

From: Brandon G. Dow [brandon@raiderenvironmental.com]
Sent: Thursday, May 13, 2010 4:01 PM
To: Winston, Kathy
Subject: Updated SPCC
Attachments: 20100513144500994.pdf

Kathy

Attached is part 1 of 2 of the updated SPCC. You will be receiving an original copy in the mail. As soon as I receive the receipts back I will forward them to you as well.

Brandon G. Dow, CHMM
General Manager
Raider Environmental Services, Inc.
(954) 325-3119 Cell
(305) 994-9949 Office
(305) 681-6175 Fax

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**Spill Prevention Control &
Countermeasures Plan (SPCC)**

CORPORATE EMERGENCY COORDINATOR

STEVE OBST – 210 Southwest 44th Ave, Plantation, FL 33317
(954) 650-6853 Cell (954) 583-0185 Home

CORPORATE BACK-UP EMERGENCY COORDINATOR

BRANDON DOW – 5238 Clover Mist Dr, Apollo Beach, FL 33572
(954) 325-3119 Cell (813) 645-7325 Home

**SPILL PREVENTION CONTROL &
CONUNTERMEASURES PLAN (SPCC)**

AND

CONTINGENCY PLAN & EMERGENCY PROCEDURES

RAIDER ENVIRONMENTAL FACILITY

4103 Northwest 132nd Street

Opa Locka, FL 33054

Location: Latitude: 25-53-41 North Longitude: 80-15-51 West

Telephone Number: (305) 994-9949

24 Hour Emergency Response Number: (954) 605-6853

Mailing Address

4103 Northwest 132nd Street

Opa Locka, FL 33054

Date of Preparation: May 2010

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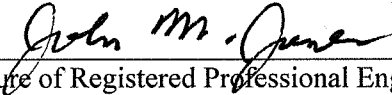
Plan No.	Entity
1	Florida Department of Environmental Protection (FDEP)
2	Miami-Dade Department of Environmental Resources Management (DERM)
3	Opa Locka Police Department
4	Miami-Dade County Police Department
5	Miami-Dade Fire Department
6	Hialeah Hospital
7	Steve Obst – Raider Environmental Services, Inc.
8	Brandon Dow – Raider Environmental Services, Inc.

PROFESSIONAL ENGINEER CERTIFICATION

I hereby certify that I have examined the Raider Services. Spill, Prevention, Control & Countermeasure (SPCC) Plan, addressing the Raider Services, Inc. facility located at 4103 NW 32nd Street, Opa Locka, Florida, and being familiar with the provisions of 40 CFR 112, attest that this SPCC Plan has been prepared in accordance with good engineering practices.

John M. Jones

Printed Name of Registered Professional Engineer


Signature of Registered Professional Engineer

May 1, 2010
Date

50227
Registration

Florida
State

Professional Engineer Seal



Spill Prevention Control & Countermeasures Plan

I. Introduction

The Raider Environmental Facility is owned and operated by Raider Environmental Services, Inc. The Facility is located at 25° - 53 - 41 North Latitude and 80° - 15 - 51 West Longitude. The Facility has a local address of 4103 Northwest 132nd Street, Opa Locka, FL 33054.

The person in charge of the Facility is **Steve Obst**. He can be reached twenty-four (24) hours a day at **(954) 605-6853**. The Facility maybe operated twenty-four (24) hours a day, seven (7) days a week as needed.

The Facility is fully permitted and licensed to handle the following:

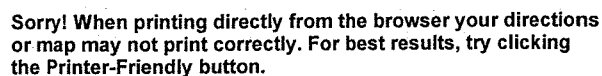
- A. Oily Wastewater Pre-Treatment Processing and Discharge to POTW
- B. Non-Hazardous Industrial Wastewater Pre-Treatment and Discharge to POTW
- C. Used Oil Transfer and Processing
- D. Used Oil Filters Transfer and Processing
- E. Non-Hazardous Solid Waste Transfer and Bulking

The site of this Facility, which covers 1.22 acres, is shown in **Figure 1**. The terrain is relatively flat throughout.

The Raider Environmental Facility has incorporated secondary containment in all areas where during normal operations there is a reasonable potential for an oily or industrial wastewater spill. Area contained are:

- A. Horizontal and Vertical Tank Farm
- B. Wastewater Pre-Treatment System
- C. Drum Bulking Area

Details of the tank sizes and contents are shown in **Table 1**.



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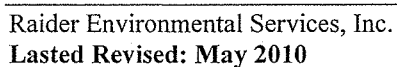
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www.LocalAdLink.com



Tank #	Date Installed	Size (Gallons)	Material of Construction	Contents
1	2007	35,000	Carbon Steel	Oily Water (Influent)
2	2007	35,000	Carbon Steel	Oily Water (Influent)
3	2007	35,000	Carbon Steel	Oily Water (Influent)
4	2007	35,000	Carbon Steel	Oily Water (Influent)
5	2007	25,000	Carbon Steel	Used Oil / Oily Water
6	2007	25,000	Carbon Steel	Used Oil / Oily Water
7	2007	25,000	Carbon Steel	Used Oil Processing Tank
8	2007	3,000	Carbon Steel	Heater Fuel (Oil)
9	2007	3,000	Carbon Steel	Used Oil / Oily Water Process Tank
10	2007	3,000	Carbon Steel	Used Oil / Oily Water Process Tank
11	2007	3,000	Carbon Steel	Heater Fuel (Diesel)
12	2007	3,000	Carbon Steel	Carbon Polishing Tank
13	2007	20,000	Fiberglass	Equalization Tank
14	2007	20,000	Fiberglass	Processed Water Tank
15	2007	20,000	Fiberglass	Final Effluent Tank

A. Spill Events

The Raider Environmental Facility was constructed in 2007 and no spill events have taken place at the Facility.

B. Prediction of Spill Behavior

A spill from any of the storage tanks would be contained in the tank farm diked area.

C. Storage Tanks

The materials and design of the storage tanks are compatible with the product they hold. A tank integrity inspection will be made on each tank daily and records will be kept of inspections in the Facility Office. Any leakage is reported and recorded.

D. Inspection Records

Inspection, their frequency and records are maintained as follows:

Inspection / Test	Frequency	Record
Tank Integrity (Visual)	Daily	Yes
Tank Supports & Foundations (Visual)	Daily	Yes
Liquid Sensing Device's	Daily	Yes
Tank Integrity (Visual)	Daily	Yes

II. Oily Wastewater and Used Oil Storage Tank Farm

The Raider Environmental Services, Inc., oily water and used oil storage tank farm is located at 4103 Northwest 132nd Street, Opa Locka, FL 33054.

All storage tanks in the tank farm have been individually inspected and repaired where applicable and evaluated for their suitability to store oily waste water and used oil from a materials point of view. In addition, containment for the storage tanks has been designed to contain the contents for the largest plus ten percent

(10%). there are no below ground tanks at the Raider Environmental Facility and there are no bypass valves used in any system that would allow an inadvertent spill outside the storage tank containment facilities.

A. Sumps

The tank farm has a concrete impervious sump which is located inside the retaining walls. Should a spill occur, the sump would be used to catch spilled materials.

B. Spill Diversion Ponds

Raider Environmental Services, Inc. does not have any diversion ponds at this Facility.

C. Retention Ponds

Raider Environmental Services, Inc. does not have any retention ponds at this Facility.

D. Sorbent Materials

See Equipment and Sorbent List

E. Spill and Rainwater Disposal

Raider Environmental Services, Inc. maintains a fleet of vacuum and pump trucks as well as mobile frac tanks and tanker trailers. Should a spill occur at our Facility this equipment would be used for recovery, storage and transportation of spilled material to an approved disposal site. Rainwater in the tank farm containment areas are visually checked for any sheen or contamination and then pumped to an oil/water separator.

1. Oil/Water Separator

Oil/water separators are devices commonly used for wastewater discharges. The effluent from oil/water separators is typically discharged to either a sanitary sewer system or a storm sewer. Properly designed, installed and operated, oil/water separators provide a treatment system for handling oily wastewater that prevents the entry of unacceptable levels of contamination to a storm sewer or sanitary sewer.

According to Stoke's Law, a 100-micron diameter oil droplet will rise approximately six (6) inches in water every ten minutes. A 20-micron oil droplet will take over two hours to rise the same distance. Because an oil droplet must rise approximately 48 inches to reach the water surface in a

typical gravity – type oil/water separator, smaller droplets may pass through uncollected. Coalescing (binding together) the smaller oil droplets makes them larger and more buoyant, causing them to rise faster. Coalescing oil/water separators may use inclined plates placed within the separation chamber, which provide only a short vertical distance (1/4") for the small droplets to travel before they encounter a fixed surface. Here they can coalesce with other droplets and continue to rise along the plates to the water's surface. Another coalescing method uses a filter made of oleophilic (oil "loving") fibers such as polypropylene. The fine oil droplets attach to the fibers as the wastewater flows through. As the droplets get larger, they become buoyant enough to detach from the fibers and rise to the surface, where they can be collected.

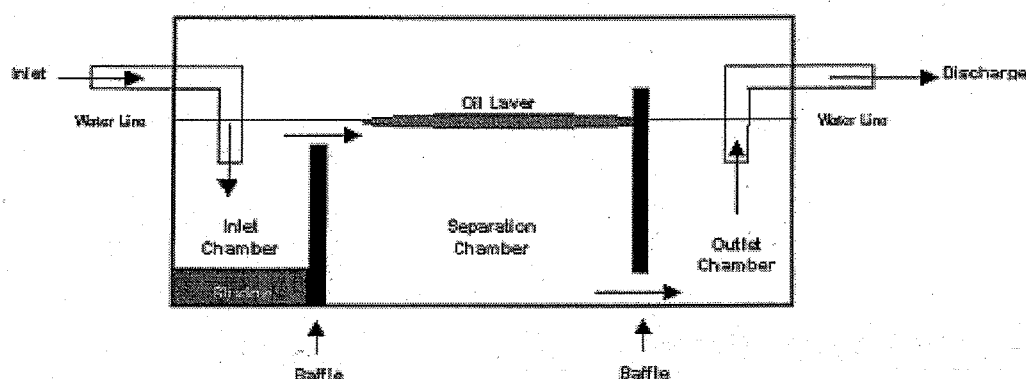


Figure 2. Conceptual Diagram of a Simple Gravity Oil/Water Separator. In a gravity operated OWS, the oil wastewater is introduced through the system inlet. Water turbulence is calmed in the inlet chamber behind the first baffle, where solids settle out and form sludge on the bottom of the chamber. As the wastewater flows over the first baffle to the middle, or separation, chamber, oil droplets rise to surface and are trapped behind a second, higher baffle, which has an opening along its edge. The remaining water passes under the second baffle into the outlet chamber, where it is diverted to a discharge point. Consequently, solid sludge's can be collected from the bottom of the inlet chamber and oil droplets that accumulate at the water's surface in the separation chamber can be skimmed off or otherwise routed to a separate holding tank.

a. Operations and Maintenance

- i. Eliminate unpermitted pollutants and prohibit discharge of wastewater from industrial operations containing hazardous wastes and heavy metals.
- ii. Implement dry cleanup procedures and only use floor drains to carry residual amounts of floating petroleum pollutants. Plug floor drains to oil/water separators that carry industrial wastewater from maintenance shops. Collect, treat and dispose of industrial waste separately.
- iii. Establish a primary office of responsibility (to include the functional organization for the management of pollutants discharged and Civil engineering for maintenance of oil/water separators) which understands and has direct control over respective functions.

-
- iv. Remove and test oil/water separator sludge regularly prior to disposal to ensure compliance with sludge disposal requirements. If sludge is hazardous, take immediate actions to identify and eliminate sources of hazardous pollutants. Dispose of sludge as a hazardous waste and retest wastewater from oil/water separator to assure compliance.

b. **General Considerations**

O/WSs are typically very simple devices. However, several factors that could potentially affect safety, efficiency and proper management must be given careful consideration prior to the installation or modification of any O/WS.

- i. **Flow Rate** – In general, the effectiveness of an O/WS in separating out the oil phase is increased by slower wastewater flow rates into the separator and longer “residence times” (i.e., the period of time that the wastewater remains in the oil/water separator). When the wastewater enters the receiving chamber of the separator, the velocity and turbulence of the fluid is reduced allowing heavier-than-water solids to settle, while larger oil droplets rise to the water’s surface. Further separation continues in the middle chamber (see Figure 2) where smaller droplets of oil rise (more slowly) to the water’s surface and join the larger droplets. The remaining wastewater, once it has passed under the second baffle to the outlet chamber, is discharged (with proper authorization and/or permitting) to a local storm water or sanitary sewer system.
- ii. **Design Capacity** – An O/WS has upper limits to the amounts of oil and sludge that can effectively accumulate while it is in operation. If too much oil accumulates in the receiving and middle chambers, it may flow into the wastewater outlet and end up being discharged to the environment. Proper O/WS design will ensure the separator capacity is sized to meet the needs of the process.
- iii. **Emulsifying Agents** – Detergents and soaps designed to remove oily grime from equipment, weapon systems, vehicles or other components can adversely affect the operation of a gravity O/WS. These types of emulsifying agents are specifically formulated to increase the dispersal of oil into tiny drops in water, which is why they are such good cleaners. When these soapy wastewaters enter the O/WS, it takes significantly longer for the oil to separate, if it can, from the water. Excessive use of detergents can render an O/WS inefficient by completely emulsifying oils into the wastewater stream and allowing it to pass through the system. Low-emulsifying soaps are available that allow oil separation to occur more quickly after the soapy water enters the O/WS. (**NOTE:** Personnel must not use low-emulsifying soaps on weapon system components)

unless they are specifically approved by the weapon system's single manager.)

- iv. **Maintenance Practices** – the ability of oil/water separators to function properly depends upon the timely performance of required service and maintenance. Oil/water separators must be monitored and maintained by competent personnel who understand how the systems operate. O/WSs should be given the same close attention given to any other important piece of equipment. The operators, users and maintainers of the O/WS must clarify who will be responsible for monitoring, inspecting, maintaining and servicing the system. Frequent inspections should be made of the system and all associated piping, valves, etc. to prevent operational and mechanical failures or inefficiencies. Sludges and oils that are not periodically removed from O/WSs can render it inoperative. Additionally, leaks from oil/water separators can result in environmental pollution, which can trigger costly investigative studies and cleanups. Rigorous implementation of an O/WS inspection and maintenance plan can prevent discharges from the oil/water separator that may contaminate the environment.

c. Oil/Water Separators Used to Meet SPCC Secondary Containment Requirements

Oil/water separators can be used to meet the SPCC requirements for secondary containment in §§ 112.7(c), 112.7(h)(1), 112.8(c)(2), 112.8(c)(11), 112.12(c)(2) and/or 112.12(c)(11). Additionally, §§ 112.8(b), 112.9(b) and 112.12(b) set forth design specifications and/or drainage associated with secondary containment provisions at the facility. Properly designed, maintained and operated oil/water separators may be used as part of a facility drainage system to meet the secondary containment requirements of the rule.

Standard gravity and enhanced gravity separators or other types of oil/water separators (separator designs may vary), may be used to meet secondary containment requirements. In this application, the separators are expected to have oil and water present in the system when there is oil discharge or oil-contaminated precipitation runoff within the drainage area. Generally, these separators should be monitored on a routine schedule and collected oil should be removed as appropriate in accordance with procedures in the SPCC Plan.

Many oil/water separators used for secondary containment are installed in areas where they may receive considerable flow from precipitation. If the flow rate exceeds the maximum design rate of the separator, the separator may discharge accumulated oil and/or untreated wastewater; therefore, it may be an inappropriate choice for

secondary containment and may result in a discharge to navigable waters and adjoining shorelines. The specifications from the oil/water separator manufacturer outline these and other design factors as important items to consider when specifying the use of a given oil/water separator for a given application. Additionally, the manufacturer specifies the maintenance requirements for these separators that would ensure proper operation of these devices.

When oil/water separators are used to meet SPCC requirements they must be properly operated and maintained to ensure that the unit will perform correctly and as intended under the potential discharge scenarios it is aimed to address (e.g., §§ 112.7(c), 112.8(c)(2) and 112.12(c)(2)). The required oil/water separator capacity should always be available (i.e., oil should not continually accumulate in the separator over a period of time such that the required storage capacity would not be available if an oil release were to occur within the drainage area). The use of oil/water separators as a method of containment may be risky as they have limited drainage controls to prevent a discharge of oil and rely heavily on proper maintenance.

The capacity of an oil/water separator used to meet secondary containment requirements does not count toward a facility's overall storage capacity. Any volume of oil that would flow into the oil/water separator would come from another source within the drainage area that is already generally counted in the facility storage capacity determination. Containers used to store recovered oil after oil/water separation, however, represent additional oil storage and count toward a facility's total storage capacity. These include slop tanks or other containers used to store waste.

F. Visual Inspection

All storage tanks, foundations will be visually inspected by operating personnel as a part of everyday operations. Upon first indication of any degradation the necessary and appropriate action will be taken to correct the problem. Records of visual inspections will be maintained both at the Facility and communicated to line management for review and incorporated in the operating file.

G. Safe Vehicle Operation

Operators of vehicles entering the facility will have been trained in safe vehicle operation and have experience at other similar operating tank farms. Warning signs will be posted where appropriate.

H. Operation On-Call Status

The Facility is fully fenced and gates are locked during off hours. Operations personnel are maintained in an On-Call status in the event they are needed to respond to any condition requiring their response.

I. Daily Inspection

All storage tanks, piping, joints, valve and bodies will be visually inspected by plant employee's as they pursue their daily work. Any and all discrepancies will be reported immediately to their supervisor. Additionally, an entry will be made in the record of any discrepancy and the corrective action taken.

III. Security At Facility

Raider Environmental Facility is fully fenced and the entrance gates are locked when the Facility is not in use or unattended. The Miami-Dade County Police Department and Opa Locka Police Department patrols the Facility twenty-four (24) hours a day, seven (7) days a week.

Facility lighting is maintained and changes made where applicable to enhance visibility during hours of darkness for discovery of spills and to prevent spills by acts of vandalism.

IV. Spill Response

Should a spill happen at Raider Environmental Services, Inc.'s Facility, the Qualified Individual (Primary Emergency Coordinator) or Alternate Qualified Individual (Back-Up Emergency Coordinator) will initiate the following: (See Page for Contact Information)

A. Emergency Spill Response Procedure

Immediate steps for Drivers and Facility Technicians:

- ✚ Stay with the vehicle until help arrives
- ✚ Use emergency numbers in spill plan to contact Line Management
- ✚ Keep the public away
- ✚ Dike off or use boom to keep liquids from entering sewers, storm sewers or water ways, follow emergency plans for further containment.

B. Emergency Response Plan

This practical emergency response plan is designed to provide a guide to appropriate actions in the event of a spill. The most important thing to

remember is to remain calm and try to get the situation under control as soon as possible.

- ✦ Don not panic, remain calm. If you or anyone else is hurt or incapacitated, call for medical assistance.
- ✦ Evaluate the degree of contamination to the Facility and estimate the number of gallons spilled.
- ✦ Pump liquid back into one of the standby storage tanks.

Do your best to dike ahead of the spill to prevent oil from entering sewers and water ways.

Spill Containment Procedures

Spills on Pavement:

Call for booms and pads in amounts' appropriate for the spill. Use booms to contain spill. Use a vacuum truck to skim and remove oil. If the spill is too large for booms:

- ✦ Call for sorbents and sand to contain the spreading oil or by using oil dri to circle the spill.
- ✦ Call for a vacuum truck, visqueen and backhoe. Remove oil-soaked sand and place on plastic visqueen and cover sand with additional visqueen to prevent rain from spreading the oil. Steam or pressure wash the pavement or concrete to remove residue.

Spills on Soil:

Call for earth moving equipment (loader, backhoe, dump truck, etc.) and sand. Determine direction of oil flow and excavate an area for the oil to flow into. Around the spill contain oil with sand berm. Pump liquid oil to vacuum trucks. Prepare a plastic tarp and sand berm on an area of clean ground. Remove oil soaked soil to visqueen while making sure that soil is contained by visqueen and berm. Have the backhoe remove one foot below the surface spill, or until visually clean. Call for further assistance to remove soil for treatment. Also, use OVA meter and analysis to determine if further removal is required.

Removal of Oil soaked Sorbent Material:

Place oil used sorbent material in double, heavy gauge plastic bags. Management will have these picked-up and legally disposed of at an appropriate disposal Facility. Do not make bags heavier than approximately forty (40) pounds each.

V. Security at Spills

During a large oil spill when thousands of dollars of clean up equipment is in use or stored at various locations throughout the clean-up area, one must establish security over this equipment during the very early stages of the spill. Some of the steps that can be taken to reduce theft and vandalism are shown in the checklist below:

- ✦ Contact a security company to provide guards where equipment is being stored or maintained. Make sure these guards can communicate with the Command Center at all times.
- ✦ Contact a fence company to provide fenced security areas for equipment.
- ✦ Local police departments can help in providing security, with off duty officers.
- ✦ Establish equipment and clothing distribution areas so personnel and equipment can be checked in and out.
- ✦ To ensure secure operations, provide guards with toilets and waste disposal facilities in the decontamination and food serving areas.
- ✦ Establish first aid kits or first aid facilities throughout the clean-up area. Consider hiring off duty nurses to attend to general first aid treatment cases. They would also be qualified to determine when and if a person required additional or more intense medical treatment.
- ✦ Provide lighting for security, decontamination and equipment storage areas. Make sure that clean-up contractors and other involved personnel are provided adequate lighting at night.
- ✦ Issue temporary identification badges to all personnel involved in the clean-up operation. Insure custody control procedures are established for I.D. Badges, so they will not fall into the wrong hands.
- ✦ As soon as possible, establish a claims office to handle the daily complaints for shoreline damage, boat damages and many other claims which are made during the spill. This claims office should be near the spill site, but NOT near the command center.
- ✦ Establish a "Right Away" person who can make arrangements to access private property to support the clean-up.
- ✦ Establish sign out and return procedures for tools and consumables.
- ✦ Establish a key person to monitor all contractor activities regarding people, equipment in use and hourly accounting.
- ✦ Assign security personnel to report safety infractions in the work place directly to the OSC at the Command Center.

Note: It is very important that adequate communications equipment is readily available for security and related operations.

VI. Materials

Item	Size	Count	Quantity	Location
Pads	17"x19"x3/8"	100pads/bale	20	Supply Cage
Boom	10'x8'	4boom/bale	10	Trailer
Boom	10'x5'	4boom/bale	5	Trailer
Rug	36"x300'	1rug/bale	2	Trailer
Rug	18"x30'	2rug/bale	2	Trailer
Pads	18"x18"	100pads/bale	1	Supply Cage
Pillows	9"x15"	16pillows/bag	2	Trailer
Snare		10/box	5	Trailer
Visqueen	20'x100'	1/roll	5	Supply Cage
Plastic Bags	33"x60"	75bags/roll	10	Supply Cage

VII. Personnel Training and Drills

Operating personnel will be instructed in the proper operation and maintenance of equipment to prevent the discharge of oil and applicable pollution control rules and regulations.

Operating personnel will receive spill prevention briefings at intervals frequent enough to assure adequate understanding of this SPCC Plan.

The training of all appropriate personnel in the prompt and effective response to an oil spill incident is an important aspect of Raider Environmental Services oil spill preparedness. Training is intended to assure that all personnel clearly understand the contents of this plan and their respective roles. Personnel also receive periodic familiarization training on the plan and training commensurate with their responsibilities to prepare them in carrying out their job responsibilities in a prompt and efficient fashion.

Since Raider Environmental Services also offers a contract service of twenty-four (24) hour spill response, all personnel receive invaluable on the job training responding to real spill events. This practical application of oil spill mitigation techniques supplements the OSHA mandated HAZWOPER training.

VIII. Facility Emergency Response Plan

Name of Facility: Raider Environmental Services, Inc.

Type of Facility: Oily Waste Water Processing Plan

Location of Facility: 4103 Northwest 132nd Street, Opa-Locka, FL 33054

Name and Address of Owner:

Name: Steve Obst

Address: P.O. Box 19645, Plantation, FL 33318

Person accountable for spill prevention, emergency procedures, reporting and employee training:

Name: Brandon Dow

Title: Vice-President

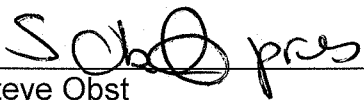
Name and Address of Emergency Coordinators"

Primary Emergency Coordinator: Steve Obst
210 Southwest 44th Ave, Plantation, FL 33317

Alternate Emergency Coordinator: Brandon Dow
5238 Clover Mist Dr., Apollo Beach, FL 33572

Management Approval

The individual designated as Emergency Coordinators in the absence of the Emergency Coordinator are authorized to commit the resources needed to carry out this plan.



Steve Obst
President

A. Review and Update

This Contingency Plan will be reviewed and immediately amended, if necessary, whenever:

- ✦ Applicable regulations are revised;
- ✦ The Plan fails in an emergency;
- ✦ The Facility changes in its design, construction, operation, maintenance or other circumstances, in a way that materially increases the potential for fires, explosions, releases of used oil or changes in the response necessary in an emergency;
- ✦ The list of emergency coordinators changes; and
- ✦ The list of emergency equipment changes.

B. Emergency Response Arrangements

Fire Department: Miami-Dade Fire Department
Emergency Response Arrangements:
Personnel from the responding station toured Raider Environmental Services Facility and are acquainted with the Facility operations and layout. The fire station has a key to the fire box located at the entrance gate.

Police Department: Miami-Dade Police Department
Emergency Response Arrangements:
Uniformed personnel have been acquainted with the Facility layout and are familiar with the operations. Police personnel would assume charge of any traffic control issues that should arise in the event of an emergency.

Hospital: Hialeah Hospital
Emergency Response Arrangements:
Telephone conversations have been conducted with hospital representatives confirming the purpose of the contingency plan and the potential hazards associated with Raider Environmental Services processes. Copies of the material safety data sheets for chemicals used in Raider Environmental Services processes are included in the hospital copy of the contingency plan.

C. Emergency Procedure – Responsibilities of the Emergency Coordinator of Designee

1. **Activate** Raider Environmental Services Facility alarm/communication system to notify all Facility personnel by:
 - a. Notify Facility personnel by word of mouth
2. **Notify** appropriate State or Local Agencies with designated response roles if their help is needed. In the case of fire or explosion:
 - a. Pull fire alarm pull switch for Plant alarm system. This will notify Plant personnel as well as notify the Alarm Company.
 - b. Call 911 to notify the Fire Department.
3. **Identify** the character, exact-source, amount and extent of any released material. This may be done by observation, review of Facility records and/or chemical analysis.
4. **Access** possible hazards to human health or the environment that may result from the release, fire or explosion. This assessment must consider

both direct and indirect effects of the release, fire or explosion. If assessment indicates that evacuation of local areas may be advisable, immediately notify appropriate authorities. Be available to help local authorities decide whether local areas should be evacuated.

5. **Notify** immediately the government official designated as the On-Scene Commander of the National Response Center using their twenty-four (24) hour toll free number (800) 424-8802. The report must include:
 - a. Name and telephone number of person reporting;
 - b. Name and address of the Facility
 - c. Time and type of incident (release, fire, etc.)
 - d. Name and quantity of material(s) involved;
 - e. The extent of injuries, if any; and
 - f. The possible hazards to human health, the environment or outside the Facility.
6. **Take** all responsible actions necessary to ensure that releases, fires and explosions do not occur, recur or spread to other oil or waste at the Facility.
7. **After** the emergency is over, provide for the recycling, storing or disposal facility of the recovered materials or materials that result from the release, fire or explosion. In affected area(s) of the Facility make sure that no waste or used oil that may be incompatible with the released material is recycled, treated, stored or disposed of until the clean-up procedures are completed. All emergency equipment listed in this contingency plan need to be cleaned and fit for its intended use before operations are resumed.
8. **Notify** the Regional Administrator and appropriate State and Local Authorities that the Facility is in compliance with 40 CFR Part 279.52 before resuming operations in the affected area(s) of the Facility.
9. **Note** in the operating record the time, date and detail of any incident that requires implementing this Contingency Plan.
10. **Submit** a written report within fifteen (15) days after the incident to the Regional Administrator. The report must include:
 - a. Name, address and telephone number of the Owner or Operator;
 - b. Name, address and telephone number of the Facility;
 - c. Date, time and types of incident (release, fire, etc.)
 - d. Name and quantity of materials involved;
 - e. The extent of injuries, if any;
 - f. An assessment of actual or potential hazards to human health or the environment, where applicable; and

-
- g. Estimated quantity and disposition of recovered material that resulted from the incident.

D. Requirements for Notification

1. Name and telephone number of person making notification.
2. Name and address of the Facility.
3. Type and time of incident.
4. Name and quantity of materials involved.
5. The extent of injuries, if any.
6. The possible hazards to human health, the environment or outside the Facility.
7. The name and telephone number of the person or persons to be contacted for more information. List on Page
8. Wait for the other party to hang up, **do not hang up first.**

E. Emergency Contact Phone Numbers

Miami-Dade County Fire Department	Emergency	911
	Local	(786) 331-4259
Miami-Dade County Police Department	Emergency	911
	Local	(305) 476-5423
Opa-Locka Police Department	Emergency	911
	Local	(305) 476-5423
Medics Ambulance Service	Emergency	911
	Local	(305) 687-4040
Hialeah Hospital	Local	(305) 693-6100
National Response Center		(800) 424-8802
US EPA – Region IV		(404) 562-8357
Florida Department of Env. Protection	Emergency	(800) 320-0519
	Local	(561) 681-6600
Dade County Env. Resource Mgmt.		(305) 372-6789
Chemtrec		(800) 424-9300
U.S. Coast Guard		(305) 535-8705

F. Raider Environmental Services, Inc. Emergency Phone List



COMPANY PHONE LIST

Name	Title	Home	Cell	Radio
Argon, Vicente	Field Tech		(954) 325-2691	
Armstrong, Louis	Driver - B	(954) 486-6413	(954) 448-6351	159*53824*1
Betacourt, Joey	Driver - A	(786) 718-5782	(954) 931-8821	159*53824*8
Bleatu, JP	Sales - Miami		(954) 465-0504	
Bloom, David	Sales - Tampa		(727) 479-7414	
Callison, Jim	U/O Driver - Tampa	(772) 332-7100	(941) 232-8085	159*53824*7
Carter-Klein, Judy	Billing	(954) 903-0799	(954) 401-2309	
DePeralta, Jorge	Driver - A		(954) 914-5020	159*53824*154
Dow, Brandon	General Manager	(813) 645-7325	(954) 325-3119	
Machado, Susan	U/O Driver - Tampa			
Machado, Tony	U/O Driver - Tampa		(941) 961-9862	
Moya, Alex	Driver - B		(754) 224-8327	159*53824*6
Newman, Robert	Driver - A		(813) 352-7902	
Obst, Steve	Owner	(954) 583-0185	(954) 605-6853	
Obst, Tavia	Office Manager	(954) 583-0185	(954) 914-8414	159*53824*10
Sananta, Lazaro	Plant Tech			
Sananta, Rudy	U/O Driver - Miami		(305) 345-4199	158*30*8447
Stanley, Louis	Driver - B	(305) 331-2009	(954) 605-3882	158*41152-19
Tamayo, Mario	Driver - A	(941) 623-5849	(954) 275-1778	
Weiters, Mike	U/O Driver - Tampa	(941) 445-5183	(941) 232-8047	159*53824*5

IX. General Responsibilities

A. Personnel Assignments

1. Emergency Coordinator
 - Steve Obst – Leader
 - Brandon Dow – Back-Up
2. Communications
 - Brandon Dow – Leader
 - Steve Obst – Back-Up
3. Evacuation
 - Brandon Dow – Leader
 - JP Bleatu – Back-Up
4. Emergency Situation
 - Emergency Assessment
 - i. Brandon Dow – Leader
 - ii. Steve Obst – Back-Up
 - Spill Containment
 - iii. Steve Obst – Leader
 - iv. Brandon Dow – Back-Up
5. Emergency Team
 - Fire Fighting & Spill Containment
 - v. Steve Obst & Brandon Dow
6. First Aid
 - Steve Obst & Brandon Dow

B. Emergency Procedures & Actions

In the event of an emergency situation the emergency coordinator must be notified immediately. If the emergency coordinator cannot be contacted, secondary contacts are provided, see Appendix A of this attachment.

The emergency coordinator will act according to the following procedures:

1. Determine the nature of the emergency; fire, explosion potential, or spill. Identify the source.
2. The Emergency Response Coordinator (ERC) will conduct the response from the primary Emergency Operations Center (EOC) or Command Post. The primary Command Post is located in the main operations building conference room. The laboratory is designated as the alternate Command Post.
3. Determine whether help is required from outside agencies. Call and inform agencies of the situation and solicit their help if necessary.

If the emergency is within the company's scope of service to respond – in-house personnel will be directed for cleanup. If the emergency is beyond the facility's capability, spill containment procedures will be implemented and the proper authorities notified for response.

4. Determine the nature and quantity of materials involved by:
 - i. physical observation/label identification
 - ii. inventory records
 - iii. chemical analysis and/or material profiles
5. Decide what should be done immediately to keep the situation from worsening:

- a. Explosion Hazard

Determine whether any reactive substances in the area need to be relocated. If explosion has occurred which does not result in a fire, remove any hazardous obstacles that can be safely retrieved.

b. Spill

If a spill has occurred; determine the source, contain it by using the emergency equipment and absorbent material and initiating any product transfers that may be deemed necessary to minimize the spill.

Obtain the following information:

- a) the material released
- b) location of the material
- c) quantity of material released
- d) any injury from the release

c. Fire Hazard

If fire has occurred, use the fire extinguishers to control the fire, if possible. Do not attempt to control a blaze that appears to be out of control; rely on the proper authority response. Ensure that all storage areas are accessible to fire fighters. If a fire should break out, concentration will be placed on preventing the fire from spreading. The emergency coordinator will monitor for leaks and pressure build-up while awaiting the proper fire-fighting agency.

d. Inclement Weather

In the event of inclement weather (hurricane, electrical storm, tornado), the Emergency Coordinator will make the assessment of the danger.

If the assessment is severe, the Emergency Coordinator will notify the Communications Leader to cancel the work day. If the assessment is not severe, operations may simply be suspended until the storm passes. The emergency coordinator will give a verbal "All Clear" to employees once the inclement weather had passed. This covers incidents such as thunder storms and sporadic heavy rains which interfere with safe operations. During these times, shelter will be sought in the Facility and offices.

If the work day has not started, the Communication Leader will call the Facility personnel and inform them and then call the main office and inform them.

If the work day is already underway, the Communication Leader will inform the Facility to shut down all operations and then call the main office and inform them.

i. Natural Disaster

As soon as a dangerous situation is assessed, the Emergency Coordinator will be notified. The Emergency Coordinator will decide from the severity of the danger whether to remain in the office or to evacuate.

If evacuation is necessary, then the Emergency Coordinator will announce this to the Communication Leader and/or to the Evacuation Leader. The office will evacuate through the evacuation routes. Evacuation will be done in an orderly manner to the southeast corner of the warehouse and everyone will remain in the southeast corner of the warehouse until the danger has passed.

If the imminent danger does not permit for evacuation, try to inform the Emergency Coordinator, search for an inside corner of a wall away from glass windows and product storage and remain there in a sitting position until the danger has passed.

ii. Hurricanes

All items which are not securely anchored will be moved into the warehouse. These include empty and full containers, all hoses and fittings, wall mounted fire extinguishers units, forklifts, pallets and all other loose objects around the Facility. All empty trailers are to be moved as far away the building as possible. This includes all bulk trailers, box trailers and drum trailers. Secure all plywood sheets and lag bolt into the walls effectively covering window and door openings.

Move as much equipment as possible above ground floor level. An ideal height for water sensitive items is five (5) feet. All mats, antennas or other high flying apparatus should be dismantled and lowered to ground level. Any removable parts should be placed inside the main building warehouse.

All vertical storage tanks should be filled with at least three (3) feet of product or water to keep tanks from lifting off their foundations should the storm-water in the secondary containment area rise a couple of feet during storm.

e. Evacuation Procedure

i. Purpose

Plan for a safe evacuation of an emergency

ii. Responsibilities

The Emergency Coordinator is responsible for implementing the evacuation procedure.

Each employee is responsible for escorting any visitors from his/her work area to the proper exit.

iii. Procedures

The Emergency Coordinator will notify Management in the event an evacuation becomes necessary.

The Emergency Coordinator will order the evacuation and any other actions required.

When an evacuation is announced, stop work. Exit your work area in accordance with the evacuation routes. All employees must leave the Facility unless instructed otherwise by the Emergency Coordinator. Do not run and do not linger in the hallways or doorways.

Each employee must report to his/her Manager once outside the Facility and each Manager must report to the Emergency Coordinator. All personnel must be accounted for.

The Emergency Coordinator will notify the Managers when it is safe to re-enter the Facility. All employees will stay outside the Facility until notified by the Manager it is safe to re-enter.

f. All Clear

i. Before the facility may be brought back into production following an emergency event, the emergency coordinator must:

Have the facility declared safe for re-entry by any outside organizations responding.

All involved materials must be accounted for and properly stored.

Emergency equipment has been cleaned and is ready for use

NOTE: In the event of an emergency all personnel will discontinue any telephone conversations. Personnel escorting visitors must accompany the visitor to the nearest safe exit. All workstations will be shutdown.



Facility Response Plan

CORPORATE EMERGENCY COORDINATOR

STEVE OBST – 210 Southwest 44th Ave, Plantation, FL 33317
(954) 650-6853 Cell (954) 583-0185 Home

CORPORATE BACK-UP EMERGENCY COORDINATOR

BRANDON DOW – 5238 Clover Mist Dr, Apollo Beach, FL 33572
(954) 325-3119 Cell (813) 645-7325 Home

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Facility Response Plan

I. Introduction

This Facility Response Plan (FRP) is designed to minimize hazards to human health and the environment created by spills involving petroleum oily and oily waste water. The Plan designates responsibilities and procedures for a proper response to spill events. Implementation of the plan will be required wherever there is a spill and to prevent the spill from reaching navigable waterways and to ensure that the cause of the spill is corrected.

Ultimately, the purpose of the FRP is to plan and prepare for the response and impact of a potential spill.

II. Facility Information

Name of Facility: Raider Environmental Services, Inc.

Street Address: 4103 Northwest 132nd Street

City: Opa Locka

County: Miami-Dade

State: Florida

Zip Code: 33054

Telephone: (305) 994-9949

Fax: (305) 681-6175

Facility Owner: Steve Obst

Mr. Obst has received the OSHA 40-Hour HAZWOPER training and the annual 8-Hour HAZWOPER Refresher training each year and has over ten years' experience.

Owner Address: 210 Southwest 44th Avenue, Plantation, FL 33317

Owner Telephone: (954) 583-0185

24 Hour Contact: (954) 605-6853

III. Emergency Response Actions

Notification Procedures

In the event of a spill the following Raider Environmental Services personnel will be notified in the order listed below:

- A. Qualified Individual: Steve Obst (954) 605-6853 C / (954) 583-0071 H
- B. Alt Qualified Individual: Brandon Dow (954) 325-3119 C / (813) 645-7325 H
- C. Facility Response Personnel: See Attached List on Page 5
- D. Oil Spill Removal Organization: Raider Environmental Services (305) 994-9949
- E. Federal, State and Local Agencies:
 - 1. Fire Department: 911
 - 2. National Response Center: (800) 424-8802
 - 3. DEP State Warning Point: (800) 320-0519
 - 4. DERM: (305) 372-6789
 - 5. U.S. Coast Guard: (305) 535-8705

IV. Spill Mitigation Procedures

Raider Environmental Services has a fleet of vacuum trucks and tankers. The largest tanker will never be loaded with more than 7,000 gallons. Discharge calculations are based on these figures:

Discharge Type:	Oily Water (Slop Oil)
Average Most Probable Scenario:	70-gallons (1% of largest tank)
Maximum Most Probable Scenario:	700-gallons (10% of largest tank)
Worst Case Scenario:	7,000-gallons (100% of largest tank)

This section outlined below describes in detail Raider Environmental Services Facility Personnel procedures:

- A. Hose Failure
 - 1. Stop the transfer operation
 - 2. Disconnect and remove the hose (if safe)
 - 3. Notify a co-worker and shop personnel
 - 4. Notify the Operation Manger for mobile response team activation

-
5. Place absorbent pads on and around the spill
 6. If feasible, use a vacuum truck to collect the spill product

B. Tank Overfill

1. Stop the transfer operation
2. Notify a co-worker and shop personnel
3. Notify the Operation Manager for mobile response team activation
4. Place absorbent pads on and around the spill
5. If feasible, use a vacuum truck to collect the spill product

C. Tank Failure

1. Stop the transfer operation
2. Stop flow (if possible)
3. Notify a co-worker and shop personnel
4. Notify the Operation Manager for mobile response team activation
5. Place absorbent pads on and around the spill
6. If feasible, use a vacuum truck to collect the spill product

D. Explosion or Fire

1. Stop the transfer operation
2. Notify a co-worker and shop personnel
3. Notify the Operation Manager for mobile response team activation
4. Attempt fire-fighting with fire extinguisher (if safe)
5. Place absorbent pads on and around the spill

E. Equipment Failure (Pumping System Failure, Relief Valve Failure)

1. Stop the transfer operation
2. Notify a co-worker and shop personnel
3. Notify the Operation Manager for mobile response team activation
4. Place absorbent pads on and around the spill

V. Response Activities

A. Facility Personnel Responsibilities

1. Stop the transfer operation
2. Notify a co-worker and shop personnel
3. Notify the Operation Manager for mobile response team activation
4. Place absorbent pads on and around the spill

B. Qualified Individual and Alternate Qualified Individual Responsibilities

1. Activate Raider Environmental Service spill team which will be the Qualified Individual (Steve Obst) and the Alternate Qualified Individual (Brandon Dow)
2. Act as liaison with the Federal and State On-Scene Coordinators

C. Primary Response Contractor

1. Raider Environmental Service 24-Hour phone number is (954) 605-6853
2. It has the resources and personnel needed to respond to the spill scenario listed below:
 - i. Average Most Probable Discharge Scenario (70-gallons)
 - ii. Maximum Most Probable Discharge Scenario (700-gallons)
 - iii. Worst Case Discharge Scenario (7,000-gallons)

VI. Disposal Plan

Raider Environmental Services owns and operates its own wastewater / oil recovery systems located at 4103 Northwest 132nd Street, Opa Locka. Wastewater is processed and discharged in accordance with applicable permits issued by FDEP. These permits are located at the Corporate Office located at the same location as the Facility. The oil is processed and sold as an on-specification fuel to approved used oil burners.

VII. Training & Exam

Raider Environmental Services regularly participates in annual spill and fire drills.

VIII. Plan Review & Update Procedures

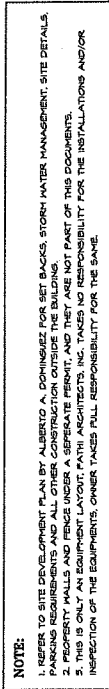
The Facility Response Plan (FRP) is reviewed yearly for personnel and equipment changes.



COMPANY PHONE LIST

Name	Title	Home	Cell	Radio
Argon, Vicente	Field Tech		(954) 325-2691	
Armstrong, Louis	Driver - B	(954) 486-6413	(954) 448-6351	159*53824*1
Betacourt, Joey	Driver - A	(786) 718-5782	(954) 931-8821	159*53824*8
Bleatu, JP	Sales - Miami		(954) 465-0504	
Bloom, David	Sales - Tampa		(727) 479-7414	
Callison, Jim	U/O Driver - Tampa	(772) 332-7100	(941) 232-8085	159*53824*7
Carter-Klein, Judy	Billing	(954) 903-0799	(954) 401-2309	
DePeralta, Jorge	Driver - A		(954) 914-5020	159*53824*154
Dow, Brandon	General Manager	(813) 645-7325	(954) 325-3119	
Machado, Susan	U/O Driver - Tampa			
Machado, Tony	U/O Driver - Tampa		(941) 961-9862	
Moya, Alex	Driver - B		(754) 224-8327	159*53824*6
Newman, Robert	Driver - A		(813) 352-7902	
Obst, Steve	Owner	(954) 583-0185	(954) 605-6853	
Obst, Tavia	Office Manager	(954) 583-0185	(954) 914-8414	159*53824*10
Sananta, Lazaro	Plant Tech			
Sananta, Rudy	U/O Driver - Miami		(305) 345-4199	158*30*8447
Stanley, Louis	Driver - B	(305) 331-2009	(954) 605-3882	158*41152-19
Tamayo, Mario	Driver - A	(941) 623-5849	(954) 275-1778	
Weiters, Mike	U/O Driver - Tampa	(941) 445-5183	(941) 232-8047	159*53824*5

N.T.S.



LEGAL DESCRIPTION:

EXHIBIT "B" (GRANTEE'S PROPERTY)

A PORTION OF THE 1/4 OF SECTION 29, TOWNSHIP 52 SOUTH, RANGE 41 EAST, DADE COUNTY, FLORIDA BEING PARTICULARLY DESCRIBED AS EC 1 COW.

COMMENCE AT THE CENTER OF SAID SECTION 28, THENCE NORTH 60°24'27" EAST, ALONG THE WEST BOUNDARY OF SAID SECTION 28 FOR A DISTANCE OF 150.00 FEET TO A POINT OF INTERSECTION WITH THE WESTERLY PRODUCTION OF THE NORTH RIGHT-OF-WAY BOUNDARY OF NE 1/4 OF SAID SECTION 28 FOR A DISTANCE OF 150.00 FEET TO A POINT OF INTERSECTION WITH THE WESTERLY PRODUCTION OF THE NORTH RIGHT-OF-WAY BOUNDARY OF NE 1/4 OF SAID SECTION 31 OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA, THENCE NORTH 88°40'28" EAST, ALONG THE WESTERLY PRODUCTION A DISTANCE OF 400.00 FEET TO A POINT, THENCE NORTH 89°00'00" EAST, ALONG A LINE PARALLEL TO THE WEST BOUNDARY OF THE NE 1/4 OF SAID SECTION 28, A DISTANCE OF 200.00 FEET TO THE POINT OF BEGINNING, THENCE NORTH 88°40'28" EAST, ALONG A LINE PARALLEL TO THE NORTH RIGHT-OF-WAY BOUNDARY OF NE 1/4 OF SAID SECTION 28, A DISTANCE OF 259.83 FEET TO A POINT, THENCE NORTH 89°00'00" EAST, ALONG A LINE PARALLEL TO THE WEST BOUNDARY OF THE NE 1/4 OF SAID SECTION 28, A DISTANCE OF 200.00 FEET TO A POINT, THENCE NORTH 88°40'28" EAST, ALONG A LINE PARALLEL TO THE WEST BOUNDARY OF THE NE 1/4 OF SAID SECTION 28, A DISTANCE OF 200.00 FEET TO THE POINT OF BEGINNING.

On March 19, 1968, the defendant, who is now residing in the Federal House of Detention in New York City, was interviewed by the New York City Police Department. He stated that he was born on March 1, 1934, in New York City, and that he is currently residing at 1234 5th Avenue, New York City. He stated that he has been married for 15 years and has two children. He stated that he has been employed as a construction worker for the past 10 years. He stated that he has been arrested on several occasions for various offenses, including possession of a controlled substance and assault. He stated that he has been convicted of several offenses, including possession of a controlled substance and assault. He stated that he has been sentenced to several terms of imprisonment, including 15 months and 30 days. He stated that he has been released from prison on several occasions, including on parole and probation. He stated that he has been employed as a construction worker for the past 10 years. He stated that he has been arrested on several occasions for various offenses, including possession of a controlled substance and assault. He stated that he has been convicted of several offenses, including possession of a controlled substance and assault. He stated that he has been sentenced to several terms of imprisonment, including 15 months and 30 days. He stated that he has been released from prison on several occasions, including on parole and probation.

DATE	12/02/08
SCALE	AS SHOWN
DRAWN	RLR
CHECKED	AF
CONSTRUCTION NO.	8008

A-O

PROPOSED WAREHOUSE FOR:
RAIDER ENVIRONMENTAL SERVICES, INC.
4103 N.W. 132ST.
OPA-LOCKA, FLORIDA

OWNER:
MR. STEVE OBST

ADDRESS:
4401 PETERS RD
PLANTATION, FL

PHONE:
305 494 4544

CONSENT

FATHI ARCHITECTS, INC.
18 000101
ARCHITECTS
PLANNERS
DESIGNERS
10000101
www.fathiarchitects.com
FAX: (854) 792-6210
TEL: (854) 792-6210
SUITE 205 OAKDALE DRIVE
OAKDALE, FL 33445

Part A: Discharge Information

General information when reporting a spill to outside authorities:

Name: Raider Environmental Services, Inc.

Address: 4103 NW 132nd Street
Opa Locka, Florida

Telephone:

Owner/Operator:

Primary Contact:

Type of oil:

Discharge Date and Time:

Quantity released:

Discovery Date and Time:

Quantity released to a waterbody:

Discharge Duration:

Location/Source:

Actions taken to stop, remove, and mitigate impacts of the discharge:

Affected media:

air

storm water sewer/POTW

water

dike/berm/oil-water separator

soil

other: _____

Notification person:

Telephone contact:

Business:

24-hr:

Nature of discharges, environmental/health effects, and damages:

Injuries, fatalities or evacuation required?

Part B: Notification Checklist

Date and time

Name of person receiving call

Discharge in any amount**Discharge in amount exceeding 10 gallons and not affecting a waterbody or groundwater**Florida Department of Environmental
Protection

Southeast District

401 North Congress Avenue
West Palm Beach, FL 33401

<i>Discharge in any amount and affecting (or threatening to affect) a waterbody</i>		
National Response Center (800) 424-8802		
POTW Plant Operator		
Drinking Water Plant Plant Operator:		

* The POTW should be notified of a discharge only if oil has reached or threatens sewer drains that connect to the POTW collection system.

RAIDER ENVIRONMENTAL SERVICES, INC. - FLEET INFORMATION

Raider - ID	Year	Make/Model	VIN	Plate	GVWR	Front Tire	Rear Tire	Reg. Due	DPEP #	Capacity	Notes
3	2003	Compressor	23276	N/A	N/A	N/A	20577S-15	N/A	N/A	N/A	
33		Flatbed Trailer w/ramps	4MND222261002421		12000	N/A	20577S-15	N/A	N/A	6 tons	
Raider - ID	Year	Make/Model	VIN	Plate	GVWR	Front Tire	Rear Tire	Reg. Due	DPEP #	Capacity	Notes
4	2001	GMC W4500 Box Truck	J8DC4B14817012385	720WKA	14,500	LT215/85R16	LT215/85R16	Dec-10	N/A	N/A	Camera Truck
15	2005	Kenworth Box Truck	2NKM4H73X05M088929	N3788E	33,000	295/75R22.5	295/75R22.5	Dec-10	3310	N/A	West Coast
27	2009	Dodge Ram 1500	1D3HB13P69S756498	ACZ2230	3,300	275/60R20	275/60R20	Jun-10	N/A	N/A	
28	2006	Ford 250	1FTSW21P98EA81851	R865MI	10,000	265/70R17	265/70R17	Dec-10	N/A	N/A	
29	2006	Ford Crew Cab 350	1FDWW36P36EB43188	X566AG	13,000	LT285/80R17	LT285/80R17	Dec-10	N/A	N/A	
51	2010	Ford F-150	1FTMF1CW0AKB23812	723XUW	6,450	P235/70R17	P235/70R17	Jun-11	N/A	N/A	
53	2010	Toyota FJ Cruiser	JTEJ44BF9AK009401	102VET	5,330	LT285/75R16	LT285/75R16	Jun-11	N/A	N/A	
54	2004	Nissan UD 24' Flatbed	JNAPA43H44AN75662	146YOV							
56	2004	Nissan UD 26' Box Truck	JNAPA43H414AN73649	147YOV				Jun-11	N/A	N/A	
Raider - ID	Year	Make/Model	VIN	Plate	GVWR	Front Tire	Rear Tire	Reg. Due	DPEP #	Capacity	Notes
2		Freightliner Pump truck	1FU6HFA44RL592029	N2772K	34,999	11R/22.5	11R/22.5	Dec-09	3786		Out of Service - Opa-Locka
5	1997	Freightliner Pump truck	1FU6HLA4ABUH827625	N9534L	33,000	295/75R22.5	295/75R22.5	Dec-09		3,000 g	Used Oil - West Coast
7	2001	Peterbilt Vac Truck	1NPAL60X1N1569948	N4528L	66,000	425/65R22.5	11R/22.5	Dec-10	2124	4,000 g	
16	1999	Ford Vac Truck	1FDYY83A4KVA59487	N5345H	24,999	11R/22.5	11R/22.5	N/A	N/A	3,300 g	Out of Service - Yard Truck Opa-Locka
18	2006	International Vac Truck	1HTTNAET6WJ033596	N7816E	70,000	425/65R22.5	12R/22.5	Dec-10	5415	4,000 g	
20	2006	International Jetter Truck	1HTWGAZT66J293062	N3393K	66,000	385/65R22.5	11R/22.5	Dec-10	3709	3,000 g	
21	2006	Peterbilt (Ailford)	1NP5LBOX16N896671	N3412K	66,000	385/65R22.5	11R/22.5	Dec-09	3710	3,000 g	
24	2007	Kenworth Vac Truck	1NKDLBOX47J167238	871WXB	65,000	385/65R22.5	11R/22.5	Dec-10	5414	4,000 g	
25	1999	Sterling Jetter Truck	2FZNCE082XAA98652	N4527L	66,000	385/65R22.5	11R/22.5	Dec-10	5413	2,500 g	
42		Peterbilt Pump Truck	1XPCL59X1PD32024			295/75R22.5	295/75R22.5				Used Oil - West Coast
52	1991	Peterbilt Pump Truck	1XPFL59X4MMN308200								Used Oil - East Coast
55	2004	International Pump Truck	1HTMSAAR34J091332		56,000	385/80R22.5	11R/22.5			3,800 g	Used Oil - West Coast
Raider - ID	Year	Make/Model	VIN	Plate	GVWR	Front Tire	Rear Tire	Reg. Due	DPEP #	Capacity	Notes
19	2005	Roll-Off Truck	INPALUDX15D851619	N0340H	80,000	385/65R22.5	11R/22.5	Dec-10	N/A	N/A	
49		20 yard Roll-Off	112970	N/A	60,000	N/A	N/A	N/A	5800	20 yards	Scrap Steel
45		20 yard Roll-Off	N/A	N/A	60,000	N/A	N/A	N/A	3359	20 yards	
46		20 yard Roll-Off	N/A	N/A	60,000	N/A	N/A	N/A	3358	20 yards	Oil Filters
47		20 yard Roll-Off	N/A	N/A	60,000	N/A	N/A	N/A	5801	20 yards	
48		25 yard Vacuum Box	N/A	N/A	Jul-09	N/A	N/A	N/A		25 yards	
Raider - ID	Year	Make/Model	VIN	Plate	GVWR	Front Tire	Rear Tire	Reg. Due	DPEP #	Capacity	Notes
8	2002	Kenworth Tractor	1XKDD89X22J899463	X45VXM	52,000	295/75R22.5	11R/22.5	Dec-10	N/A	N/A	
9	2000	Peterbilt Tractor	1XP5DB9XOYN510092	D568JH	80,000	11R/24.5	285/5R24.5	Dec-10	N/A	N/A	
10	1983	Trail Tanker	1T9AE15B7EF003013	C1855S	65,000	N/A	11R/22.5	N/A	Nov-14	7,750 g	Out of Service - Plantation
11	1976	Butler Tanker	8100876	C8442T	65,000	N/A	11R/22.5	N/A		8,000 g	Out of Service - Plantation
12	1978	Frie Trailer	FWY245605	C9033Q	65,000	N/A	11R/22.5	N/A		5,000 g	Out of Service - Plantation
22	2004	Kenworth Tractor	3WKDD9X49A0864723	N4538BK	80,000	11R/22.5	11R/22.5	Dec-10	N/A	N/A	
23	2004	Heil Vacuum Tanker	5HTNA452135F14742	C2989X	65,000	N/A	11R/22.5	Perm	5412	7,000 g	
26	2007	Kenworth Tractor	1XKWDBOX07J198028	382YUB	80,000	11R/24.5	11R/24.5	Dec-10		N/A	
30	1972	Frie Trailer	UNP427510	C0296T	65,000	N/A	11R/24.5	Dec-09	5425		
31	1996	Arco Tanker	1A9114123T1005060	290517	66,000	N/A	11/24.5R	Perm	5461	6,500 g	
34	1984	Wind Tractor	1FDY490X9EVA55991	N8641P	80,000	N/A	11R/22.5	Dec-10	N/A	N/A	
36		40' Box Trailer	N69687		70,666	N/A	11R/24.5				Out of Service - Storage Opa-Locka
37		40' Box Trailer	241839		70666	N/A	11R/22.5				Out of Service - Storage Opa-Locka
38		Frac Tank	48242	C18555	22500	N/A	11R/22.5	Perm	N/A	20,000 g	
39		Frac Tank	5XHSV46148T000744	9246CE	22500	N/A	11R/22.5	Perm	N/A	20,000 g	
40		Frac Tank	5XHSV46128T000743	1048CF	22500	N/A	11R/22.5	Perm	N/A	20,000 g	
41		Frac Tank	5XHSV46168T000745	1049CF	22500	N/A	11R/22.5	Perm	N/A	20,000 g	
43	1979	Heil Tanker	950271	1044CF	54500	11R/22.5	11R/22.5	Perm	5798	8,200 g	
44	1981	Heil Tanker	1HLA3A7R	1045CF	54500	11R/22.5	11R/22.5	Perm	5799	8,200 g	2 Compartment 3700/4500
50	1996	Lufk - 53' Box Trailer	1L01A5328T1123363	0259CG	80000	N/A	295/75R22.5	Perm	N/A		West Coast



MATERIAL SAFETY DATA SHEET

PAGE 1 OF 6

PRODUCT NAME: ON-SPECIFICATION FUEL OIL

MSDS NUMBER: RAIDER-001

SDS DATE: 1 FEBRUARY 2010

EMERGENCY PHONE #'s: 1-877-316-0633

RAIDER ENVIRONMENTAL SERVICES, INC.

4103 NORTHWEST 132ND STREET

OPA-LOCKA, FL 33054

(305) 994-9949 (305) 681-6175 FAX

HEALTH

0 - NORMAL MATERIAL

FIRE

1 - FLASH POINT ABOVE 200°F

REACTIVITY

0 - STABLE

SPECIFIC

1. IDENTIFICATION

PRODUCT NAME: ON-SPECIFICATION FUEL OIL

SYNONYMS: USED OIL FUEL

PRODUCT USE: FUEL OIL FOR INDUSTRIAL BOILERS. IF THIS PRODUCT IS USED IN COMBINATION WITH OTHER PRODUCTS, REFER TO THE MATERIAL SAFETY DATA SHEET FOR THOSE PRODUCTS.

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	WT %	SYNONYM	CAS #	OSHA PEL		ACGIH TLV		LD/LC
				TWA	STEL	TWA	STEL	
Used Oil	65 to 100*	N. Av.	N. Av.	5mg/m3	N. Av.	5mg/m3	10mg/m3	N. Av.
Water Solids	0 to 25*	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.
Hydrocarbon solvents. May include gasoline, diesel fuel, jet fuel, mineral spirits, etc.	0 to 10*	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.
Metals. May include lead, iron, zinc, copper, chromium, arsenic, nickel and others: each below 1.0 WT%	0 to 1.5*	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.
Polynuclear aromatics. May include naphthalene, fluoranthene, phenanthrene, pyrene and others: each below 0.3 WT%	0 to 1.0*	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.

*Even though the concentration does not fall under the ranges prescribed by WHMIS, this is the actual range which varies with each batch of the product.

N.Av. = Not Available

LD = Oral - Rat LD50

LC = Inhalation - LC50

TWA/STEL is based on Stoddard Solvent

3. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Black	Melting Point:	Not Available
State:	Liquid	Boiling Point:	Not Available
Odor Characteristics:	Petroleum	Flash Point:	Greater than 150°F Closed Cup
pH:	6 - 9	Freezing Point:	Not Available
Viscosity:	100 - 300 SUS @ 100°F	Percent Volatility:	Not Available
Specific Gravity (water = 1):	0.8 to 1.0 @ 60°F	Evaporation Rate (BAC = 1):	Less than 1 (Butyl Acetate = 1)
Density:	6.7 to 8.3 lb/US gal (800 to 1000 g/l)	Solubility in Water:	Slight
Vapor Pressure:	Not Available	Odor Threshold:	Not Available
Vapor Density (Air = 1):	Not Available	Molecular Weight:	Not Available



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MATERIAL SAFETY DATA SHEET

PAGE 2 OF 6

PRODUCT NAME: ON-SPECIFICATION FUEL OIL

MSDS NUMBER: RAIDER-001

MSDS DATE: 1 FEBRUARY 2010

EMERGENCY PHONE #'s: 1-877-316-0633

4. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE

Thick black, viscous liquid with a petroleum odor.

WARNING!

PHYSICAL HAZARDS

Combustible liquid and vapor.

HEALTH HAZARDS

May be harmful if inhaled.

May be harmful if swallowed.

May be harmful if absorbed through the skin.

May irritate the respiratory tract (nose, throat and lungs), eyes and skin.

May cause skin sensitization.

Suspect cancer hazard. Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.

Contains material which can cause birth defects.

Contains material which can cause central nervous system damage.

ENVIRONMENTAL HAZARDS

Components may be harmful to aquatic life.

POTENTIAL HEALTH EFFECTS

INHALATION (BREATHING):

High concentrations of vapor may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness and other central nervous system effects. Massive acute overexposure may cause rapid central nervous system depression, sudden collapse, coma and/or death.

EYES:

May cause irritation.

SKIN:

May cause skin sensitization. May cause irritation. May be absorbed through the skin and cause harm as noted under **INHALATION (BREATHING)**.

INGESTION (SWALLOWING):

May be harmful if swallowed. May cause throat irritation, nausea, vomiting and central nervous system effects as noted under **INHALATION (BREATHING)**. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Individuals with pre-existing respiratory tract (nose, throat and lungs), central nervous system, kidney, eye and/or skin disorders may have increased susceptibility to the effects of exposure.

CHRONIC:

Prolonged or repeated inhalation may cause toxic effects as noted under **INHALATION (BREATHING)**. Prolonged or repeated exposure may cause oil pneumonia, lung tissue inflammation, fibrous tissue formation and central nervous system, liver and kidney damage, and may cause mutagenicity, reproductive toxicity, teratogenicity and birth defects. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching and/or swelling (dermatitis).

CANCER INFORMATION:

This product contains mineral oils, untreated or mildly treated, which can cause cancer. This product may contain hydrocarbon and chlorinated solvents, metals and polynuclear aromatics which can cause cancer. Risk of cancer depends on duration and level of exposure. Also see **SECTION 11: CARCINOGENICITY**. Also see **SECTION 15: CALIFORNIA**.

POTENTIAL ENVIRONMENTAL EFFECTS

Components may be toxic to aquatic life. Also see **SECTION 12: ECOLOGICAL INFORMATION**.



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MATERIAL SAFETY DATA SHEET **PAGE 3 OF 6**

PRODUCT NAME: ON-SPECIFICATION FUEL OIL

MSDS NUMBER: RAIDER-001

MSDS DATE: 1 FEBRUARY 2010

EMERGENCY PHONE #'s: 1-877-316-0633

5. FIRST AID MEASURES

INHALATION (BREATHING):	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.
EYES:	If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.
SKIN:	Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists. Wash contaminated clothing before re-use.
INGESTION (SWALLOWING):	Do NOT induce vomiting. Immediately get medical attention. Call 1-800-468-1760 for additional information. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything by mouth to an unconscious person.
NOTE TO PHYSICIANS:	Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information.

6. FIRE FIGHTING MEASURES

FLASH POINT:	Greater than 150°F Closed Cup								
FLAMMABLE LIMITS IN AIR:	LOWER: Not Available UPPER: Not Available								
AUTOIGNITION TEMPERATURE:	Not Available								
HAZARDOUS COMBUSTION PRODUCTS:	Decomposition and combustion materials may be toxic. Burning may produce phosgene gas, nitrogen oxides, carbon monoxide and unidentified organic compounds								
NFPA 704 HAZARD IDENTIFICATION	<table><tr><td>Health Hazard (Blue)</td><td>- 0</td></tr><tr><td>Fire Hazard (Red)</td><td>- 1</td></tr><tr><td></td><td>- 0</td></tr><tr><td>Specific Hazard (White)</td><td>- Blank</td></tr></table>	Health Hazard (Blue)	- 0	Fire Hazard (Red)	- 1		- 0	Specific Hazard (White)	- Blank
Health Hazard (Blue)	- 0								
Fire Hazard (Red)	- 1								
	- 0								
Specific Hazard (White)	- Blank								
FIRE FIGHTING INSTRUCTIONS:	Keep storage containers cool with water spray. A positive-pressure, self-contained breathing apparatus (SCBA) and full body protective equipment are required for fire emergencies.								
FIRE AND EXPLOSION HAZARDS:	Vapor explosion hazard indoors, outdoors or in sewers. Vapors may travel to ignition source and flashback. Vapors will spread along the ground and collect in low or confined areas. Run-off to sewer may create a fire hazard. Heated containers may rupture or be thrown into the air. "Empty" containers may retain residue and can be dangerous. Product is not sensitive to mechanical impact or static discharge.								

7. ACCIDENTAL RELEASE MEASURES

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **SECTION 9: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery or sorb with compatible sorbent material and shovel with a clean, spark proof tool into a sealable container for disposal.

ditionally, for large spills: Water spray may reduce vapor, but not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and latter disposal.



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MATERIAL SAFETY DATA SHEET PAGE 4 OF 6

PRODUCT NAME: **ON-SPECIFICATION FUEL OIL**

MSDS NUMBER: **RAIDER-001**

MSDS DATE: **1 FEBRUARY 2010**

EMERGENCY PHONE #'s: **1-877-316-0633**

8. HANDLING AND STORAGE

HANDLING:

Keep away from sparks or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean, spark proof tools and explosion-proof equipment. When transferring product, metal containers, including trucks and tank cars should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing and shoes. Do not smoke while using this product.

SHIPPING AND STORING:

Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill or grind containers. Keep containers away from heat, flame, sparks, static electricity or other sources of ignition. Empty product containers may retain product residue and can be dangerous. See **SECTION 14: TRANSPORTATION INFORMATION** for Packing Group information.

9. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below applicable exposure limits. Where explosive mixtures may be present, equipment safe for such locations should be used.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION:

Use NIOSH-certified P- or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Do not use N- rated respirators. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

EYE PROTECTION:

Wearing chemical goggles is recommended. Contact lens use is not recommended without eye protection.

SKIN PROTECTION:

Where skin contact is likely, wear chemical impervious protective gloves; use of natural rubber (latex) or equivalent gloves is not recommended.

To avoid prolonged or repeated contact with product where spills and splashes are likely, wear appropriate chemical-resistant face-shield, boots, apron, whole body suits or other protective clothing.

PERSONAL HYGIENE:

Use good personal hygiene. Wash thoroughly with soap and water after handling product and before eating, drinking or using tobacco products. Clean affected clothing, shoes and protective equipment before reuse. Discard affected clothing, shoes and/or protective equipment if they cannot be thoroughly cleaned. Discard leather articles, such as shoes, saturated with this product.

OTHER PROTECTIVE EQUIPMENT:

Where spills and splashes are likely, facilities storing or using this product should be equipped with an emergency eyewash and shower, both equipped with clean water in the immediate work area.

10. STABILITY AND REACTIVITY

STABILITY:

Stable under normal temperatures and pressures. Avoid heat, sparks or flame..

COMPATIBILITY:

Avoid acids, alkalis, oxidizing agents, reducing agents, reactive metals or reactive halogens.

REACTIVITY:

Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.

HAZARDOUS DECOMPOSITION:

None under temperatures and pressures. See also **SECTION 6: FIREFIGHTING MEASURES**.



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MATERIAL SAFETY DATA SHEET PAGE 5 OF 6

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MSDS NUMBER: **RAIDER-001**

MSDS DATE: **1 FEBRUARY 2010**

EMERGENCY PHONE #'s: **1-877-316-0633**

11. TOXICOLOGICAL INFORMATION

SENSITIZATION:	Based on best current information, there may be known human sensitization associated with this product.
MUTAGENICITY:	Based on best current information, there may be known mutagenicity associated with this product.
CARCINOGENICITY:	Minerals oils, untreated or mildly treated are categorized by IARC as carcinogenic to humans (Group 1). Mineral oils, untreated or mildly treated listed by NTP as having limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals. There may be hydrocarbon and chlorinated solvents, metals and polynuclear aromatics present in this product which are listed by OSHA as carcinogens. There may be hydrocarbon and chlorinated solvents, metals and polynuclear aromatics present in this product which are categorized by IARC as carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A) and/or possibly carcinogenic to humans (Group 2B). There may be hydrocarbon and chlorinated solvents, metals and polynuclear aromatics present in this product which are classified by NTP as known carcinogens and/or as having limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals. There may be hydrocarbon and chlorinated solvents, metals and polynuclear aromatics present in this product which are recognized by ACGIH as confirmed human carcinogens (A1) and/or suspected human carcinogens (A2).
REPRODUCTIVE TOXICITY:	Based on best current information, there may be known reproductive toxicity associated with this product.
TERATOGENICITY:	Based on best current information, there may be known teratogenicity associated with this product.
TOXICOLOGICALLY SYNERGISTIC PRODUCT(S):	Based on best current information, there may be known toxicologically synergistic products associated with this product.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:	Components of this product may be harmful to aquatic life.
OCTANOL/WATER PARTITION COEFFICIENT:	Not available.
VOLATILE ORGANIC COMPOUNDS:	56 WT%; <500 g/L (calculated). As per 40 CFR Part 51.100(s).

13. DISPOSAL CONSIDERATIONS

DISPOSAL:	Dispose in accordance with Federal, State and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Raider Environmental Services, Inc. regarding proper recycling or disposal.
USEPA WASTE CODE(S):	Based on available data, this information applies to the product as supplied to the user. Processing, use or contamination by the user may change the waste code applicable to the disposal of this product.

14. TRANSPORT INFORMATION

DOT:	Shipping Name: Fuel Oil, 3, NA1993, PGIII (#5 Fuel Oil)
HAZARDOUS MATERIALS:	Shipping Name: Fuel Oil, 3, NA1993, PGIII (#5 Fuel Oil)
EMERGENCY RESPONSE GUIDE NUMBER:	128 - Reference North American Emergency Response Guidebook



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MATERIAL SAFETY DATA SHEET PAGE 6 OF 6

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MSDS NUMBER: RAIDER-001

MSDS DATE: 1 FEBRUARY 2010

EMERGENCY PHONE #'s: 1-877-316-0633

15. REGULATORY INFORMATION

SARA SECTIONS 302 AND 304:	Based on ingredients listed in SECTION 2 , this product may contain "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR 355; Appendix A and B.
SARA SECTIONS 311 AND 312:	This product poses the following health hazards as defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA): Immediate (Acute) Health Hazard Delayed (Chronic) Health Hazard Fire Hazard
SARA SECTION 313:	This product may contain "toxic" chemicals subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA and 40 CFR Part 372.
CERCLA	Based on the ingredients listed in SECTION 2 , this product may contain "hazardous substances" listed pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR 302, Table 302.4.
TSCA	Not available.
CALIFORNIA	This product is not for sale or use in the State of California.

16. OTHER INFORMATION

REVISION INFORMATION	New Product MSDS.
LABEL/OTHER INFORMATION:	For shipment of Fuel Oils with actual measured flashpoint greater than 150°F. ALL PRODUCTS SHIPPED UNDER THIS MSDS MUST HAVE ACTUAL FLASHPOINT DATA TO SUPPORT COMBUSTIBLE CLASSIFICATION.

954-791-0050

could not find COA that match

**COLONIAL CHEMICAL SOLUTIONS**PO BOX 576
SAVANNAH, GEORGIA 31402-0675

1-800-285-8593

The LOT #
you gave.**MATERIAL SAFETY DATA SHEET: Caustic Soda Solution 50%****1. CHEMICAL PRODUCT AND COMPANY INFORMATION****Product Name:** 50% Caustic Soda - Liquid**Effective Date:** 01/23/06**Chemical Formula:** NaOH in H₂O Solution**Synonym:** Sodium Hydroxide Solution**ID Number:** UN 1824**CAS Number:** 1310-73-2**Product Use:** Metal finishing, neutralization, industrial cleaners, chemical processing.**Emergency Phone Numbers (24 Hour):**

Chemtrec (800) 424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount (Vol%)
Sodium Hydroxide	1310-73-2	Approx 50%
Water	7732-18-5	Approx 50%

3. HAZARDS IDENTIFICATION**• Precautionary Information**

Corrosive. Can cause severe eye, skin, and respiratory tract burns. Highly toxic by ingestion. Ingestion will cause severe burns of the mouth, throat, and stomach. Avoid any skin or eye contact. Avoid breathing dusts or mists.



Hazards Ratings:

Key: 0 = least, 1 = slight, 2 = moderate, 3 = high, 4 = extreme

	Health	Fire	Reactivity	PPI
NFPA	3	0	1	
HMIS	3	0	1	J

- **Fire Extinguishing Media**
Not Applicable. Not flammable.
- **Explosion**
Contact with some metals, particularly magnesium, aluminum, and zinc (galvanized), can generate hydrogen rapidly, which is explosive.

4. FIRST AID MEASURES

- **INHALATION**
Remove to fresh air at once. Provide emergency airway support. If needed, give 100% humidified supplemental oxygen and continue to monitor. Get immediate medical attention.
- **SKIN**
Immediately flush skin with plenty of water for at least 15 minutes. If chemical penetrates clothing, immediately remove the clothing and flush skin with water. Get medical attention immediately.
- **EYES**
Flush eye with room temperature water within 10 seconds of contact and continue for 30 minutes. Get medical attention. Ophthalmology consultation is a must.
- **INGESTION**
If swallowed, do NOT induce vomiting. Give victim no more than an 8oz. a glass of water or milk to minimize the risk of vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

	Typical	Minimum	Maximum	Test Result	Units	Method
Flash Point	N/A				F	N/A
Autoignition Temperature	N/A				F	N/A
Lower Explosion Limit	N/A				%	N/A
Upper Explosion Limit	N/A				%	N/A

Caustic Soda is not combustible. Avoid direct contact of Caustic Soda with water, as this can produce a violent exothermic reaction. Use fighting agent suitable for surrounding fire to extinguish fire.

Extinguishing Media:

This material does not burn. If exposed to fire from another source, use suitable fire extinguishing agent for that fire.

Fire Fighting Instructions:

Keep people away. Isolate fire area and deny unnecessary entry. This material does not burn. Fight fire for other material that is burning.

Protective Equipment For Fire Fighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant clothing with SCBA. This will not provide sufficient fire protection; consider fighting fire from a remote location. For protective equipment in post-fire or non-fire clean up situations, refer to the relevant sections.

6. ACCIDENTAL RELEASE MEASURES

Protect People:

Evacuate area. Clear non-emergency personnel from area. Ventilate area of spill or leak. See MSDS, Section 10, for information on Stability and Reactivity.

Protect the Environment:

Contain material to prevent contamination of soil, surface water or ground water.

Cleanup:

Dike spills immediately. Carefully flush small spills of Caustic Soda solution with water. Attempt to neutralize final traces of Caustic Soda with dilute acid, preferably acetic acid.

7. HANDLING AND STORAGE

- Avoid breathing mist.
- Avoid breathing vapors.
- Hazardous carbon monoxide gas can form upon contact with food and beverage products in enclosed spaces and can cause death. Follow appropriate tank entry procedures (ANSI Z117.1).
- Containers, even those that have been emptied, will retain product residue and vapor and should be handled as if they were full.
- Do not get in eyes, on skin, or clothing.
- Do not take internally.
- Keep away from acid to avoid possible violent reaction.
- Wash contaminated clothing before reuse.
- Wash thoroughly after handling. Exposure can cause burns that are not immediately painful or visible.
- Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8).
- If product is added too rapidly or without stirring, and becomes concentrated at bottom of mixing vessel, excessive heat may be generated, resulting in DANGEROUS boiling and spattering and a possible IMMEDIATE AND VIOLENT ERUPTION of a highly caustic solution.
- Keep container tightly closed and properly labeled. Dike storage container to contain 110% of tank volume.
- Under normal conditions this product can be stored satisfactorily in mild steel without an interior lining. Aluminum is not recommended for storage and handling.
- Store above 60F (16C).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: Atmospheric levels should be maintained below the exposure guideline. If respiratory irritation is experienced, use an approved air-purifying respirator.

Skin Protection:

Use protective clothing impervious to this material. Selection of specific items such as face-shield, gloves, boots, apron, or full-body suit will depend on work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse. Contaminated leather items, such as shoes, belts and watchbands, should be removed and destroyed.

Eye/Face Protection:

Use chemical goggles. Wear a face-shield that allows use of chemical goggles, or wear a full-face respirator to protect face and eyes when there is any likelihood of splashes. Eye wash fountain should be located in immediate work area.

Engineering Controls: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

EXPOSURE LIMITS:

Component	Exposure Limits
Sodium hydroxide	OSHA and ACGIH TLV are 2 mg/m3 Ceiling.

Colonial Chemical Solutions
MSDS - Caustic Soda 50%
Last Revised 01/23/05

9. PHYSICAL AND CHEMICAL PROPERTIES

- Boiling Point: Approx. 293F, 145C.
- Freeze Point: Approx. 58F, 14C.
- Specific Gravity (Water =1): @ 20C (Dens.) 1.52 g/ml
- Vapor Pressure (mm of Hg): 13 135 @ 60C.
- Vapor Density (Air=1): No available
- Water Solubility: 100%
- Appearance: Clear, colorless viscous liquid
- Odor: No discernible odor
- Evaporation rate: Not available
- Physical State: Liquid
- pH: 14 (7.5% solution)

10. STABILITY AND REACTIVITY

Stability:

Stable under recommended storage conditions. See storage section.

Conditions to Avoid:

Avoid temperature below 85F.

Incompatibility (Materials to Avoid):

Heat is generated when mixed with water. Spattering and boiling can occur. Flammable hydrogen may be generated from contact with acids, halogenated organics, organic nitro compounds, and glycols. Caustic Soda solution reacts readily with various sugars (i.e. fructose, galactose, maltose, dry when solids) to produce carbon monoxide. Precautions should be taken including monitoring the tank atmosphere for carbon monoxide to ensure safety of personnel.

Hazardous Decomposition Products:

Does not decompose.

Hazardous Polymerization:

Will not occur.

11. TOXICOLOGICAL INFORMATION

CAUSTIC SODA LIQUIDS (ALL GRADES)

Toxicity Data:

The severity of the tissue damage is a function of its concentration, the length of tissue contact time, and local tissue condition. After exposure there may be a time delay before irritation and other effects occur. This material is a strong irritant and is corrosive to the skin, eyes, and mucous membranes. This material may cause severe burns and permanent damage to any tissue with which it comes into contact. Inhalation will cause severe irritation; possible burns with pulmonary edema, which may lead to pneumonitis. Skin contact with this material may cause severe irritation and corrosion of tissue. Eye contact can cause severe irritation, corrosion with possible corneal damage and blindness. Ingestion may cause irritation, corrosion/ulceration, nausea, and vomiting. In general, chronic effects are due to long-term irritation. This material may cause dermatitis on the skin, or recurrent corneal ulceration and visual disturbance of vision. In rare cases reports have noted long-term inhalation causes bronchial inflammatory reaction or obstructive airway dysfunction.

12. ECOLOGICAL INFORMATION

Ecotoxicity Values:

LC100 Cyprinus Carpio 180 ppm/24 HR@25 C. [Nishiuchi Y; Suisan Zoshoku 23: 132 (1975)]
TLm mosquito fish 125 ppm/96 hr (fresh water)

[U.S. Coast Guard, Department of Transportation. CHRIS - Hazardous Chemical Data. Volume II. Washington, D.C.: U.S. Government Printing Office, 1984-5.]

TLm Bluegill 99 mg/L/48 hr (tap water) [Environment Canada; Tech Info for Problem Spills: Sodium Hydroxide (Draft) p.61 (1981)]

ENVIRONMENTAL FATE

Movement & Partitioning:

Based on information for sodium hydroxide. No bioconcentration is expected because of the relatively high water solubility. Partitioning from Water to n-otanol is not applicable.

Degradation & Transformation:

Based on information from sodium hydroxide. Biodegradation is not applicable.

Ecotoxicology:

Based on information for sodium hydroxide. Material is slightly toxic to aquatic organisms on an acute basis (LC50 between 10 - 100 mg/L in most sensitive species). May cause pH shifts outside the range of 5 - 10; this change may be toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

COLONIAL CHEMICAL SOLUTIONS, INC. HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OR PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY AS DESCRIBED IN MSDS SECTION 2.

For Unused & Uncontaminated Product:

The preferred options include sending to a licensed, permitted: recycler.

14. TRANSPORT INFORMATION

U.S. Department of Transportation

- Proper Shipping Name: Sodium Hydroxide Solution
- ID Number: UN 1824
- Hazard Class: 8 (Corrosive)
- Packing Group: II
- Reportable Quantity: 1000 lbs
- Placard: Corrosive
- Label: Corrosive

15. REGULATORY INFORMATION

THIS PRODUCT CONTAINS COMPONENT(S) CITED ON THE FOLLOWING REGULATIONS:

United States TSCA

Inventory: Listed

Water Standards:

Designated as a hazardous substance under section 311 (b)(2)(A) of the Federal Water Pollution Control Act and further regulated by the Clean Water Act Amendments of 1977 and 1978. These regulations apply to discharges of sodium hydroxide. [40 CFR 116.4]

Atmospheric Standards: Clean Air Act (1990)**CERCLA: Reportable Quantity (RQ):**

Persons in charge of vessels or facilities are required to notify the National Response Center (NRC) immediately, when there is a release of this designated hazardous substance, in an amount equal to or greater than this reportable quantity of 1,000 lb or 454 kg. The free telephone number of the NRC is (800) 424-8802.

SARA Title III:**Section 311/312 - Categories:**

Acute; reactive

Section 312 - Inventory Reporting: **Caustic soda** is subject to Tier I and/or Tier II annual inventory reporting.

Section 313 - Emission Reporting: **Caustic soda** is not subject to Form R reporting requirements.

Section 302 - Extremely Hazardous Substances: **Caustic soda** is not listed.

State Right-To-Know:

California - Exposure Limits - Ceilings:

California - Proposition 65 List: not listed

Director's List of Hazardous Substances: listed

Florida - Hazardous Substances List: listed

Massachusetts - Right-to-Know List: listed

Minnesota - Haz. Subs. List: Listed

New Jersey - Right-to-Know List: listed, reporting requirement, special health hazard

Pennsylvania Right-to-Know: listed, reporting requirement, environmental hazard, special hazard

Michigan - Critical Materials List: not listed

NATIONAL INVENTORY STATUS:**U.S. INVENTORY (TSCA):**

All components of this substance are listed on or are exempt from the inventory.

TSCA 12(b) EXPORT NOTIFICATION: Not listed.

16. OTHER INFORMATION

Colonial Chemical Solutions, Inc. makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Colonial Chemical Solutions, Inc. as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does Colonial Chemical Solutions, Inc. assume liability arising out of the use by others of this product referred to herein. The data in this MSDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Colonial Chemical Company

A Unit of The ESS Group, Inc.

Manufacturers of Quality Electrolyte and Blended Products.

78 Carranza Road, Tabernacle, NJ 08088 • (609) 268-1200 • (609) 268-2117 Fax

MATERIAL SAFETY DATA SHEET

PRODUCT: SULFURIC ACID *WITH MORE THAN 51% ACID* 51% - 98%

MANUFACTURER/DISTRIBUTOR

Colonial Chemical Company
78 Carranza Road
Tabernacle, NJ 08088

Product Information: (609) 268-1200
Emergency: CMB(800) 457-4280

IDENTITY

Chemical Name: Sulfuric acid Electrolyte grade

Chemical Family: Mineral Acid, Inorganic acid

Molecular Formula: H_2SO_4

CAS Number: 7664-93-9

Hazard Class: Corrosive Material, 8

UN/NA Number: UN 1830

WHMIS Classification: Class E - Corrosive, Class D1A

Packaging Group II

NFPA Ratings:

Health: 3

Flammability: 0

Reactivity: 2

Water Reactive

NPCA-HMIS Ratings

Health: 3

Flammability: 0

Reactivity: 2

EXPOSURE LIMITS

TLV (ACGIH) $1mg/m^3$ - 8 Hr TWA STEL: $3 mg/m^3$

PEL (OSHA) $1 mg/m^3$ - 8 Hr TWA

Aquatic Toxicity: The 48 hour Tlm in flounder is 100-300 ppm.

PHYSICAL DATA

Physical State: Liquid

Appearance: Clear and odorless

Boiling Point: 52% - 270°F 93% - 529°F

Freezing Point: 52% --30°F 93% - -21°F

Vapor Pressure: <0.3 mm Hg at 77°F

Vapor Density: 3.4

Evaporation Rate: Less than 1

Water Solubility: 100% soluble

pH: Less than 1

COMPONENTS

Sulfuric Acid CAS# 7664-93-9	Water CAS# 7732-18-5	Specific Gravity @ 60°F
60%	40%	1.500
68.74%	31.26%	1.600
70%	30%	1.616
77.67%	22.33%	1.705
93%	7%	1.835
98%	2%	1.843

FIRE AND EXPLOSION DATA

Flash Point: Will not burn, non-flammable

Autoignition Temperature: Not combustible

Flammability Limits in air (%) UEL: Not applicable

LEL: Not applicable

Hazards: Reacts with most metals, especially when dilute, to give flammable, potentially explosive hydrogen gas. Follow appropriate National Fire Protection Assoc. (NFPA) codes.

Extinguishing Media: Use media appropriate for surrounding material. Use water spray to cool containers exposed to fire; do not get water inside containers.

Special Instructions: Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Generates heat upon addition of water, with possible spattering. Wear full protective clothing. Runoff from fire control may cause pollution. Neutralize runoff with lime, soda ash, etc. Wear self-contained breathing apparatus if fumes or mists are present.

HAZARDOUS REACTIVITY

Instability: Stable, but reacts violently with water and organic materials with evolution of heat.

Decomposition: Releases sulfur dioxide at extremely high temperatures.

Polymerization: Polymerization will not occur.

Materials to Avoid: Vigorous reactions with water; alkaline solutions; metals, metal powder; carbides; chlorates; fuminates; nitrates; picrates; strong oxidizing, or combustible organic materials. Hazardous gases are evolved on reducing, contact with chemicals such as cyanides, sulfides, and carbides.

From: Brandon G. Dow [brandon@raiderenvironmental.com]
Sent: Thursday, May 13, 2010 4:02 PM
To: Winston, Kathy
Subject: Updated SPCC Part 2
Attachments: 20100513144822071.pdf

Part 2 of 2

Brandon G. Dow, CHMM
General Manager
Raider Environmental Services, Inc.
(954) 325-3119 Cell
(305) 994-9949 Office
(305) 681-6175 Fax

HEALTH HAZARD DATA

Causes severe burns to eyes, skin, and all body tissue. Eye damage may be permanent. Destruction of tissue may result from direct chemical reaction with tissue, from thermal burns, and from dehydration (removal of water) of the tissue.

Animal Data:

Inhalation 1 hour LC50:	347 ppm in rats
Oral LD50	2140 mg/kg in rats

The concentrated compound is corrosive to the skin and eyes of animals causing corrosion of mucosal surfaces. Toxic effects described in animals from single exposures by inhalation include respiratory irritation.

Exposure to the liquid by skin or eye contact may cause eye corrosion with corneal or conjunctival ulceration; or skin burns or ulceration. Ingestion of the liquid may cause severe burns to the mucous membranes of the mouth and esophagus. Repeated or prolonged contact with mists may cause eye irritation with tearing or blurring of vision; or skin irritation with discomfort or rash. Prolonged or repeated exposure may result in impaired lung function and possible discoloration and erosion of teeth. Individuals with preexisting diseases of the lungs may have increased susceptibility to the toxicity of excessive exposures.

CARCINOGENICITY

None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

FIRST AID

Inhalation:

Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped. Give CPR if there is no breathing AND no pulse. Obtain medical attention IMMEDIATELY.

Ingestion:

If swallowed, do not induce vomiting. Give large quantities of water. Call a physician. Do not neutralize the acid. Never give anything by mouth to an unconscious person.

Skin or Eye Contact:

In case of contact, immediately (within seconds) flush eyes or skin with plenty of cold water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. While the patient is being transported to a medical facility apply compresses of iced water. If medical treatment must be delayed, immerse the affected area in iced water or apply compresses of iced water to affected areas. Do not freeze tissue.

Notes to Physician:

Continued washing of the affected area with cold or iced water will be helpful in removing the last traces of sulfuric acid. Creams or ointments should not be applied before or during the washing phase of treatment.

PRECAUTIONS FOR SAFE HANDLING

Good general ventilation should be provided to keep vapor and mist concentrations below the exposure limits. Have available and wear as appropriate for exposure conditions when handling containers or operating equipment containing sulfuric acid: Chemical splash goggles; full-length face shield/chemical splash goggle combination; acid-proof gauntlet gloves, apron, and boots; long sleeve wool, acrylic or polyester clothing; acid proof suit and hood; and appropriate NIOSH/MSHA respiratory protection. In case of emergency or where there is a strong possibility of considerable exposure, wear a complete acid suit with hood, boots and gloves. If acid vapor or mist are present and exposure limits may be exceeded, wear appropriate NIOSH/MSHA respiratory protection.

Always add acid to water - not water to acid.

SPILLS:

EPA and Superfund reportable discharge is 1000 lbs. Stop flow if possible. Use appropriate protective equipment during clean up. Soak up small spills with dry sand, clay or diatomaceous earth. Dike large spills, and cautiously dilute and neutralize with lime or soda ash, and transfer to waste water treatment system. Prevent liquid from entering sewers, waterways or low areas. Comply with Federal, State and local regulations.

WASTE:

Cleaned up material may be a RCRA Hazardous Waste on disposal. Do not flush to surface water or sanitary sewer system. Comply with Federal, State and local regulations. If approved, neutralize and transfer to waste treatment system.

STORAGE:

Keep out of sun and away from heat, sparks, and flame. Keep container tightly closed to prevent leakage. Loosen closure carefully; relieve internal pressure when received and at least weekly thereafter. Do not use pressure to empty. Do not wash out container or use it for other purposes. Replace closure after each use.

Date: August 2, 2003

Filename: SULFMSDS.DOC
Directory: C:\DOCUME~1\HRICAG~1\DPC\LOCALS~1\Temp
Template: C:\Documents and Settings\hricage.DPCSRV\Application
Data\Microsoft\Templates\Normal.dot
Title: MATERIAL SAFETY DATA SHEET
Subject:
Author:
Keywords:
Comments:
Creation Date: 3/18/1994 2:41 PM
Change Number: 22
Last Saved On: 8/4/2003 3:15 PM
Last Saved By: Linda Drury
Total Editing Time: 80 Minutes
Last Printed On: 10/21/2003 10:05 AM
As of Last Complete Printing
Number of Pages: 4
Number of Words: 1,046 (approx.)
Number of Characters: 5,965 (approx.)



Engineered Chemistry™

Material Safety Data Sheet

AS 35

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	1
PERSONAL PROTECTION	

1. Product and Company Identification

Material name	AS 35
Patent Number	Not available
Version No.	1
CAS #	Mixture
Product use	Demulsifier
Manufacturer information	Midwest Custom Chemicals, Inc. P.O. Box 727 Newburgh, IN 47629 US 812-858-3147 CHEMTREC 800-424-9300/703-527-3887
Emergency	CHEMTREC 800-424-9300/703-527-3887
Supplier information	Midwest Custom Chemicals, Inc. P.O. Box 727 Newburgh, IN 47629 US

2. Hazards Identification

Emergency overview	Prolonged exposure may cause chronic effects.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Ingestion. Inhalation. Skin contact. Eye contact.
Inhalation	Causes burns. Prolonged inhalation may be harmful. Do not breathe dust/fume/gas/mist/vapors/spray.
Ingestion	Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract. May cause delayed lung damage. Do not ingest.
Target organs	Central nervous system. Eyes. Gastrointestinal tract. Lungs. Respiratory system. Skin.
Chronic effects	Shortness of breath. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage.
Signs and symptoms	Discomfort in the chest. Shortness of breath. Narcosis. Decrease in motor functions. Behavioral changes. Cough.
Potential environmental effects	Components of this product are hazardous to aquatic life. May cause long-term adverse effects in the environment.



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Page 1 of 9

Material Name: AS 35 - MCC Version Number: 01

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3. Composition / Information on Ingredients

Components	CAS #	Percent
Methanol	67-56-1	7 - 13
Organic Acid	XXXXX-XX-X	40 - 70

4. First Aid Measures

First aid procedures

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

Skin contact

Immediately flush skin with plenty of water. Get medical attention if irritation develops or persists.

Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.

Ingestion

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice.

Notes to physician

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General advice

If exposed or concerned: get medical attention/advice. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media

Dry chemical, CO₂, water spray or regular foam.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters

Protective equipment and precautions for firefighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Move containers from fire area if you can do it without risk. Do not scatter spilled material with high pressure water streams. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

6. Accidental Release Measures

Personal precautions

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away. Stay upwind. Keep out of low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water.



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Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Should not be released into the environment.

Large Spills: Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. After removal flush contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

Never return spills in original containers for re-use.

Other information

Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling

Do not breathe dust/fume/gas/mist/vapors/spray. Avoid prolonged exposure. Wash thoroughly after handling. Avoid contact with skin and eyes.

Storage

Store in a closed container away from incompatible materials. Store in accordance with local/regional/national/international regulation.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components	CAS #	TWA	STEL	Ceiling
Methanol	67-56-1	200 ppm	250 ppm	Not established

OSHA

Components	CAS #	TWA	STEL	Ceiling
Methanol	67-56-1	200 ppm	Not established	Not established

Engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Personal protective equipment

Eye / face protection

Do not get this material in contact with eyes. Wear chemical goggles. Face-shield.

Skin protection

Do not get this material in contact with skin. Do not get this material on clothing. Wear chemical protective equipment that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent). Protective gloves. Impervious gloves. Structural firefighters protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

Respiratory protection

Wear positive pressure self-contained breathing apparatus (SCBA). When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.



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**General hygiene considerations**

Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not get this material on clothing. When using do not eat or drink. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling and before eating.

9. Physical & Chemical Properties

Appearance	Not available
Color	brown
Odor	Alcoholic.
Odor threshold	Not available
Physical state	Liquid.
Form	Liquid.
pH	2
Melting point	-31 °F (-35 °C) estimated
Freezing point	30 °F (-1.1 °C)
Boiling point	175 °F (79.4 °C)
Flash point	201 °F (93.9 °C)
Evaporation rate	Not available
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Vapor pressure	Not available
Vapor density	>1
Specific gravity	1.02
Relative density	1.0199 g/cm3 estimated
Solubility (water)	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	620.6 °F (327 °C) estimated
Decomposition temperature	Not available
VOC	7.5 % estimated
Viscosity	280 SSU@100 F

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.



**11. Toxicological Information****Acute effects**

Acute LD50: 1298 mg/kg estimated, Rat, Oral
Acute LC50: 1105 mg/l/4h estimated, Rat, Inhalation
Causes burns.

Component analysis - LD50**Toxicology Data - Selected LD50s and LC50s**

Methanol	67-56-1	Inhalation LC50 Rat: 83.2 mg/L/4H; Inhalation LC50 Rat: 64000 ppm/4H; Oral LD50 Rat: 5628 mg/kg; Dermal LD50 Rabbit: 15800 mg/kg
Organic Acid	XXXX-XX-X	Oral LD50 Rat: 500 mg/kg

Chronic effects

Hazardous by OSHA criteria. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects.

Carcinogenicity

Hazardous by OSHA criteria. Cancer hazard.

Neurological effects

Hazardous by OSHA criteria.

Further information

Symptoms may be delayed.

12. Ecological Information**Ecotoxicity**

LC50 28.61 mg/L estimated, Fish, 96.00 Hours,
EC50 2.03 mg/L estimated, Daphnia, 48.00 Hours,

Ecotoxicity - Freshwater Algae Data

Organic Acid	XXXX-XX-X	96 Hr EC50 Selenastrum capricornutum: 29 mg/L
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Ecotoxicity - Freshwater Fish Species Data

Methanol	67-56-1	96 Hr LC50 Pimephales promelas: 28100 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 13200 mg/L
Organic Acid	XXXX-XX-X	96 Hr LC50 Oncorhynchus mykiss: 10.8 mg/L [static]; 96 Hr LC50 Brachydanio rerio: 3.5-10 mg/L [static]

Ecotoxicity - Microtox Data

Methanol	67-56-1	5 min EC50 Photobacterium phosphoreum: 43000 mg/L; 15 min EC50 Photobacterium phosphoreum: 40000 mg/L; 25 min EC50 Photobacterium phosphoreum: 39000 mg/L
Organic Acid	XXXX-XX-X	15 min EC50 Photobacterium phosphoreum: 12.7 mg/L

Ecotoxicity - Water Flea Data

Organic Acid	XXXX-XX-X	48 Hr EC50 Daphnia magna: 5.88 mg/L
--------------	-----------	-------------------------------------

Environmental effects

Harmful to aquatic life.

Ecotoxicity - Freshwater Algae Data

Organic Acid	XXXX-XX-X	96 Hr EC50 Selenastrum capricornutum: 29 mg/L
--------------	-----------	-----------------------------------------------

Ecotoxicity - Freshwater Fish Species Data

Methanol	67-56-1	96 Hr LC50 Pimephales promelas: 28100 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 13200 mg/L
Organic Acid	XXXX-XX-X	96 Hr LC50 Oncorhynchus mykiss: 10.8 mg/L [static]; 96 Hr LC50 Brachydanio rerio: 3.5-10 mg/L [static]

Ecotoxicity - Microtox Data

Methanol	67-56-1	5 min EC50 Photobacterium phosphoreum: 43000 mg/L; 15 min EC50 Photobacterium phosphoreum: 40000 mg/L; 25 min EC50 Photobacterium phosphoreum: 39000 mg/L
Organic Acid	XXXX-XX-X	15 min EC50 Photobacterium phosphoreum: 12.7 mg/L

Ecotoxicity - Water Flea Data

Organic Acid	XXXX-XX-X	48 Hr EC50 Daphnia magna: 5.88 mg/L
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13. Disposal Considerations

Waste codes

D002: Waste Corrosive material [pH ≤ 2 or ≥ 12.5 , or corrosive to steel]

U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

Methanol

67-56-1

waste number U154 (Ignitable waste)

Disposal instructions

Dispose of this material and its container at hazardous or special waste collection point. Do not allow this material to drain into sewers/water supplies. Incinerate the material under controlled conditions in an approved incinerator. Dispose in accordance with all applicable regulations.

14. Transport Information

Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper shipping name

Corrosive liquid, N.O.S. (Organic Acid)

Hazard class

8

UN number

UN1760

Packing group

II

Additional information:

Special provisions

B2, IB2, T11, TP2, TP27

Packaging exceptions

154

Packaging non bulk

202

Packaging bulk

242

ERG number

154

ERG code

154



Department of Transportation (DOT) Requirements

Bulk

Basic shipping requirements:

Proper shipping name

Corrosive liquid, N.O.S. (Organic Acid)

Hazard class

8

UN number

UN1760

Packing group

II

Additional information:

Special provisions

B2, IB2, T11, TP2, TP27

Packaging exceptions

154

Packaging non bulk

202

Packaging bulk

242

ERG number

154

ERG code

154



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**Canadian Transportation of Dangerous Goods (TDG) Requirements****Basic shipping requirements:**

Proper shipping name Corrosive liquid, N.O.S. (Organic Acid)
Hazard class 8
UN number UN1760
Packing group II
Additional information:
ERG number 154

ERG code 154

IMDG**Basic shipping requirements:**

Proper shipping name Corrosive liquid, N.O.S. (Organic Acid)
Hazard class 8
UN number 1760
Packing group II

IATA**Basic shipping requirements:**

Proper shipping name Corrosive liquid, N.O.S. (Organic Acid)
Hazard class 8
UN number 1760
Packing group II

**15. Regulatory Information****Labelling**

Contains Methanol, Organic Acid

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Methanol 67-56-1 1.0 % de minimis concentration

U.S. - FDA - Direct Food Additives

Methanol 67-56-1 21 CFR 173.250

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes



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**CERCLA (Superfund) reportable quantity**

Dodecylbenzene Sulfonic Acid: 1000.0000

Methanol: 5000.0000

Sulfuric Acid: 1000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance
No

Section 311 hazardous chemical
Yes

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

International regulations**Canada - WHMIS - Ingredient Disclosure List**

Methanol	67-56-1	1 %
Organic Acid	XXXXX-XX-X	1 %

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - Massachusetts - Right To Know List

Methanol	67-56-1	Present
Organic Acid	XXXXX-XX-X	Present

U.S. - Minnesota - Hazardous Substance List

Methanol	67-56-1	Skin
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U.S. - New Jersey - Right to Know Hazardous Substance List

Methanol	67-56-1	sn 1222
Organic Acid	XXXXX-XX-X	sn 0822

U.S. - Pennsylvania - RTK (Right to Know) List

Methanol	67-56-1	Environmental hazard
Organic Acid	XXXXX-XX-X	Environmental hazard

U.S. - Rhode Island - Hazardous Substance List

Methanol	67-56-1	Toxic; Flammable
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U.S. - Texas - Effects Screening Levels - Long Term

Methanol	67-56-1	200 ppb ESL; 262 µg/m3 ESL
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U.S. - Texas - Effects Screening Levels - Short Term

Methanol	67-56-1	2000 ppb ESL; 2620 µg/m3 ESL
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16. Other Information

HMIS® ratings

Health: 3
Flammability: 1
Physical hazard: 1

NFPA ratings

Health: 3
Flammability: 1
Instability: 1

Prepared by

Amanda L. Ruston
4420 South Flores Road
Elmendorf, Texas 78112
210-626-0850

Disclaimer

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US, AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.



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Material Safety Data Sheet

MIDFLOC 300 FLOCCULANT

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

1. Product and Company Identification

Material name	MIDFLOC 300 FLOCCULANT
Patent Number	Not available
Revision date	August-18-2008
Version No.	1
CAS #	Mixture
Product use	Water Treatment
Emergency	CHEMTREC 800-424-9300/703-527-3887
Supplier information	Midwest Custom Chemicals, Inc. P.O. Box 727 Newburgh, IN 47629 US

2. Hazards Identification

Emergency overview	Health injuries are not known or expected under normal use. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
OSHA regulatory status	This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential environmental effects	Ecological injuries are not known or expected under normal use.

3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. First Aid Measures

First aid procedures	
Eye contact	If in eyes, rinse with water for 15 minutes. Get medical attention if irritation develops or persists.
Inhalation	Oxygen or artificial respiration if needed. Call a physician if symptoms develop or persist.
Ingestion	Have victim rinse mouth thoroughly with water. If ingestion of a large amount does occur, seek medical attention.
General advice	If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

Flammable properties	Not a fire hazard. The product is not flammable.
Extinguishing media	
Suitable extinguishing media	Water. Dry chemical, CO2, water spray or regular foam.



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**Protection of firefighters****Protective equipment and precautions for firefighters**

Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

6. Accidental Release Measures**Personal precautions**

Local authorities should be advised if significant spillages cannot be contained. Keep unnecessary personnel away.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Sweep up or gather material and place in appropriate container for disposal. Avoid dust formation. After removal flush contaminated area thoroughly with water.

Other information

Clean up in accordance with all applicable regulations.

7. Handling and Storage**Handling**

Handle and open container with care.

Storage

Use care in handling/storage.

8. Exposure Controls / Personal Protection**Personal protective equipment****General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	Granular.
Color	Off-white.
Odor	odourless
Odor threshold	Not available
Physical state	Solid.
Form	Solid.
pH	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	0.95 - 0.95
Relative density	0.9499 g/cm3 estimated



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Solubility (water)	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
VOC	10 - 13 %

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Incompatible materials	None known.

11. Toxicological Information

Sensitization	Not expected to be hazardous by OSHA criteria.
Chronic effects	Not expected to be hazardous by OSHA criteria.
Carcinogenicity	Not expected to be hazardous by OSHA criteria.
Neurological effects	Not expected to be hazardous by OSHA criteria.
Further information	This product has no known adverse effect on human health.

12. Ecological Information

Ecotoxicity	This product has no known eco-toxicological effects.
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13. Disposal Considerations

Disposal instructions	This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.
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14. Transport Information

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations	This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. CERCLA/SARA Hazardous Substances - Not applicable.
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Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical No

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other Information

HMIS® ratings

Health: 0
Flammability: 0
Physical hazard: 0

NFPA ratings

Health: 0
Flammability: 0
Instability: 0

Prepared by

Naser S. Hussaini
515 Post Oak Blvd
+1-713-693-7706

Issue date

August-18-2008



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Material Safety Data Sheet

WEB 1523

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	1
PERSONAL PROTECTION	H

1. Product and Company Identification

Material name	WEB 1523
Patent Number	Not available
Revision date	August-11-2008
Version No.	1
CAS #	Mixture
Product use	Water Treatment
Manufacturer information	Midwest Custom Chemicals, Inc. P.O. Box 727 Newburgh, IN 47629 US 812-858-3147 CHEMTREC 800-424-9300/703-527-3887
Emergency	CHEMTREC 800-424-9300/703-527-3887
Supplier information	Midwest Custom Chemicals, Inc. P.O. Box 727 Newburgh, IN 47629 US

2. Hazards Identification

Emergency overview	DANGER
OSHA regulatory status	Corrosive. Causes skin and eye burns. Harmful if swallowed. Irritating to respiratory system. Prolonged exposure may cause chronic effects. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Components of the product may be absorbed into the body by inhalation, ingestion and through the skin.
Potential health effects	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Routes of exposure	Ingestion. Inhalation. Skin contact. Eye contact.
Eyes	This product causes eye burns. Risk of serious damage to eyes. Do not get this material in contact with eyes.
Skin	Causes skin burns. Do not get this material in contact with skin.
Inhalation	Causes burns. Prolonged inhalation may be harmful. Irritating to respiratory system. Do not breathe dust/fume/gas/mist/vapors/spray.
Ingestion	Harmful if swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract. May cause delayed lung damage. Do not ingest. Components of the product may be absorbed into the body by ingestion.
Target organs	Lungs. Respiratory system. Skin.
Chronic effects	Shortness of breath. May cause delayed lung damage.



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Signs and symptoms Discomfort in the chest, Shortness of breath, Cough.
Potential environmental effects May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Inorganic Salt	Mixture	30 - 60

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin contact Immediately flush skin with plenty of water. Get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin.

Inhalation Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Get medical attention immediately.

Ingestion Do not induce vomiting without medical advice. Get medical attention immediately.

Notes to physician In case of shortness of breath, give oxygen. Keep victim warm. Symptoms may be delayed.

General advice In case of shortness of breath, give oxygen. Keep victim warm. Call a physician if symptoms develop or persist. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties Not a fire hazard. The product is not flammable.

Extinguishing media

Suitable extinguishing media Foam. Dry chemical.

6. Accidental Release Measures

Personal precautions Local authorities should be advised if significant spillages cannot be contained. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away. Stay upwind. Keep out of low areas.

Environmental precautions Prevent further leakage or spillage if safe to do so.

Methods for containment Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up Should not be released into the environment.

Large Spills: Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

Never return spills in original containers for re-use.



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7. Handling and Storage

Handling	Do not breathe vapors or spray mist. Use only with adequate ventilation. Avoid release to the environment. Avoid prolonged exposure.
Storage	Keep tightly closed in a dry, cool and well-ventilated place. Store in accordance with local/regional/national/international regulation.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components	CAS #	TWA	STEL	Ceiling
Inorganic Salt	Mixture	2 mg/m3	Not established	Not established

Engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Personal protective equipment

Eye / face protection

Do not get this material in contact with eyes. Wear chemical goggles. Face-shield.

Skin protection

Do not get this material in contact with skin. Do not get this material on clothing. Wear chemical protective equipment that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent). Protective gloves. Impervious gloves. Structural firefighters protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Wear positive pressure self-contained breathing apparatus (SCBA).

General hygiene considerations

Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not get this material on clothing. When using do not eat or drink. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling and before eating.

9. Physical & Chemical Properties

Appearance	Clear.
Color	Not available
Odor	Not available
Odor threshold	Not available
Physical state	Liquid.
Form	Liquid.
pH	Not available
Melting point	32 °F (0 °C) estimated
Freezing point	Not available
Boiling point	212 °F (100 °C) estimated
Flash point	Not available
Evaporation rate	Not available
Flammability	Not available.



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Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.4018 estimated
Relative density	1.4017 g/cm3 estimated
Solubility (water)	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Incompatible materials	Water. Alcohols.
Hazardous decomposition products	Irritants. Toxic gas. May include oxides of nitrogen. May include oxides of phosphorus.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Acute effects	Acute LD50: 1450 mg/kg estimated, Rat, Oral Acute LD50: 7635 mg/kg estimated, Rat, Dermal Causes burns.
Component analysis - LD50	
Toxicology Data - Selected LD50s and LC50s	
Inorganic Salt	Mixture Oral LD50 Rat: 380 mg/kg; Dermal LD50 Rabbit: >2 g/kg
Local effects	Irritating to respiratory system.
Chronic effects	Hazardous by OSHA criteria. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects.
Carcinogenicity	Not expected to be hazardous by OSHA criteria.
Neurological effects	Not expected to be hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity	LC50 103 mg/L estimated, Fish, 96.00 Hours, EC50 14.89 mg/L estimated, Daphnia, 48.00 Hours, Components of this product have been identified as having potential environmental concerns.
Ecotoxicity - Freshwater Fish Species Data	
Inorganic Salt	Mixture 96 Hr LC50 Gambusia affinis: 27.1 mg/L
Ecotoxicity - Water Flea Data	
Inorganic Salt	Mixture 48 Hr EC50 Daphnia magna: 3.9 mg/L



**Environmental effects****Ecotoxicity - Freshwater Fish Species Data**

Inorganic Salt	Mixture	96 Hr LC50 Gambusia affinis: 27.1 mg/L
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Ecotoxicity - Water Flea Data

Inorganic Salt	Mixture	48 Hr EC50 Daphnia magna: 3.9 mg/L
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13. Disposal Considerations**Disposal instructions**

Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

14. Transport Information**Department of Transportation (DOT) Requirements****Basic shipping requirements:**

Proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (Inorganic Salt)
Hazard class	8
UN number	UN3264
Packing group	II

Additional information:

Special provisions	A6, B2, IB2, T11, TP2, TP27
Packaging exceptions	154
Packaging non bulk	202
Packaging bulk	242
ERG number	154

**Department of Transportation (DOT) Requirements****Bulk****Basic shipping requirements:**

Proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (Inorganic Salt)
Hazard class	8
UN number	UN3264
Packing group	II

Additional information:

Special provisions	A6, B2, IB2, T11, TP2, TP27
Packaging exceptions	154
Packaging non bulk	202
Packaging bulk	242
ERG number	154



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IMDG

Basic shipping requirements:

Proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Inorganic Salt)
Hazard class	8
Subsidiary hazard class	•
UN number	3264
Packing group	II



IATA

Basic shipping requirements:

Proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (Inorganic Salt)
Hazard class	8
UN number	3264
Packing group	II



15. Regulatory Information

Labelling

Contains Inorganic Salt

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes



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**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

International regulations**Canada - WHMIS - Ingredient Disclosure List**

Inorganic Salt Mixture 1 %

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - Massachusetts - Right To Know List

Inorganic Salt Mixture Present

U.S. - Minnesota - Hazardous Substance List

Inorganic Salt Mixture Present

U.S. - New Jersey - Right to Know Hazardous Substance List

Inorganic Salt Mixture sn 0057

U.S. - Pennsylvania - RTK (Right to Know) List

Inorganic Salt Mixture Present (dust, as Al)

U.S. - Rhode Island - Hazardous Substance List

Inorganic Salt Mixture Flammable

U.S. - Texas - Effects Screening Levels - Long Term

Inorganic Salt Mixture 2 µg/m3 ESL

U.S. - Texas - Effects Screening Levels - Short Term

Inorganic Salt Mixture 20 µg/m3 ESL

16. Other Information**HMIS® ratings**

Health: 3
Flammability: 0
Physical hazard: 1
Personal protection: H

NFPA ratings

Health: 3
Flammability: 0
Instability: 1

Prepared by

Naser S. Hussaini
515 Post Oak Blvd
+1-713-693-7706

Disclaimer

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Issue date

August-11-2008



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Material Name: WEB 1523 Version Number: 01

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Engineered Chemistry™

Material Safety Data Sheet**WEB 42A**

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

1. Product and Company Identification

Material name	WEB 42A
Patent Number	Not available
Version No.	1
CAS #	Mixture
Product use	Water Treatment
Manufacturer information	Midwest Custom Chemicals, Inc. P.O. Box 727 Newburgh, IN 47629 US 812-858-3147 CHEMTREC 800-424-9300/703-527-3887
Emergency	CHEMTREC 800-424-9300/703-527-3887
Supplier information	Midwest Custom Chemicals, Inc. P.O. Box 727 Newburgh, IN 47629 US

2. Hazards Identification

Emergency overview	Contact with skin may cause irritation. Contact with eyes may cause irritation. Health injuries are not known or expected under normal use.
OSHA regulatory status	This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential environmental effects	Ecological injuries are not known or expected under normal use.

3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. First Aid Measures**First aid procedures**

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops or persists.
Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice.
General advice	If you feel unwell, seek medical advice (show the label where possible).



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5. Fire Fighting Measures

Flammable properties	Not a fire hazard. The product is not flammable.
Extinguishing media	
Suitable extinguishing media	Dry chemical, CO2, water spray or regular foam.
Protection of firefighters	
Protective equipment and precautions for firefighters	Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

6. Accidental Release Measures

Personal precautions	Local authorities should be advised if significant spillages cannot be contained. Keep unnecessary personnel away.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
Methods for containment	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.
Methods for cleaning up	<p>Large Spills: Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. After removal flush contaminated area thoroughly with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.</p> <p>Never return spills in original containers for re-use.</p>

7. Handling and Storage

Handling	Use only with adequate ventilation. Use care in handling/storage. Wash thoroughly after handling. Avoid prolonged exposure.
Storage	Store in a closed container away from incompatible materials. Store in accordance with local/regional/national/international regulation.

8. Exposure Controls / Personal Protection

Engineering controls	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	Not available
Color	Clear.
Odor	Not available
Odor threshold	Not available
Physical state	Liquid.
Form	Liquid.
pH	Neutral
Melting point	Not available



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Freezing point	28 °F (-2.2 °C)
Boiling point	212 °F (100 °C) estimated
Flash point	> 200 F
Evaporation rate	Not available
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1 - 1.04
Relative density	1.0199 g/cm3 estimated
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Incompatible materials	None known.

11. Toxicological Information

Sensitization	Not expected to be hazardous by OSHA criteria.
Chronic effects	Not expected to be hazardous by OSHA criteria.
Carcinogenicity	Not expected to be hazardous by OSHA criteria.
Neurological effects	Not expected to be hazardous by OSHA criteria.
Further information	This product has no known adverse effect on human health.

12. Ecological Information

Ecotoxicity	This product has no known eco-toxicological effects.
-------------	------------------------------------------------------

13. Disposal Considerations

Disposal instructions	This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.
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14. Transport Information

Department of Transportation (DOT) Requirements	Not regulated as dangerous goods.
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Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical No

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other Information

HMIS® ratings

Health: 1
Flammability: 0
Physical hazard: 0

NFPA ratings

Health: 1
Flammability: 0
Instability: 0



...A Weatherford Company



Engineered Chemistry™

Prepared by

Amanda L. Ruston
4420 South Flores Road
Elmendorf, Texas 78112
210-626-0850

Disclaimer

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US, AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.

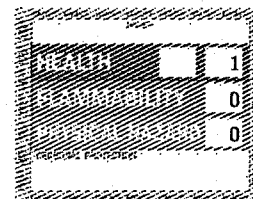


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Engineered Chemistry™

Material Safety Data Sheet

MIDFLOC 400**1. Product and Company Identification**

Material name	MIDFLOC 400
Patent Number	Not available
Revision date	August-05-2008
Version No.	1
CAS #	Mixture
Product use	Flocculant
Emergency	CHEMTREC 800-424-9300/703-527-3887
Supplier information	Midwest Custom Chemicals, Inc. P.O. Box 727 Newburgh, IN 47629 US

2. Hazards Identification**Emergency overview**

CAUTION

Contact may irritate or burn eyes. Contact may irritate or burn skin. Health injuries are not known or expected under normal use. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA regulatory status

This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects**Eyes**

Contact with eyes may cause irritation.

Skin

May cause skin irritation and/or dermatitis.

Ingestion

May cause temporary irritation of the throat, stomach, and gastrointestinal tract.

Potential environmental effects

May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. First Aid Measures**First aid procedures****Eye contact**

If in eyes, rinse with water for 15 minutes. Get medical attention if irritation develops or persists.

Skin contact

Before washing use a dry brush to remove dust from skin. Get medical attention if irritation develops or persists.

Inhalation

If breathing is difficult, give oxygen. Call a physician if symptoms develop or persist.



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Ingestion

Have victim rinse mouth thoroughly with water. If ingestion of a large amount does occur, seek medical attention.

General advice

If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures**Flammable properties**

Not a fire hazard. The product is not flammable.

Extinguishing media**Suitable extinguishing media**

Water. Dry chemical, CO2, water spray or regular foam.

Protection of firefighters**Specific hazards arising from the chemical**

Not a fire hazard.

Protective equipment and precautions for firefighters

Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

6. Accidental Release Measures**Personal precautions**

Local authorities should be advised if significant spillages cannot be contained. Keep unnecessary personnel away.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Should not be released into the environment. Sweep up or gather material and place in appropriate container for disposal. Avoid dust formation. After removal flush contaminated area thoroughly with water.

Other information

Clean up in accordance with all applicable regulations.

7. Handling and Storage**Handling**

Avoid release to the environment. Handle and open container with care.

Storage

Use care in handling/storage.

8. Exposure Controls / Personal Protection**Personal protective equipment****Eye / face protection**

Safety glasses.

Respiratory protection

When respiratory protection is required, wear a NIOSH/MSHA approved self-contained breathing apparatus with full facepiece operated in a positive-pressure mode.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties**Appearance**

Granular.

Color

off-white

Odor

Odorless.

Odor threshold

Not available

Physical state

Solid.

Form

Solid.

pH

5 - 7

Melting point

Not available



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Freezing point	Not available
Boiling point	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	0.75 - 0.95
Relative density	0.8499 g/cm3 estimated
Solubility (water)	Limited to viscosity
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
VOC	10 - 13 %

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.
Incompatible materials	oxidizing agents strong acids

11. Toxicological Information

Sensitization	Not expected to be hazardous by OSHA criteria.
Chronic effects	Not expected to be hazardous by OSHA criteria.
Carcinogenicity	Not expected to be hazardous by OSHA criteria.
Neurological effects	Not expected to be hazardous by OSHA criteria.
Further information	This product has no known adverse effect on human health.

12. Ecological Information

Ecotoxicity	LC50 342 g/l, Acarta Tonsa, 48.00 Hours, LC50 2276 mg/l, Algae, 72.00 Hours, LC50 1415 mg/l, Skeletonema Costatum, 10.00 Days, Components of this product have been identified as having potential environmental concerns.
-------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



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13. Disposal Considerations

Disposal instructions

Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

14. Transport Information

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical No

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical

No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)



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State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other Information**HMIS® ratings**

Health: 1
Flammability: 0
Physical hazard: 0

NFPA ratings

Health: 1
Flammability: 0
Instability: 0

Prepared by

Naser S. Hussaini
515 Post Oak Blvd
+1-713-693-7706

Disclaimer

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US, AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.

Issue date

August-05-2008



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Material Safety Data Sheet

DG 122

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

1. Product and Company Identification

Material name DG 122
Patent Number Not available
Version No. 1
CAS # Mixture
Product use Cleaner/Degreaser
Manufacturer information Midwest Custom Chemicals, Inc.
P.O. Box 727
Newburgh, IN 47629 US
812-858-3147
CHEMTREC 800-424-9300/703-527-3887
Emergency CHEMTREC 800-424-9300/703-527-3887
Supplier information Midwest Custom Chemicals, Inc.
P.O. Box 727
Newburgh, IN 47629 US

2. Hazards Identification

Emergency overview Avoid prolonged contact with eyes, skin and clothing. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential environmental effects May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.
Skin contact Immediately flush skin with plenty of water. Get medical attention if irritation develops or persists.
Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.
Ingestion If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice.

General advice If you feel unwell, seek medical advice (show the label where possible).



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5. Fire Fighting Measures

Flammable properties

Combustible by OSHA criteria. Containers may explode when heated. Runoff to sewer may cause fire or explosion hazard.

Extinguishing media**Suitable extinguishing media**

Dry chemical, CO₂, water spray or regular foam.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters**Protective equipment and precautions for firefighters**

In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Move containers from fire area if you can do it without risk. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

6. Accidental Release Measures

Personal precautions

Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away. Stay upwind. Keep out of low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Should not be released into the environment.

Large Spills: Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. After removal flush contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

Never return spills in original containers for re-use.

7. Handling and Storage

Handling

Use only with adequate ventilation. Avoid release to the environment. Do not get this material on clothing. Wash thoroughly after handling.

Storage

Store in a closed container away from incompatible materials. Store in accordance with local/regional/national/international regulation.

8. Exposure Controls / Personal Protection

Engineering controls

Ensure adequate ventilation, especially in confined areas.



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**Personal protective equipment****General hygiene considerations**

When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	Not available
Color	Not available
Odor	Not available
Odor threshold	Not available
Physical state	Liquid.
Form	Liquid.
pH	10
Melting point	32 °F (0 °C) estimated
Freezing point	28 °F (-2.2 °C)
Boiling point	230 °F (110 °C)
Flash point	> 200F
Evaporation rate	Not available
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1 @ 70F
Relative density	0.9999 g/cm3 estimated
Solubility (water)	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	None known.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Acute effects	Acute LD50: 28071 mg/kg estimated, Rat, Oral Acute LC50: 269 mg/l/4h estimated, Rat, Inhalation
Sensitization	Not expected to be hazardous by OSHA criteria.
Chronic effects	Not expected to be hazardous by OSHA criteria.



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Carcinogenicity	Not expected to be hazardous by OSHA criteria.
Neurological effects	Not expected to be hazardous by OSHA criteria.
Further information	This product has no known adverse effect on human health.

12. Ecological Information

Ecotoxicity	LC50 465 mg/L estimated, Fish, 96.00 Hours, EC50 318 mg/L estimated, Daphnia, 48.00 Hours, Components of this product have been identified as having potential environmental concerns.
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13. Disposal Considerations

Disposal instructions	Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.
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14. Transport Information

Department of Transportation (DOT) Requirements

Not regulated as hazardous goods.

Department of Transportation (DOT) Requirements

Bulk

Not regulated as hazardous goods.

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as hazardous goods.

IMDG

Not regulated as hazardous goods.

IATA

Not regulated as hazardous goods.

15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous No
chemical

CERCLA (Superfund) reportable quantity

None



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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations WARNING: This product contains a chemical known to the State of California to cause cancer.

16. Other Information

HMIS® ratings
Health: 1
Flammability: 1
Physical hazard: 0

NFPA ratings
Health: 1
Flammability: 1
Instability: 0

Prepared by
Amanda L. Ruston
4420 South Flores Road
Elmendorf, Texas 78112
210-626-0850



....A Weatherford Company



ENVIRONMENTAL SERVICES

14 May 2010

Miami-Dade County Fire Department
c/o Hazmat Bureau
9300 Northwest 41st Street
Miami, FL 33178
Attn: Lt. Howard Vollick

Via Certified Mail: 7010 0290 0003 6997 9327
RETURN RECEIPT REQUESTED

Re: Raider Environmental Services Updated SPCC/Facility Response Plan

Dear Mr. Vollick:

This letter is to inform you that Raider Environmental Services, Inc. has updated the Spill Prevention Control & Countermeasure Plan and Facility Response Plan for our Wastewater Treatment Facility located at 4103 Northwest 132nd Street in Opa-Locka. As we have changed the format and information in this plan, please discard any other Plan that you may have.

If you have any questions or require additional information, please do not hesitate to contact me at (305) 994-9949.

Sincerely,

Brandon G. Dow, CHMM
Vice-President

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Sent To: Miami-Dade Co. Fire Dept. Lt. Howard Vollick	
Street, Apt. No., or PO Box No. 9300 N.W. 41 st Street	
City, State, ZIP+4 Miami, FL 33178	
PS Form 3800, August 2006 See Reverse for Instructions	

Raider Environmental Services

4103 Northwest 132nd Street, Opa Locka, FL 33054

Dade: (305) 994-9949 Broward: (954) 316-0633 Fax: (305) 681-6175 www.raiderenvironmental.com



ENVIRONMENTAL SERVICES

14 May 2010

Miami-Dade County Police Department
2950 Northwest 83rd Street
Miami, FL 33147
Attn: Commander Garry F. Jeanniton

Via Certified Mail: 7010 0290 0003 6997 9334
RETURN RECEIPT REQUESTED


Re: Raider Environmental Services Updated SPCC/Facility Response Plan

Dear Mr. Jeanniton:

This letter is to inform you that Raider Environmental Services, Inc. has updated the Spill Prevention Control & Countermeasure Plan and Facility Response Plan for our Wastewater Treatment Facility located at 4103 Northwest 132nd Street in Opa-Locka. As we have changed the format and information in this plan, please discard any other Plan that you may have.

If you have any questions or require additional information, please do not hesitate to contact me at (305) 994-9949.

Sincerely,


Brandon G. Dow, CHMM
Vice-President

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 10.05
Postmark Here	
Sent To: Miami-Dade Co. Police Dept. Garry F. Jeanniton	
Street, Apt. No., or PO Box No. 2950 N.W. 83 ST.	
City, State, ZIP+4 Miami, FL 33147	
PS Form 3800, August 2006 See Reverse for Instructions	

Raider Environmental Services

4103 Northwest 132nd Street, Opa Locka, FL 33054

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ENVIRONMENTAL SERVICES

14 May 2010

Opa-Locka Police Department
2495 Ali Baba Ave.
Opa-Locka, FL 33054
Attn: Chief Cheryl Cason

Via Certified Mail: 7010 0290 0003 6997 9310
RETURN RECEIPT REQUESTED

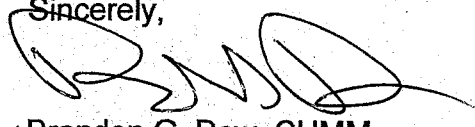
Re: Raider Environmental Services Updated SPCC/Facility Response Plan

Dear Ms. Cason:

This letter is to inform you that Raider Environmental Services, Inc. has updated the Spill Prevention Control & Countermeasure Plan and Facility Response Plan for our Wastewater Treatment Facility located at 4103 Northwest 132nd Street in Opa-Locka. As we have changed the format and information in this plan, please discard any other Plan that you may have.

If you have any questions or require additional information, please do not hesitate to contact me at (305) 994-9949.

Sincerely,


Brandon G. Dow, CHMM
Vice-President

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Total Postage & Fees	\$ 10.05
Postmark Here	
Sent To: Opa-Locka Police Dept. Chief Cheryl Cason	
Street, Apt. No., or PO Box No.: 2495 Ali Baba Ave.	
City, State, ZIP+4: Opa-Locka, FL 33054	
PS Form 3800, August 2006 See Reverse for Instructions	

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Raider Environmental Services

4103 Northwest 132nd Street, Opa Locka, FL 33054

Dade: (305) 994-9949 Broward: (954) 316-0633 Fax: (305) 681-6175 www.raiderenvironmental.com



ENVIRONMENTAL SERVICES

14 May 2010

Florida Department of Environmental Protection
c/o Southeast District Hazardous Waste Compliance/Enforcement Section
400 North Congress Ave.
Suite 200
West Palm Beach, FL 33401
Attn: Kathy Winston

Via Certified Mail: 7010 0290 0003 6997 9419
RETURN RECEIPT REQUESTED

Re: Raider Environmental Services Updated SPCC/Facility Response Plan

Dear Mr. Burghart:

This letter is to inform you that Raider Environmental Services, Inc. has updated the Spill Prevention Control & Countermeasure Plan and Facility Response Plan for our Wastewater Treatment Facility located at 4103 Northwest 132nd Street in Opa-Locka. As we have changed the format and information in this plan, please discard any other Plan that you may have.

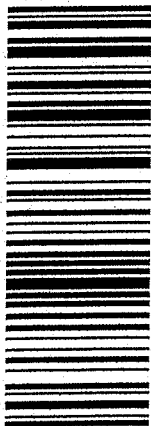
If you have any questions or require additional information, please do not hesitate to contact me at (305) 994-9949.

Sincerely,


Brandon G. Dow, CHMM
Vice-President

7010 0290 0003 6997 9419

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 10.05
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Sent To: <i>Attn: Kathy Winston</i>	
Street, Apt. No., or PO Box No. <i>400 N. Congress Ave. Ste 200</i>	
City, State, ZIP+4 [®] <i>West Palm Bch, FL 33401</i>	
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Raider Environmental Services

4103 Northwest 132nd Street, Opa Locka, FL 33054

Dade: (305) 994-9949 Broward: (954) 316-0633 Fax: (305) 681-6175 www.raiderenvironmental.com



ENVIRONMENTAL SERVICES

14 May 2010

Miami-Dade Department of Environmental Resources Management
c/o Environmental Evaluation and Compliance Section
701 Northwest 1st Court
7th Floor
Miami, FL 33136
Attn: Michael Montano

Via Certified Mail: 7010 0290 0003 6997 9426
RETURN RECEIPT REQUESTED

Re: Raider Environmental Services Updated SPCC/Facility Response Plan

Dear Mr. Montano:

This letter is to inform you that Raider Environmental Services, Inc. has updated the Spill Prevention Control & Countermeasure Plan and Facility Response Plan for our Wastewater Treatment Facility located at 4103 Northwest 132nd Street in Opa-Locka. As we have changed the format and information in this plan, please discard any other Plan that you may have.

If you have any questions or require additional information, please do not hesitate to contact me at (305) 994-9949.

Sincerely,


Brandon G. Dow, CHMM
Vice-President

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 10.05
Postmark Here	
Sent to: <i>Miami Dade - DEEM</i>	
c/o <i>Envir. Eval. + Compliance Section</i>	
Street, Apt. No. or PO Box No. <i>701 N.W. 1ST CT. - 7th Fl.</i>	
City, State, ZIP+4 <i>Miami, FL 33136</i>	
PS Form 3800, August 2006	
See Reverse for Instructions	

Raider Environmental Services

4103 Northwest 132nd Street, Opa Locka, FL 33054

Dade: (305) 994-9949 Broward: (954) 316-0633 Fax: (305) 681-6175 www.raiderenvironmental.com



ENVIRONMENTAL SERVICES

14 May 2010

Hialeah Hospital
651 East 25th Street
Hialeah, FL 33013
Attn: Steven Burghart

Via Certified Mail: 7010 0290 0003 6997 9389
RETURN RECEIPT REQUESTED

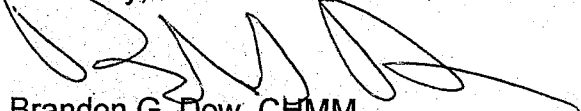
Re: Raider Environmental Services Updated SPCC/Facility Response Plan


Dear Mr. Burghart:

This letter is to inform you that Raider Environmental Services, Inc. has updated the Spill Prevention Control & Countermeasure Plan and Facility Response Plan for our Wastewater Treatment Facility located at 4103 Northwest 132nd Street in Opa-Locka. As we have changed the format and information in this plan, please discard any other Plan that you may have.

If you have any questions or require additional information, please do not hesitate to contact me at (305) 994-9949.

Sincerely,


Brandon G. Dow, CHMM
Vice-President

7010 0290 0003 6997 9433		7010 0290 0003 6997 9433	
PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE.		7010 0290 0003 6997 9433	
CERTIFIED MAIL™		7010 0290 0003 6997 9433	
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		7010 0290 0003 6997 9433	
U.S. Postal Service™			
CERTIFIED MAIL™ RECEIPT			
(Domestic Mail Only; No Insurance Coverage Provided)			
For delivery information visit our website at www.usps.com ®			
OFFICIAL USE			
Postage	\$ 4.95	Postmark Here	
Certified Fee	2.80		
Return Receipt Fee (Endorsement Required)	2.30		
Restricted Delivery Fee (Endorsement Required)			
Total Postage & Fees	\$ 10.05		
Sent to <u>Hialeah Hospital - Steven Burghart</u>			
Street, Apt. No., or PO Box No. <u>651 East 25th Street</u>			
City, State, ZIP+4 <u>Hialeah, FL 33013</u>			
PS Form 3800, August 2006 See Reverse for Instructions			

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