



From: Mark Torrez
Sent: Thu Jun 24 22:41:19 2010
To: captvirgil@yahoo.com; Crabbs, William D
Cc: Barker, Gary W; Christopher, Scott T
Subject: Re: MC 252 Vessel Required Documents
Importance: Normal
Attachments: Natural Gas.pdf; MC252 Weathered Crude Oil_Gulf of Mexico Spill_Final.pdf; BP crude
-sweet MSDS.pdf; Corexit R_EC9527A_MSDS.pdf; Corexit R_EC9500A_MSDS.pdf

Done!
Thanks!

Mark Torrez, BEE, OSC, ERM
BP HSE Advisor / CSPI
Mark.Torrez@bp.com
fedsafetyenv@yahoo.com
(361) 510-6804
(361) 992-9968

--- On Thu, 6/24/10, Mark Torrez <fedsafetyenv@yahoo.com> wrote:

From: Mark Torrez <fedsafetyenv@yahoo.com>
Subject: Re: MC 252 Vessel Required Documents
To: captvirgil@yahoo.com, crabbswd@bp.com
Cc: "Gary Barker" <Gary.Barker@bp.com>, "Scott T Christopher" <Scott.Christopher@bp.com>
Date: Thursday, June 24, 2010, 5:38 PM

and More

Mark Torrez, BEE, OSC, ERM
BP HSE Advisor / CSPI
Mark.Torrez@bp.com
fedsafetyenv@yahoo.com
(361) 510-6804
(361) 992-9968

--- On Thu, 6/24/10, Mark Torrez <fedsafetyenv@yahoo.com> wrote:

From: Mark Torrez <fedsafetyenv@yahoo.com>

Subject: MC 252 Vessel Required Documents
To: captvirgil@yahoo.com, crabbswd@bp.com
Cc: "Gary Barker" <Gary.Barker@bp.com>, "Scott T Christopher" <Scott.Christopher@bp.com>
Date: Thursday, June 24, 2010, 4:49 PM

Gentlemen,

I am sending you the require MC252 Vessel Documents which will need to be given to the PIC or HSE onboard. It may take a couple of e-mails to get you all of them.

Regards
Mark

Mark Torrez, BEE, OSC, ERM
BP HSE Advisor / CSPI
Mark.Torrez@bp.com
fedsafetyenv@yahoo.com
(361) 510-6804
(361) 992-9968

Material Safety Data Sheet



1. Chemical product and company identification

Product name NATURAL GAS
MSDS # 0000001409
Historic MSDS #: 06656, 12011
Code 0000001409
Product use Fuel.
Supplier BP Energy Company
501 WestLake Park Boulevard
Houston, TX 77079
USA
EMERGENCY HEALTH
INFORMATION: 1 (800) 447-8735
Outside the US: +1 703-527-3887 (CHEMTREC)
EMERGENCY SPILL
INFORMATION: 1 (800) 424-9300 CHEMTREC (USA)
OTHER PRODUCT
INFORMATION 1 (866) 4 BP - MSDS
(866-427-6737 Toll Free - North America)
email: bpcares@bp.com

2. Composition/information on ingredients

This product does not contain any hazardous ingredients at or above regulated thresholds.

3. Hazards identification

Physical state Compressed Gas

Color Colorless.

Emergency overview

Flammable gas. Vapor may cause flash fire.
Inhalation causes headaches, dizziness, drowsiness, and nausea, and may lead to unconsciousness.
At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
Extremely cold material; can cause burns similar to frostbite.
Avoid contact with skin and clothing. Do not breathe vapor or mist. Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Routes of entry Dermal contact. Eye contact. Inhalation.

Potential health effects

Eyes Liquid can cause burns similar to frostbite.

Skin Liquid can cause burns similar to frostbite.

Inhalation Inhalation causes headaches, dizziness, drowsiness, and nausea, and may lead to unconsciousness. At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.

Ingestion Not applicable (gas).

Product name	NATURAL GAS	Product code	0000001409	Page:	1/6
Version 1	Date of issue 06/09/2006.	Format US	Language ENGLISH.		
		Build 4.2.8	(ENGLISH)		

See toxicological information (section 11).

4. First aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin contact	Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. Fire-fighting measures

Flammability of the product	Flammable.
Auto-ignition temperature	538 °C
Flash point	-188 °C
Explosion limits	Lower: 5 % Upper: 15 %
Products of combustion	These products are carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide).
Unusual fire/explosion hazards	Flammable gas and vapor. Gas may accumulate in confined areas, travel considerable distance to source of ignition and flash back causing fire or explosion. Hot containers may explode. This material is not explosive as defined by established regulatory criteria.
Protective clothing (fire)	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
Special remarks on fire hazards	Forms explosive mixtures in air.

6. Accidental release measures

Personal precautions	Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (See Section: "Exposure controls/personal protection"). Follow all fire fighting procedures (See Section: "Fire-fighting measures"). Do not touch or walk through spilled material.
Environmental precautions and clean-up methods	If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Avoid contact of spilled material with soil and prevent runoff entering surface waterways. See Section 13 for Waste Disposal Information.
Personal protection in case of a large spill	Splash goggles. Full suit. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

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				Language	ENGLISH.
			Build 4.2.9		(ENGLISH)

7. Handling and storage

Handling	Extremely hazardous liquid and vapor under pressure. Do not puncture or incinerate container.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Empty containers may contain harmful, flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards.

8. Exposure controls/personal protection

Occupational exposure limits

This product does not have any assigned OELs.

Control Measures	Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
Personal protection	
Eyes	Avoid contact with eyes. Chemical splash goggles. Face shield.
Skin and body	Avoid contact with skin and clothing. Wear clothing and footwear that cannot be penetrated by chemicals or oil.
Respiratory	Use only with adequate ventilation. Do not breathe vapor or mist. If operating conditions cause high vapor concentrations or TLV is exceeded, use NIOSH certified supplied-air respirator.
Hands	Wear suitable gloves. (Insulated gloves suitable for low temperatures) Consult your supervisor or S.O.P. for special handling directions

Consult local authorities for acceptable exposure limits.

9. Physical and chemical properties

Physical state	Compressed Gas
pH	Not applicable (gas).
Odor	Odorless, unless odorized with ethyl mercaptan (skunky odor).
Color	Colorless.
Heat of combustion	Not available.
Vapor Density (Air = 1)	0.55 to 0.6
Solubility	Insoluble in cold water.

10. Stability and reactivity

Stability and reactivity	The product is stable.
Conditions to avoid	Keep away from sources of ignition. Keep away from heat and direct sunlight. Hot containers may explode.
Incompatibility with various substances	Reactive with halogenated compounds, oxidizing agents.
Hazardous decomposition products	Products of combustion: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide)
Hazardous polymerization	Will not occur.

Product name	NATURAL GAS	Product code	0000001409	Page:	3/6
Version	1	Date of issue	06/09/2006.	Format	US
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					(ENGLISH)
			Build 4.2.8		

11. Toxicological information

Chronic toxicity

Carcinogenic effects

No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA).

Mutagenic effects

No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.

Reproductive effects

No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a reproductive toxin.

Teratogenic effects

No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.

Other information

This material is an asphyxiant. Asphyxiants may reduce the oxygen concentration in the air to dangerous levels. Symptoms of lack of oxygen include increased depth and frequency of breathing, air hunger, dizziness, headache, nausea or loss of consciousness.

12. Ecological information

Ecotoxicity

No testing has been performed by the manufacturer.

Mobility

This product is likely to volatilize rapidly into the air because of its high vapor pressure. This product is not likely to move rapidly with surface or groundwater flows because of its low water solubility of: <0.1%.

13. Disposal considerations

Waste information

Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if state or federal regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of in accordance with all applicable local and national regulations.



Remarks

The container for this product can present explosion or fire hazards, even when emptied! To avoid risk of injury, do not cut, puncture, or weld on or near this container. Since the emptied containers retain product residue, follow label warnings even after container is emptied.



Consult your local or regional authorities.

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	UN1971	Methane, compressed or Methane or Natural gas, compressed (with high methane content)	2.1	Not determined.		Not determined.
						

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				Language	ENGLISH.
					(ENGLISH)
					Build 4.2.8

TDG Classification	UN1971	Methane, compressed or Methane or Natural gas, compressed (with high methane content)	2.1	Not determined.		Not determined.
IMDG Classification	UN1971	Methane, compressed or Methane or Natural gas, compressed (with high methane content)	2.1	Not determined.		Not determined.
IATA Classification	UN1971	Methane, compressed or Methane or Natural gas, compressed (with high methane content)	2.1	Not determined.		Not determined.

15. Regulatory information

U.S. Federal regulations US INVENTORY (TSCA): Listed on inventory.

SARA 313

Form R - Reporting requirements

This product does not contain any hazardous ingredients at or above regulated thresholds.

Supplier notification

This product does not contain any hazardous ingredients at or above regulated thresholds.

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4): Hydrogen Sulfide: 100 lbs. (45.36 kg);

State regulations

Inventories

AUSTRALIAN INVENTORY (AICS): Listed on inventory.

CANADA INVENTORY (DSL): Listed on inventory.

CHINA INVENTORY (IECS): Not determined.

EC INVENTORY (EINECS): Listed on inventory.

JAPAN INVENTORY (ENCS): Not determined.

KOREA INVENTORY (ECL): Listed on inventory.

PHILIPPINE INVENTORY (PICCS): Not determined.

16. Other information

Label requirements

Flammable gas. Vapor may cause flash fire.
Inhalation causes headaches, dizziness, drowsiness, and nausea, and may lead to unconsciousness.
At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
Extremely cold material; can cause burns similar to frostbite.

Product name NATURAL GAS	Product code 0000001400	Page: 5/6
Version 1	Date of issue 06/09/2006.	Format US
		Language ENGLISH.
	Build 4.2.6	(ENGLISH)

HMIS® Rating :

Health 2 *
Flammability 4
Physical Hazard 0
Personal protection X

National Fire
Protection
Association
(U.S.A.)

**History**

Date of issue 06/09/2006.
Date of previous issue No Previous Validation.
Prepared by Product Stewardship

Notice to reader

NOTICE : This Material Safety Data Sheet is based upon data considered to be accurate at the time of its preparation. Despite our efforts, it may not be up to date or applicable to the circumstances of any particular case. We are not responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices or from hazards inherent in the nature of the product.

Product name NATURAL GAS		Product code 0000001409	Page: 6/6
Version 1	Date of issue 06/09/2006.	Format US	Language ENGLISH.
		Build 4.2.9	(ENGLISH)

CONFIDENTIAL

BP-HZN-2179MDL03320366

BPD297-022833

Material Safety Data Sheet



1. Product and company identification

Product name Mississippi Canyon 252 Weathered Crude Oil (Louisiana Light Sweet Crude)
The primary exposure hazard of weathered crude is by physical contact with the skin.

MSDS # 0000003277

Code 0000003277

Product use Oil spill recovery / cleanup.

Synonyms Crude Oil, Louisiana Sweet Crude Oil

Supplier BP America Production Company
501 WestLake Park Boulevard
Houston TX 77079

EMERGENCY HEALTH INFORMATION: 1 (800) 447-8735
Outside the US: +1 703-527-3887 (CHEMTREC)

EMERGENCY SPILL INFORMATION: 1 (800) 424-9300 CHEMTREC (USA)

OTHER PRODUCT INFORMATION 1 (866) 4 BP - MSDS
(866-427-6737 Toll Free - North America)
email: bpcares@bp.com

2. Hazards identification

Physical state Liquid / Semi-solid

Color Various colors: Brown to Black. Reddish brown, and orange.

Emergency overview WARNING !
CAUSES EYE AND SKIN IRRITATION.
Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis. May be combustible at high temperature. Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Use adequate ventilation. Do not ingest. If ingested, do not induce vomiting. Wash thoroughly after handling.

Routes of entry Skin contact. Eye contact. Inhalation. Ingestion.

Potential health effects

Eyes Causes eye irritation.

Skin Causes skin irritation. Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis. See toxicological information (section 11).

Inhalation Potential for toxic vapor exposures is very low: with the loss of the highly volatile components, weathered oil does not present an inhalation hazard.

Ingestion Causes gastrointestinal irritation and diarrhea.

See toxicological information (section 11)

Product name Mississippi Canyon 252 Weathered Crude Oil (Louisiana Light Sweet Crude)	Product code 0000003277	Page: 1/7
Version 1	Date of issue 05/18/2010.	Format US-COMP
	(US-COMP)	Language ENGLISH. (ENGLISH)

3. Composition/information on ingredients

Low molecular weight, highly volatile components are not present.

Hydrogen sulfide and sulfur dioxide have not been detected in air sampled above sources of this weathered oil.

A complex mixture of hydrocarbons consisting predominantly of paraffins, cyclic paraffins, and aromatic hydrocarbons having carbon numbers of C10 or greater.

Ingredient name	CAS #	%
Crude oil	8002-05-9	98 - 100
Contains: Naphthalene	91-20-3	<0.1

4. First aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin contact	Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion	Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

5. Fire-fighting measures

Flammability of the product	May be combustible at high temperature.
Flash point	Closed cup: >93°C (>199.4°F) ESTIMATED.
Fire/explosion hazards	May be combustible at high temperature.
Unusual fire/explosion hazards	None identified.
Extinguishing media	
Suitable	Use dry chemical, CO ₂ , water spray (fog) or foam.
Not suitable	Do not use water jet.
Fire-fighting procedures	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Hazardous combustion products	Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide) sulfur oxides (SO ₂ , SO ₃ etc.) nitrogen oxides (NO, NO ₂ etc.)
Protective clothing (fire)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Environmental precautions	Avoid material runoff and contact with soil, waterways, drains and sewers. Contact Gulf of Mexico Response: Environmental hotline and to report oiled shoreline: +1 866.448.5816
Personal protection in case of a large spill	Safety glasses with side shields or chemical goggles. Tyvek protective suit. Rubber boots. Gloves (nitrile or polyethylene). Suggested protective clothing might not be adequate. Consult a specialist before handling this product.

Methods for cleaning up

Product name	Mississippi Canyon 252 Weathered Crude Oil (Louisiana Light Sweet Crude)		Product code	0000003277	Page: 2/7
Version 1	Date of issue	05/18/2010.	Format	US-COMP (US-COMP)	Language ENGLISH. (ENGLISH)

Large spill	Contact Gulf of Mexico Response: Environmental hotline and to report oiled shoreline: +1 866.448.5816
Small spill	Contact Gulf of Mexico Response: Environmental hotline and to report oiled shoreline: +1 866.448.5816

7. Handling and storage

Handling	Put on appropriate personal protective equipment (see section 8). Workers should wash hands and face before eating, drinking and smoking. Avoid contact with eyes, skin and clothing. Do not ingest. Use with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source.
Storage	Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10). Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Occupational exposure limits

Ingredient name	Occupational exposure limits
Weathered Crude Oil	None established.
Other Applicable Exposure limit values: Mineral oil	NIOSH REL (United States). CEIL: 1800 mg/m ³ 15 minute(s). Form: All forms TWA: 350 mg/m ³ 10 hour(s). Form: All forms ACGIH TLV (United States). STEL: 10 mg/m ³ 15 minute(s). Form: OIL MIST, MINERAL TWA: 5 mg/m ³ 8 hour(s). Form: OIL MIST, MINERAL OSHA PEL (United States). TWA: 5 mg/m ³ 8 hour(s). Form: OIL MIST, MINERAL

While specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

Some states may enforce more stringent exposure limits.

Control Measures	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
Personal protection	
Eyes	Avoid contact with eyes. Safety glasses with side shields or chemical goggles.
Skin and body	Avoid contact with skin and clothing. Wear Tyvek protective suit.
Respiratory	Use adequate ventilation. If ventilation is inadequate, use a NIOSH certified P95 particulate respirator.
Hands	Wear protective gloves. (Nitrile or polyethylene) Consult your supervisor or S.O.P. for special handling instructions.

Product name	Mississippi Canyon 252 Weathered Crude Oil (Louisiana Light Sweet Crude)	Product code	0000003277	Page:	3/7
Version	1	Date of issue	05/18/2010.	Format	US-COMP
				Language	ENGLISH.
					(US-COMP) (ENGLISH)

9. Physical and chemical properties

Physical state	Liquid./ Semi-solid
Color	Various colors: Brown to Black. Reddish brown, and orange.
Odor	Petroleum Hydrocarbon [Slight]
Flash point	Closed cup: >93°C (>199.4°F) ESTIMATED.
Specific gravity	<1 [Water = 1]
Solubility	insoluble in water.

10. Stability and reactivity

Stability and reactivity	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Avoid all possible sources of ignition (spark or flame). Avoid excessive heat.
Incompatibility with various substances	Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide) sulfur oxides (SO ₂ , SO ₃ etc.) nitrogen oxides (NO, NO ₂ etc.)
Hazardous polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.

11. Toxicological information

Classification

Product/ingredient name	IARC	NTP	OSHA
Crude oil	3	-	-

IARC :

3 - Not classifiable as a human carcinogen.

Other information

Crude oil is a naturally occurring complex mixture of hydrocarbons whose exact composition and physical properties can vary widely depending upon its source. Weathered crude oil is different from complete crude oil due to the loss of low molecular weight, highly volatile components.

Specific toxicity tests have not been conducted on this material. Our hazard evaluation is based on information from similar materials, the ingredients, technical literature, and/or professional experience.

Exposure to sunlight may increase the degree of skin irritation.
Crude oil administered orally or dermally to pregnant rats during gestation produced increased numbers of resorptions and decreases in fetal weight. Repeated exposures to some crude oils in rats have produced effects on the blood, liver and thymus.

From skin-painting studies in laboratory animals, it has been concluded that most, if not all, petroleum crudes, regardless of source, possess carcinogenic activity to some degree. This means that workers who practice poor personal hygiene and who are repeatedly exposed by direct skin contact to crude oil over many years may potentially be at risk of developing skin cancer. However, intermittent or occasional skin contact with petroleum crude oils is not expected to have serious health effects as long as good personal hygiene measures such as those outlined in this material safety data sheet are followed. Crude oil has not been identified as a carcinogen by NTP, IARC or OSHA.

Potential chronic health effects

Carcinogenicity	No known significant effects or critical hazards.
Medical conditions aggravated by over-exposure	Individuals with preexisting disease of the skin may be at increased risk from exposure to this chemical.

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Version 1	Date of issue	05/18/2010.	Format	US-COMP (US-COMP)	Language ENGLISH. (ENGLISH)

12. Ecological information

Ecotoxicity

No testing has been performed by the manufacturer.

13. Disposal considerations

Waste Information

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid material runoff and contact with soil, waterways, drains and sewers.

NOTE: The generator of waste has the responsibility for proper waste identification (based on characteristic(s) or listing), transportation and disposal

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	---	Proper classification to be determined at the time of shipment	---	-	-
TDG Classification	---	Proper classification to be determined at the time of shipment	---	-	-
IMDG Classification	---	Proper classification to be determined at the time of shipment	---	-	-
IATA/ICAO Classification	---	Proper classification to be determined at the time of shipment	---	-	-

15. Regulatory information

U.S. Federal Regulations

United States Inventory
(TSCA 8b)

All components are listed or exempted.

TSCA 12(b) one-time export: Naphthalene

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Mississippi Canyon 252 Weathered Crude Oil (Louisiana Light Sweet Crude): Immediate (acute) health hazard, Delayed (chronic) health hazard

SARA 313

Form R - Reporting
requirements

This product does not contain any hazardous ingredients at or above regulated thresholds.

Supplier notification

This product does not contain any hazardous ingredients at or above regulated thresholds.

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				(US-COMP)	
				Language	ENGLISH.
				(ENGLISH)	

**CERCLA Sections
102a/103 Hazardous
Substances (40 CFR
Part 302.4):**

CERCLA: Hazardous substances.: Naphthalene: 100 lbs. (45.4 kg);

State regulations

**Massachusetts
Substances**

The following components are listed: PETROLEUM CRUDE

**New Jersey Hazardous
Substances**

The following components are listed: PETROLEUM DISTILLATES; CRUDE OIL (PETROLEUM)

**Pennsylvania RTK
Hazardous Substances**

The following components are listed: PETROLEUM

California Prop. 65

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

Inventories

Canada inventory	All components are listed or exempted.
Europe inventory	All components are listed or exempted.
Australia inventory (AICS)	All components are listed or exempted.
China inventory (IECSC)	All components are listed or exempted.
Japan inventory (ENCS)	Not determined.
Korea inventory (KECI)	All components are listed or exempted.
Philippines inventory (PICCS)	All components are listed or exempted.

16. Other information

Label requirements

WARNING !
CAUSES EYE AND SKIN IRRITATION.

HMIS® Rating :

Health * 2
Flammability 2
Physical Hazard 0
Personal protection X

**National Fire
Protection
Association (U.S.A.)**



History

Date of issue 05/18/2010.
Date of previous issue No previous validation.
Prepared by Product Stewardship

Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. Additionally this data and advice apply to weathered crude oil that is recovered from the environment for potential reuse or recycling. You should not use the product other than for these stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this material safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

Product name Mississippi Canyon 252 Weathered Crude Oil (Louisiana Light Sweet Crude)	Product code 0000003277	Page: 6/7
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		Language ENGLISH. (ENGLISH)

Product name	Mississippi Canyon 252 Weathered Crude Oil (Louisiana Light Sweet Crude)	Product code	0000003277	Page:	7/7		
Version	1	Date of issue	05/18/2010.	Format	US-COMP (US-COMP)	Language	ENGLISH. (ENGLISH)

Material Safety Data Sheet



1. Chemical product and company identification

Product name Petroleum Crude Oil - Sweet
MSDS # 0000002895
Historic MSDS #: None.
Code 0000002895
Synonyms Crude oil, Sweet. Crude oil, Rock Oil, Seneca Oil
Supplier BP America Production Company
501 WestLake Park Boulevard
Houston TX 77079
EMERGENCY HEALTH INFORMATION: 1 (800) 447-8735
Outside the US: +1 703-527-3887 (CHEMTREC)
EMERGENCY SPILL INFORMATION: 1 (800) 424-9300 CHEMTREC (USA)
OTHER PRODUCT INFORMATION 1 (866) 4 BP - MSDS
(866-427-6737 Toll Free - North America)
email: bpcares@bp.com

2. Composition/information on ingredients

Ingredient name	CAS #	%
Crude oil	8002-05-9	98 - 100
Contains:		
n-Hexane	110-54-3	0 - 6
Toluene	108-88-3	0 - 5
xylene	1330-20-7	0 - 5
Benzene	71-43-2	0.1 - 1.8
Naphthalene	91-20-3	0 - 1
Ethylbenzene	100-41-4	0 - 0.4
Hydrogen Sulfide	7783-06-4	0 - 0.001

3. Hazards identification

Physical state Liquid.
Color Brown to Black.
Emergency overview Danger!

Extremely flammable liquid and vapor.
Vapor may cause fire.
Keep away from heat, sparks and flame. Avoid all possible sources of ignition (spark or flame).
Avoid contact with eyes, skin and clothing.
Causes eye irritation.
Causes skin irritation.
Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness, and nausea, and may lead to unconsciousness or death.
Harmful or fatal if liquid is aspirated into lungs.
Can cause blood disorders
Risk of cancer depends on duration and level of exposure.
Danger! Contains Benzene. Cancer hazard.
Harmful if absorbed through the skin.

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Contains n-hexane which may cause peripheral nerve damage.

Target Organ(s): Respiratory System, Central Nervous System, Peripheral Nervous System, Cardiovascular System, Blood, Liver, Kidney

If ingested do not induce vomiting. Harmful or fatal if liquid is aspirated into lungs. Avoid breathing vapor or mist. Do not puncture or incinerate. Keep container closed when not in use. Use only with adequate ventilation. Wash contaminated skin with soap and water. Avoid exposure during pregnancy.

Routes of entry

Skin contact or absorption. Eye contact. Inhalation. Ingestion.

Potential health effects

Eyes

Causes eye irritation.

Skin

Causes skin irritation. Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis. Cancer hazard. Can cause cancer. Can cause blood disorders. Harmful if absorbed through the skin. See toxicological Information (section 11).

Inhalation

Harmful or fatal if inhaled. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness, and nausea, and may lead to unconsciousness or death. May cause respiratory tract irritation. Contains n-hexane which may cause peripheral nerve damage. Contains benzene. Cancer hazard. Can cause cancer. Can cause blood disorders. See toxicological Information (section 11).

Ingestion

Harmful or fatal if liquid is aspirated into lungs. Adverse effects could include chemical pneumonitis. Ingestion may cause gastrointestinal irritation and diarrhea. Exposure can cause nausea, headache and vomiting. Harmful; may cause lung damage if swallowed. Cancer hazard. Can cause cancer. See toxicological Information (section 11).

Medical conditions aggravated by over-exposure

None identified.

See toxicological Information (section 11).

4. First aid measures

Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin contact

Wash contaminated skin with soap and water. Do not use hot water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Destroy contaminated leather items such as belts and shoes and other items that cannot be decontaminated. Get medical attention immediately.

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion

If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person. Aspiration hazard if swallowed- can enter lungs and cause damage. Get medical attention immediately.

5. Fire-fighting measures

Flammability of the product

Flammable.

Auto-ignition temperature

240 °C (464 °F) (Estimated. Based on n-Hexane)

Flash point

-18 °C (0 °F)

Explosion limits

Lower: 1.1 %
Upper: 5.9 %
(Estimated. Based on Crude oil)

Products of combustion

These products are carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide) and nitrogen oxides (NO, NO₂ etc.)

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Unusual fire/explosion hazards	Extremely flammable. Vapor may cause flash fire. Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. Highly explosive in the presence of the following materials or conditions: heat, open flames, sparks and static discharge. Eliminate all ignition sources. Hot containers may explode.
Fire-fighting media and instructions	If involved in fire, shut off flow immediately if it can be done without risk. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. First move people out of line-of-sight of the scene and away from windows. Keep personnel removed and upwind of fire. Withdraw from fire and let it burn. In case of fire, use water fog, foam, dry chemicals, or carbon dioxide. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of combustion products and oxygen deficiencies. Cool tanks and containers exposed to fire with water. If firefighters cannot work upwind to the fire, respiratory protective equipment must be worn unless and until atmospheric monitoring indicates that such protection is not required. Improper use of water and extinguishing media containing water may cause frothing which can spread the fire over a larger area. Water fog or spray are of value for cooling tank shells and surfaces exposed to fire, but may not achieve extinguishment. Liquid will float and may reignite on surface of water. Use water spray to cool and disperse vapors and protect personnel. If this is impossible, withdraw from area and let fire burn.
Protective clothing (fire)	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Be sure to use a MSHA/NIOSH approved respirator or equivalent.

6. Accidental release measures

Personal precautions	Immediately contact emergency personnel. Eliminate all ignition sources. Stop leak if without risk. Keep unnecessary personnel away. Move upwind and away from spill. Use suitable protective equipment (See Section: "Exposure controls/personal protection"). Follow all fire fighting procedures (See Section: "Fire-fighting measures"). Do not touch or walk through spilled material. Liquid leaks generate large volumes of extremely flammable gas.
Environmental precautions and clean-up methods	If emergency personnel are unavailable, contain spilled material. Stop leak if without risk. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Avoid contact of spilled material with soil and prevent runoff entering surface waterways. Exclude sources of ignition and ventilate the area. See Section 13 for Waste Disposal Information.
Personal protection in case of a large spill	Chemical splash goggles. Chemical resistant protective suit. Chemicals resistant boots. Chemical resistant gloves (nitrile or viton). Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

7. Handling and storage

Handling	Aspiration hazard if swallowed- can enter lungs and cause damage. Do not ingest. If ingested do not induce vomiting. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Do not breathe vapor or mist. Use only with adequate ventilation. Keep away from heat, sparks and flame. Exercise caution when opening to allow pressure release. Use appropriate respiratory protection if there is the potential to exceed the exposure limit(s). To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Electrical equipment should not be used unless it is intrinsically safe (i.e. will not produce sparks).
Storage	Store in a segregated and approved area. Keep container tightly closed and sealed until ready for use. Empty containers may contain harmful, flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Do not smoke. Do not enter storage areas and confined spaces unless adequately ventilated. Use appropriate respiratory protection if there is the potential to exceed the exposure limit(s). Light hydrocarbon vapors can build up in the headspace of tanks. These can cause

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flammability/explosion hazards even at temperatures below the normal flash point (note: flash point must not be regarded as a reliable indicator of the potential flammability of vapor in tank headspaces). Tank headspaces should always be regarded as potentially flammable and care should be taken to avoid static electrical discharge and all ignition source during filling, ullaging and sampling from storage tanks. When the product is pumped (e.g. during filling, discharge or ullaging) and when sampling, there is a risk of static discharge. Ensure equipment used is properly earthed or bonded to the tank structure.

This material may also contain benzene vapor, a known human carcinogen. Vapors containing benzene may accumulate in the headspace of storage tanks and during storage or transport. Where there is potential for exposure to benzene vapor in excess of the short-term or 8-hr permissible exposure limits, a NIOSH-approved respirator should be worn.

8. Exposure controls/personal protection

Occupational exposure limits

Ingredient name

Occupational exposure limits

Crude oil

ACGIH TLV (United States, 2005).

STEL: 10 mg/m³ 15 minute(s). Form: OIL MIST, MINERAL (Recommended)

TWA: 5 mg/m³ 8 hour(s). Form: OIL MIST, MINERAL (Recommended)

TWA: 100 ppm 8 hour(s). Form: Stoddard Solvent (Recommended)

TWA: 525 mg/m³ 8 hour(s). Form: Stoddard Solvent (Recommended)

OSHA PEL (United States, 1971).

TWA: 5 mg/m³ 8 hour(s). Form: OIL MIST, MINERAL (Recommended)

TWA: 2900 mg/m³ 8 hour(s). Form: Stoddard Solvent (Recommended)

TWA: 500 mg/m³ 8 hour(s). Form: Stoddard Solvent (Recommended)

Contains:

n-Hexane

ACGIH TLV (United States, 1/2007). Skin

TWA: 50 ppm 8 hour(s).

OSHA PEL (United States, 11/2006).

TWA: 1800 mg/m³ 8 hour(s).

TWA: 500 ppm 8 hour(s).

Toluene

ACGIH TLV (United States, 1/2007).

TWA: 20 ppm 8 hour(s).

OSHA PEL Z2 (United States, 11/2006).

AMP: 500 ppm 10 minute(s).

CEIL: 300 ppm

TWA: 200 ppm 8 hour(s).

xylene

ACGIH TLV (United States, 1/2007).

STEL: 651 mg/m³ 15 minute(s).

STEL: 150 ppm 15 minute(s).

TWA: 434 mg/m³ 8 hour(s).

TWA: 100 ppm 8 hour(s).

OSHA PEL (United States, 11/2006).

TWA: 435 mg/m³ 8 hour(s).

TWA: 100 ppm 8 hour(s).

Benzene

ACGIH TLV (United States, 1/2007). Skin

STEL: 8 mg/m³ 15 minute(s).

STEL: 2.5 ppm 15 minute(s).

TWA: 1.6 mg/m³ 8 hour(s).

TWA: 0.5 ppm 8 hour(s).

OSHA PEL (United States, 11/2006).

STEL: 5 ppm 15 minute(s).

TWA: 1 ppm 8 hour(s).

OSHA PEL Z2 (United States, 11/2006).

AMP: 50 ppm 10 minute(s).

CEIL: 25 ppm

TWA: 10 ppm 8 hour(s).

Naphthalene

ACGIH TLV (United States, 1/2007).

STEL: 79 mg/m³ 15 minute(s).

STEL: 15 ppm 15 minute(s).

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Ethylbenzene	TWA: 52 mg/m ³ 8 hour(s).
	TWA: 10 ppm 8 hour(s).
	OSHA PEL (United States, 11/2006).
	TWA: 50 mg/m ³ 8 hour(s).
Hydrogen Sulfide	TWA: 10 ppm 8 hour(s).
	ACGIH TLV (United States, 1/2007).
	STEL: 125 ppm 15 minute(s).
	TWA: 100 ppm 8 hour(s).
	OSHA PEL (United States, 11/2006).
	TWA: 435 mg/m ³ 8 hour(s).
	TWA: 100 ppm 8 hour(s).
	ACGIH TLV (United States, 1/2007).
	STEL: 21 mg/m ³ 15 minute(s).
	STEL: 15 ppm 15 minute(s).
	TWA: 14 mg/m ³ 8 hour(s).
	TWA: 10 ppm 8 hour(s).
	OSHA PEL Z2 (United States, 11/2006).
	AMP: 50 ppm 10 minute(s).
	CEIL: 20 ppm

Some states may enforce more stringent exposure limits.

Control Measures Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Use explosion-proof ventilation equipment. Keep away from sources of ignition.

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Personal protection

Eyes Avoid contact with eyes. Use goggles, face shield, or other full-face protection if potential exists for direct exposure to aerosols or splashes (chemical splash goggles).

Skin and body Wear appropriate protective clothing to prevent skin contact. Remove contaminated clothing, including shoes, and thoroughly clean and dry before reuse. Thoroughly decontaminate clothing and discard contaminated leather goods and other items which cannot be decontaminated.

Respiratory Do not breathe vapor or mist. A respirator is not needed under normal and intended conditions of product use. If operating conditions cause high vapor concentrations or TLV is exceeded, use NIOSH certified supplied-air respirator.

Hands Avoid contact with skin. Wear chemical resistant gloves. Recommended: Nitrile gloves or Viton Gloves.

The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Consult your supervisor or S.O.P. for special handling directions

Consult local authorities for acceptable exposure limits.

9. Physical and chemical properties

Physical state	Liquid.
Odor	Petroleum Hydrocarbon, Rotten eggs. [Slight]
Color	Brown to Black.
Heat of combustion	Not available.
Boiling point / Range	-17.778 to 537.78°C (-0.0004 to 1000°F)
Melting point / Range	-60 to -20°C (-76 to -4°F)
Specific gravity	0.74 to 1.03 (Water = 1)

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Vapor pressure >0.359 kPa (>2.7 mm Hg) at 20°C (68 °F)
Vapor Density (Air = 1) >1
Solubility Insoluble in cold water.
Viscosity SUS: 31 to 9000 SUS at 20°C (68 °F)

10. Stability and reactivity

Stability and reactivity Stable under recommended storage and handling conditions (See Section: "Handling and storage"). Extremely flammable liquid and vapor. Vapor may cause flash fire.
Conditions to avoid Avoid all possible sources of ignition (spark or flame). Avoid excessive heat.
Incompatibility with various substances Reactive or incompatible with the following materials. oxidizing materials.
Hazardous decomposition products These products are carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide) and nitrogen oxides (NO, NO₂ etc.)
Hazardous polymerization Will not occur.

11. Toxicological information

Acute toxicity Aspiration of this product into the lungs can cause chemical pneumonia and can be fatal. Aspiration into the lungs can occur while vomiting after ingestion of this product. Do not siphon by mouth.

Chronic toxicity

Carcinogenic effects

CANCER HAZARD
CONTAINS MATERIAL WHICH CAN CAUSE CANCER
Risk of cancer depends on duration and level of exposure.
Classified A1 (Confirmed for human.) by ACGIH: [Benzene]
Classified 1 (Proven for human.) by IARC: [Benzene]
Classified 2B (Possible for human.) by IARC: [Naphthalene; Ethylbenzene]
Classified 1 (Known To Be Human Carcinogens.) by NTP: [Benzene]
Classified 2 (Reasonably Anticipated To Be Human Carcinogens.) by NTP: [Naphthalene]
Classified + (Proven) by OSHA: [Benzene]

Other information

Benzene: Acute toxicity of benzene results primarily from depression of the central nervous system (CNS). Inhalation of concentrations over 50 ppm can produce headache, lassitude, weariness, dizziness, drowsiness, or excitation. Exposure to very high levels can result in unconsciousness and death.

Benzene: Long-term overexposure to benzene has been associated with certain types of leukemia in humans. In addition, the International Agency for Research on Cancer (IARC), the National Toxicology Program, and OSHA consider benzene to be a human carcinogen. Chronic exposures to high levels of benzene have been reported to cause adverse blood effects including anemia. Benzene exposure can occur by inhalation and absorption through the skin. Inhalation and forced feeding studies of benzene in laboratory animals have produced a carcinogenic response in a variety of organs, including possibly leukemia, other adverse effects on the blood, chromosomal changes and some effects on the immune system. Exposure to benzene at levels up to 300 ppm did not produce birth defects in animal studies; however, exposure to higher dosage levels resulted in a reduction of body weight of the rat pups (fetotoxicity). Changes in the testes have been observed in mice exposed to benzene at 300 ppm, but reproductive performance was not altered in rats exposed to benzene at the same level. Aspiration of this material into the lungs can cause chemical pneumonia and can be fatal. Aspiration into the lungs can occur while vomiting after ingestion of this material.

Benzene vapor may accumulate in the headspace of storage tanks and bulk transport compartments containing this material.

Toluene: Aspiration of this material into the lungs can cause chemical pneumonia and can be fatal. Aspiration into the lungs can occur while vomiting after ingestion of this material. Deliberate inhalation of high concentrations of toluene has been linked to damage of the brain, liver and kidney. Inhalation of very high concentrations of toluene, such as in cases of solvent abuse, has resulted in sudden death which may be a result of cardiac arrhythmia or central nervous system depression. Mental and/or growth retardation has been reported in children of women who

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deliberately inhale toluene during pregnancy (usually at thousands of ppm). Fetal developmental toxicity was observed when pregnant rats were exposed to toluene at levels of 1500 ppm. Maternal toxicity was also observed at this concentration. Prolonged, high level exposure to toluene in laboratory animals has resulted in hearing loss. Exposure studies in rats have resulted in adverse effects on the kidney, liver and central nervous system. Studies in occupationally exposed individuals indicate that toluene exposure has been associated with impaired color vision and decreased performance in some neurobehavioral tests. There are occupational studies which report an association between inhalation exposure to toluene and adverse effects on reproduction including spontaneous abortion. The methodology of these studies and the reliability of the results have been questioned. In a two-generation study in rats, inhalation of toluene at levels up to 2000 ppm did not produce adverse effects on fertility or reproductive performance.

Studies in occupationally exposed individuals indicate that toluene exposure has been associated with impaired color vision and decreased performance in some neurobehavioral tests.

Xylenes: Xylene has been reported to cause central nervous system effects at concentrations above the recommended exposure limit. Xylene vapor becomes irritating at relatively high levels. In one study, eye irritation was reported at exposures of 460 ppm and in one person at 230 ppm after 15 minutes. In another study, no one reported eyes, nose and throat irritation at mixed xylene exposures up to 230 ppm for 30 minutes. Dermal LD50 is expected to be greater than 10g/kg in rabbits, based on test results from similar materials.

Mixed xylenes caused slight hearing loss in rats exposed to 800 ppm in the air for 14 hours/day for six weeks. There is no information available for lower concentrations; however, similar chemicals that have caused these hearing effects at similar concentrations have not caused effects at lower concentrations.

Pregnant animals exposed to xylene or its isomers have been reported to cause development toxicity in rodents when exposed by inhalation. The developmental effects observed consisted of delayed development and minor skeletal variations, but no malformations. Because of the high exposure levels used in these studies, we do not believe that these results imply an increased risk of reproductive toxicity to workers exposed to xylene levels at or below the exposure limits.

Xylene and its isomers are not genotoxic.

Technical grade xylene has been tested in a National Toxicology Program carcinogenicity study in rats and mice dosed orally for two years. There was no evidence of carcinogenicity.

Ethylbenzene: The National Toxicology Program (NTP) conducted a 13-week inhalation study with male and female rats and mice at exposure concentrations ranging from 100 to 1000 ppm ethylbenzene. No rats or mice died during the study. Kidney, liver, and lung weights were increased in the exposed rats, while weight increases were observed only in the livers of exposed mice. Treatment-related histopathologic changes were not observed in any tissues of rats and mice.

NTP also exposed male and female rats and mice by inhalation to 0, 75, 250, or 750 ppm ethylbenzene for 2 years. There was a statistically significant increase in the number of kidney tumors in male and female rats at 750 ppm. There were also increased incidences of lung tumors in male mice and liver tumors in female mice that were statistically significant at 750 ppm. Except for the male rat kidney tumors, the incidence of the tumors were within the range observed for non-exposed animals from other studies conducted by NTP. The significance of these findings to humans is unknown. Ethylbenzene produced mixed results in in vitro genotoxicity studies, which were not confirmed when tested in vivo. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene and found it to be possibly carcinogenic to humans (Group 2B).

Ethylbenzene is not genotoxic.

This product contains n-hexane. Overexposure to n-hexane may cause progressive and potentially irreversible damage to the peripheral nervous system, particularly in the arms and legs. Animal studies have also shown that n-hexane overexposure may cause testicular injury. However, animal studies conducted with commercial hexane, containing 53% n-hexane, showed neither peripheral nervous system damage nor testicular injury at inhalation exposures up to 9000 ppm.

Naphthalene has been reported to cause developmental toxicity in mice after oral exposure to relatively high dose levels, but developmental toxicity was not observed in NTP (National Toxicology Program) sponsored studies in rats and rabbits. Ingestion or inhalation of naphthalene can result in hemolysis and other blood abnormalities, and individuals (and infants) deficient in

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glucose-6-phosphate dehydrogenase may be especially susceptible to these effects. Inhalation of naphthalene may cause headache and nausea. Airborne exposure can result in eye irritation. Naphthalene exposure has been associated with cataracts in animals and humans.

12. Ecological information

Ecotoxicity

No testing has been performed by the manufacturer.

13. Disposal considerations





Waste information

Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of in accordance with local, state and federal regulations.

Consult your local or regional authorities.

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	UN1267	PETROLEUM CRUDE OIL	3	I		Reportable quantity 10 lbs. (4.536 kg)
TDG Classification	UN1267	PETROLEUM CRUDE OIL	3	I		Not determined.
IMDG Classification	UN1267	PETROLEUM CRUDE OIL	3	I		Emergency schedules (EmS) 3-07
IATA/ICAO Classification	UN1267	PETROLEUM CRUDE OIL	3	I		Not determined.

15. Regulatory information

U.S. Federal regulations

United States inventory (TSCA 8b): All components are listed or exempted.

TSCA 12(b) one-time export notification: Naphthalene

TSCA 12(b) annual export notification: n-Hexane

This product is not regulated under Section 302 of SARA and 40 CFR Part 355.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Petroleum Crude Oil: Fire hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

SARA 313

Product name

CAS number

Concentration

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Form R - Reporting requirements	n-Hexane	110-54-3	0 - 6
	Toluene	108-88-3	0 - 5
	xylene	1330-20-7	0 - 5
	Benzene	71-43-2	0.1 - 1.8
	Naphthalene	91-20-3	0 - 1
	Ethylbenzene	100-41-4	0 - 0.4
Supplier notification	n-Hexane	110-54-3	0 - 6
	Toluene	108-88-3	0 - 5
	xylene	1330-20-7	0 - 5
	Benzene	71-43-2	0.1 - 1.8
	Naphthalene	91-20-3	0 - 1
	Ethylbenzene	100-41-4	0 - 0.4
This product is specifically excluded from being a "Hazardous Substance" per CERCLA, Section 101(14)			

State regulations

Massachusetts Substances	Massachusetts RTK: The following components are listed: PETROLEUM CRUDE; HEXANE; TOLUENE; XYLENE; BENZENE;NAPHTHALENE
New Jersey Hazardous Substances	New Jersey Hazardous Substances: The following components are listed: PETROLEUM DISTILLATES; n-HEXANE; TOLUENE; XYLENES; BENZENE; NAPHTHALENE;ETHYL BENZENE
Pennsylvania RTK Hazardous Substances	Pennsylvania RTK: The following components are listed: PETROLEUM; HEXANE; BENZENE, METHYL-; BENZENE, DIMETHYL-; BENZENE; NAPHTHALENE;BENZENE, ETHYL-

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

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Toluene

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. Benzene

Inventories

Canada inventory: All components are listed or exempted.

Europe inventory: All components are listed or exempted.

Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Japan inventory (ENCS): Not determined.

Korea inventory (KECI): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

16. Other information

Label requirements

Danger!

Extremely flammable liquid and vapor.

Vapor may cause fire.

Keep away from heat, sparks and flame. Avoid all possible sources of ignition (spark or flame).

Avoid contact with eyes, skin and clothing.

Causes eye irritation.

Causes skin irritation.

Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness, and nausea, and may lead to unconsciousness or death.

Harmful or fatal if liquid is aspirated into lungs.

Can cause blood disorders

Risk of cancer depends on duration and level of exposure.

Danger! Contains Benzene. Cancer hazard.

Harmful if absorbed through the skin.

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Contains n-hexane which may cause peripheral nerve damage.

Target Organ(s): Respiratory System, Central Nervous System, Peripheral Nervous System, Cardiovascular System, Blood, Liver, Kidney

HMIS® Rating :

Health * 2
Flammability 3
Physical 0
Hazard
Personal X
protection

**National Fire
Protection
Association
(U.S.A.)**



History

Date of issue 08/31/2007.
Date of previous issue No Previous Validation.
Prepared by Product Stewardship

Notice to reader

NOTICE : This Material Safety Data Sheet is based upon data considered to be accurate at the time of its preparation. Despite our efforts, it may not be up to date or applicable to the circumstances of any particular case. We are not responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices or from hazards inherent in the nature of the product.

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	EWG 8.3.5	(ENGLISH)

**SAFETY DATA SHEET****PRODUCT****COREXIT(R) EC9527A****EMERGENCY TELEPHONE NUMBER(S)****(800) 424-9300 (24 Hours) CHEMTREC****1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME :** COREXIT(R) EC9527A**APPLICATION :** OIL SPILL DISPERSANT**COMPANY IDENTIFICATION :** Nalco Company
1601 W. Diehl Road
Naperville, Illinois
60563-1198**EMERGENCY TELEPHONE NUMBER(S) :** (800) 424-9300 (24 Hours) CHEMTREC**NFPA 704M/HMIS RATING****HEALTH :** 2 / 2 **FLAMMABILITY :** 1 / 1 **INSTABILITY :** 0 / 0 **OTHER :**

0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

2. COMPOSITION/INFORMATION ON INGREDIENTS

Our hazard evaluation has identified the following chemical substance(s) as hazardous. Consult Section 15 for the nature of the hazard(s).

Hazardous Substance(s)	CAS NO	% (w/w)
2-Butoxyethanol	111-76-2	30.0 - 60.0
Organic sulfonic acid salt	Proprietary	10.0 - 30.0
Propylene Glycol	57-55-6	1.0 - 5.0

3. HAZARDS IDENTIFICATION**"EMERGENCY OVERVIEW"****WARNING**

Eye and skin irritant. Repeated or excessive exposure to butoxyethanol may cause injury to red blood cells (hemolysis), kidney or the liver. Harmful by inhalation, in contact with skin and if swallowed. Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Wear suitable protective clothing. Keep container tightly closed. Flush affected area with water. Keep away from heat. Keep away from sources of ignition - No smoking.

May evolve oxides of carbon (COx) under fire conditions.

PRIMARY ROUTES OF EXPOSURE :
Eye, Skin**HUMAN HEALTH HAZARDS - ACUTE :****EYE CONTACT :**
Can cause moderate irritation.

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SKIN CONTACT :

Can cause moderate irritation. Harmful if absorbed through skin.

INGESTION :

May be harmful if swallowed. May cause liver and kidney effects and/or damage. There may be irritation to the gastro-intestinal tract.

INHALATION :

Harmful by inhalation. Repeated or prolonged exposure may irritate the respiratory tract.

SYMPTOMS OF EXPOSURE :

Acute :

Excessive exposure may cause central nervous system effects, nausea, vomiting, anesthetic or narcotic effects.

Chronic :

Repeated or excessive exposure to butoxyethanol may cause injury to red blood cells (hemolysis), kidney or the liver.

AGGRAVATION OF EXISTING CONDITIONS :

Skin contact may aggravate an existing dermatitis condition.

HUMAN HEALTH HAZARDS - CHRONIC :

Contains ethylene glycol monobutyl ether (butoxyethanol). Prolonged and/or repeated exposure through inhalation or extensive skin contact with EGBE may result in damage to the blood and kidneys.

4. FIRST AID MEASURES

EYE CONTACT :

Flush affected area with water. Get medical attention.

SKIN CONTACT :

Flush affected area with water. Get medical attention.

INGESTION :

Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink. Get medical attention.

INHALATION :

Remove to fresh air, treat symptomatically. If symptoms develop, seek medical advice.

NOTE TO PHYSICIAN :

Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

5. FIRE FIGHTING MEASURES

FLASH POINT : 163 °F / 72.7 °C (TCC)

This product does not sustain combustion per the method outlined in 49 CFR Appendix H.

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**SAFETY DATA SHEET****PRODUCT****COREXIT(R) EC9527A****EMERGENCY TELEPHONE NUMBER(S)****(800) 424-9300 (24 Hours) CHEMTREC****EXTINGUISHING MEDIA :**

This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Use extinguishing media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARD :

May evolve oxides of carbon (COx) under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING :

In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS :**

Restrict access to area as appropriate until clean-up operations are complete. Stop or reduce any leaks if it is safe to do so. Do not touch spilled material. Ventilate spill area if possible. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection).

METHODS FOR CLEANING UP :

SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. **LARGE SPILLS:** Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

ENVIRONMENTAL PRECAUTIONS :

Do not contaminate surface water.

7. HANDLING AND STORAGE**HANDLING :**

Avoid eye and skin contact. Do not take internally. Ensure all containers are labeled. Keep the containers closed when not in use.

STORAGE CONDITIONS :

Store the containers tightly closed.

SUITABLE CONSTRUCTION MATERIAL :

Stainless Steel 316L, Hastelloy C-276, MDPE (medium density polyethylene), Nitrile, Plexiglass, Kalrez, TFE, Alfax, Teflon, HDPE (high density polyethylene), Neoprene, Aluminum, Polypropylene, Polyethylene, Carbon Steel C1018, Stainless Steel 304, Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use., FEP (encapsulated), Perfluoroelastomer, PVC

UNSUITABLE CONSTRUCTION MATERIAL :

Copper, Mild steel, Brass, Nylon, Buna-N, Natural rubber, Polyurethane, Hypalon, Viton, Ethylene propylene, EPDM

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS :

Exposure guidelines have not been established for this product. Available exposure limits for the substance(s) are shown below.

ACGIH/TLV :

Substance(s)

2-Butoxyethanol

TWA: 20 ppm , 97 mg/m³

Propylene Glycol

OSHA/PEL :

Substance(s)

2-Butoxyethanol

TWA: 50 ppm , 240 mg/m³ (Skin)

Propylene Glycol

AIHA/WEEL :

Substance(s)

For propylene glycol, an 8 hour TWA of 10 mg/m³ (aerosol) and 50 ppm (total).

ENGINEERING MEASURES :

General ventilation is recommended.

RESPIRATORY PROTECTION :

Where concentrations in air may exceed the limits given in this section, the use of a half face filter mask or air supplied breathing apparatus is recommended. A suitable filter material depends on the amount and type of chemicals being handled. Consider the use of filter type: Multi-contaminant cartridge, with a Particulate pre-filter. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

HAND PROTECTION :

Neoprene gloves, Nitrile gloves, Butyl gloves, PVC gloves

SKIN PROTECTION :

Wear standard protective clothing.

EYE PROTECTION :

Wear chemical splash goggles.

HYGIENE RECOMMENDATIONS :

Keep an eye wash fountain available. Keep a safety shower available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

HUMAN EXPOSURE CHARACTERIZATION :

Based on our recommended product application and personal protective equipment, the potential human exposure is: Low

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**SAFETY DATA SHEET****PRODUCT****COREXIT(R) EC9527A****EMERGENCY TELEPHONE NUMBER(S)****(800) 424-9300 (24 Hours) CHEMTREC****9. PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE	Liquid
APPEARANCE	Clear Amber
ODOR	Mild
SPECIFIC GRAVITY	0.98 - 1.02
DENSITY	8.2 - 8.5 lb/gal
SOLUBILITY IN WATER	Complete
pH (100 %)	6.1
VISCOSITY	160 cst @ 32 °F / 0 °C
POUR POINT	ASTM D-97 -66.9 °F / -55 °C
POUR POINT	< -40 °F / < -40 °C
BOILING POINT	340 °F / 171 °C
VAPOR PRESSURE	< 5 mm Hg @ 100 °F / 38 °C Same as water
EVAPORATION RATE	0.1

Note: These physical properties are typical values for this product and are subject to change.

10. STABILITY AND REACTIVITY**STABILITY :**

Stable under normal conditions.

HAZARDOUS POLYMERIZATION :

Hazardous polymerization will not occur.

CONDITIONS TO AVOID :

Extremes of temperature

MATERIALS TO AVOID :

Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors.

HAZARDOUS DECOMPOSITION PRODUCTS :

Under fire conditions: Oxides of carbon

11. TOXICOLOGICAL INFORMATION

No toxicity studies have been conducted on this product.

SENSITIZATION :

This product is not expected to be a sensitizer.

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**SAFETY DATA SHEET****PRODUCT****COREXIT(R) EC9527A****EMERGENCY TELEPHONE NUMBER(S)****(800) 424-9300 (24 Hours) CHEMTREC****CARCINOGENICITY :**

None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

HUMAN HAZARD CHARACTERIZATION :

Based on our hazard characterization, the potential human hazard is: High

12. ECOLOGICAL INFORMATION**ECOTOXICOLOGICAL EFFECTS :**

No toxicity studies have been conducted on this product.

ACUTE FISH RESULTS :

Species	Exposure	LC50	Test Descriptor
Turbot	96 hrs	50 mg/l	

MOBILITY :

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.

If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	Water	Soil/Sediment
<5%	10 - 30%	70 - 90%

The portion in water is expected to be soluble or dispersible.

BIOACCUMULATION POTENTIAL

Component substances have a low potential to bioconcentrate.

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION

Based on our hazard characterization, the potential environmental hazard is: Moderate

Based on our recommended product application and the product's characteristics, the potential environmental exposure is: Low

If released into the environment, see CERCLA/SUPERFUND in Section 15.

13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

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CONFIDENTIAL

BP-HZN-2179MDL03320389

BPD297-022856

**SAFETY DATA SHEET****PRODUCT****COREXIT(R) EC9527A****EMERGENCY TELEPHONE NUMBER(S)****(800) 424-9300 (24 Hours) CHEMTREC**

As a non-hazardous waste, it is not subject to federal regulation. Consult state or local regulation for any additional handling, treatment or disposal requirements. For disposal, contact a properly licensed waste treatment, storage, disposal or recycling facility.

14. TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are as follows.

LAND TRANSPORT :

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING TRANSPORTATION**AIR TRANSPORT (ICAO/IATA) :**

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING TRANSPORTATION**MARINE TRANSPORT (IMDG/IMO) :**

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING TRANSPORTATION**15. REGULATORY INFORMATION**

This section contains additional information that may have relevance to regulatory compliance. The information in this section is for reference only. It is not exhaustive, and should not be relied upon to take the place of an individualized compliance or hazard assessment. Nalco accepts no liability for the use of this information.

NATIONAL REGULATIONS, USA :**OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200 :**

Based on our hazard evaluation, none of the substances in this product are hazardous.

CERCLA/SUPERFUND, 40 CFR 117, 302 :

Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312, AND 313 :**SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355) :**

This product does not contain substances listed in Appendix A and B as an Extremely Hazardous Substance.

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**SAFETY DATA SHEET****PRODUCT****COREXIT(R) EC9527A****EMERGENCY TELEPHONE NUMBER(S)****(800) 424-9300 (24 Hours) CHEMTREC****SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370) :**

Our hazard evaluation has found this product to be hazardous. The product should be reported under the following indicated EPA hazard categories:

X	Immediate (Acute) Health Hazard
X	Delayed (Chronic) Health Hazard
X	Fire Hazard
	Sudden Release of Pressure Hazard
	Reactive Hazard

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372) :

This product contains the following substance(s), (with CAS # and % range) which appear(s) on the List of Toxic Chemicals

<u>Hazardous Substance(s)</u>	<u>CAS NO</u>	<u>% (w/w)</u>
Glycol Ethers		30 - 60

TOXIC SUBSTANCES CONTROL ACT (TSCA) :

The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 / formerly Sec. 307, 40 CFR 116.4 / formerly Sec. 311 :

None of the substances are specifically listed in the regulation.

CLEAN AIR ACT, Sec. 112 (40 CFR 61, Hazardous Air Pollutants), Sec. 602 (40 CFR 82, Class I and II Ozone Depleting Substances) :

None of the substances are specifically listed in the regulation.

CALIFORNIA PROPOSITION 65 :

This product does not contain substances which require warning under California Proposition 65.

MICHIGAN CRITICAL MATERIALS :

None of the substances are specifically listed in the regulation.

STATE RIGHT TO KNOW LAWS :

The following substances are disclosed for compliance with State Right to Know Laws:

2-Butoxyethanol	111-76-2
Propylene Glycol	57-55-6

NATIONAL REGULATIONS, CANADA :

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BP-HZN-2179MDL03320391

BPD297-022858

**SAFETY DATA SHEET****PRODUCT****COREXIT(R) EC9527A****EMERGENCY TELEPHONE NUMBER(S)****(800) 424-9300 (24 Hours) CHEMTREC****WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) :**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS CLASSIFICATION :

D2B - Materials Causing Other Toxic Effects - Toxic Material

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) :

The substances in this preparation are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

AUSTRALIA

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

CHINA

All substances in this product comply with the Chemical Control Law and are listed on the Inventory of Existing Chemical Substances China (IECSC).

EUROPE

The substance(s) in this preparation are included in or exempted from the EINECS or ELINCS inventories

JAPAN

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Ministry of International Trade & Industry List (MITI).

KOREA

All substances in this product comply with the Toxic Chemical Control Law (TCCL) and are listed on the Existing Chemicals List (ECL)

PHILIPPINES

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

16. OTHER INFORMATION

Due to our commitment to Product Stewardship, we have evaluated the human and environmental hazards and exposures of this product. Based on our recommended use of this product, we have characterized the product's general risk. This information should provide assistance for your own risk management practices. We have evaluated our product's risk as follows:

* The human risk is: Low

* The environmental risk is: Low

Any use inconsistent with our recommendations may affect the risk characterization. Our sales representative will assist you to determine if your product application is consistent with our recommendations. Together we can implement an appropriate risk management process.

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COREXIT(R) EC9527A

EMERGENCY TELEPHONE NUMBER(S)

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This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

REFERENCES

Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists, OH., (Ariel Insight™™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Hazardous Substances Data Bank, National Library of Medicine, Bethesda, Maryland (TOMES CPS™™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.

Integrated Risk Information System, U.S. Environmental Protection Agency, Washington, D.C. (TOMES CPS™™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.

Title 29 Code of Federal Regulations, Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA), (Ariel Insight™™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, OH, (TOMES CPS™™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

Ariel Insight™™ (An integrated guide to industrial chemicals covered under major regulatory and advisory programs), North American Module, Western European Module, Chemical Inventories Module and the Generics Module (Ariel Insight™™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

The Teratogen Information System, University of Washington, Seattle, WA (TOMES CPS™™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

Prepared By : Product Safety Department
Date issued : 10/15/2008
Version Number : 1.7

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**SAFETY DATA SHEET****PRODUCT****COREXIT (R) EC9500A****EMERGENCY TELEPHONE NUMBER(S)****(800) 424-9300 (24 Hours) CHEMTREC****1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME :** COREXIT (R) EC9500A**APPLICATION :** OIL SPILL DISPERSANT**COMPANY IDENTIFICATION :** Nalco Company
1601 W. Diehl Road
Naperville, Illinois
60563-1198**EMERGENCY TELEPHONE NUMBER(S) :** (800) 424-9300 (24 Hours) CHEMTREC**NFPA 704M/HMIS RATING****HEALTH :** 1 / 1 **FLAMMABILITY :** 1 / 1 **INSTABILITY :** 0 / 0 **OTHER :**

0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

2. COMPOSITION/INFORMATION ON INGREDIENTS

Our hazard evaluation has identified the following chemical substance(s) as hazardous. Consult Section 15 for the nature of the hazard(s).

Hazardous Substance(s)	CAS NO	% (w/w)
Distillates, petroleum, hydrotreated light	64742-47-8	10.0 - 30.0
Propylene Glycol	57-55-6	1.0 - 5.0
Organic sulfonic acid salt	Proprietary	10.0 - 30.0

3. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW******CAUTION**

May cause irritation with prolonged contact.

Keep away from heat. Keep away from sources of ignition - No smoking. Keep container tightly closed. Do not get in eyes, on skin, on clothing. Do not take internally. Avoid breathing vapor. Use with adequate ventilation. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of soap and water.

Wear suitable protective clothing.

Low Fire Hazard; liquids may burn upon heating to temperatures at or above the flash point. May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of sulfur (SOx) under fire conditions.

PRIMARY ROUTES OF EXPOSURE :

Eye, Skin

HUMAN HEALTH HAZARDS - ACUTE :**EYE CONTACT :**

Can cause mild irritation.

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SKIN CONTACT :

May cause irritation with prolonged contact.

INGESTION :

Not a likely route of exposure. May cause nausea and vomiting. Can cause chemical pneumonia if aspirated into lungs following ingestion.

INHALATION :

Repeated or prolonged exposure may irritate the respiratory tract.

SYMPTOMS OF EXPOSURE :

Acute :

A review of available data does not identify any symptoms from exposure not previously mentioned.

Chronic :

Frequent or prolonged contact with product may defat and dry the skin, leading to discomfort and dermatitis.

AGGRAVATION OF EXISTING CONDITIONS :

Skin contact may aggravate an existing dermatitis condition.

4. FIRST AID MEASURES

EYE CONTACT :

Flush affected area with water. Get medical attention.

SKIN CONTACT :

Flush affected area with water. If symptoms develop, seek medical advice.

INGESTION :

Do not induce vomiting; contains petroleum distillates and/or aromatic solvents. If conscious, washout mouth and give water to drink. Get medical attention.

INHALATION :

Remove to fresh air, treat symptomatically. Get medical attention.

NOTE TO PHYSICIAN :

Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

5. FIRE FIGHTING MEASURES

FLASH POINT : 181.4 °F / 83 °C (PMCC)

This product does not sustain combustion per the method outlined in 49 CFR Appendix H.

LOWER EXPLOSION LIMIT : Not flammable

UPPER EXPLOSION LIMIT : Not flammable

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EXTINGUISHING MEDIA :

Alcohol foam, Carbon dioxide, Foam, Dry powder, Other extinguishing agent suitable for Class B fires, For large fires, use water spray or fog, thoroughly drenching the burning material. Water mist may be used to cool closed containers.

UNSUITABLE EXTINGUISHING MEDIA :

Do not use water unless flooding amounts are available.

FIRE AND EXPLOSION HAZARD :

Low Fire Hazard; liquids may burn upon heating to temperatures at or above the flash point. May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of sulfur (SOx) under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING :

In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS :

Restrict access to area as appropriate until clean-up operations are complete. Stop or reduce any leaks if it is safe to do so. Ventilate spill area if possible. Do not touch spilled material. Remove sources of ignition. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Notify appropriate government, occupational health and safety and environmental authorities.

METHODS FOR CLEANING UP :

SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. **LARGE SPILLS:** Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Clean contaminated surfaces with water or aqueous cleaning agents. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

ENVIRONMENTAL PRECAUTIONS :

Do not contaminate surface water.

7. HANDLING AND STORAGE

HANDLING :

Use with adequate ventilation. Keep the containers closed when not in use. Do not take internally. Do not get in eyes, on skin, on clothing. Have emergency equipment (for fires, spills, leaks, etc.) readily available.

STORAGE CONDITIONS :

Store away from heat and sources of ignition. Store separately from oxidizers. Store the containers tightly closed.

SUITABLE CONSTRUCTION MATERIAL :

Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use., Stainless Steel 304, Stainless Steel 316L, Aluminum, Hastelloy C-276, MDPE (medium density polyethylene), HDPE (high density polyethylene), PVC, Plexiglass, Teflon, Kalrez, Perfluoroelastomer, PTFE, TFE, FEP (encapsulated)

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**SAFETY DATA SHEET****PRODUCT****COREXIT (R) EC9500A****EMERGENCY TELEPHONE NUMBER(S)****(800) 424-9300 (24 Hours) CHEMTREC****UNSUITABLE CONSTRUCTION MATERIAL :**

Mild steel, Carbon steel, Buna-N, Brass, Copper, Natural rubber, Polyethylene, Polypropylene, Ethylene propylene, EPDM, Neoprene, Nitrile, Polyurethane, Viton, Alfax, Hypalon

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**OCCUPATIONAL EXPOSURE LIMITS :**

Exposure guidelines have not been established for this product. Available exposure limits for the substance(s) are shown below.

ACGIH/TLV :**Substance(s)**

Oil Mist (Mineral)

TWA: 5 mg/m³STEL: 10 mg/m³**OSHA/PEL :****Substance(s)**

Oil Mist (Mineral)

TWA: 5 mg/m³**AIHA/WEEL :****Substance(s)**

Propylene Glycol

TWA: 10 mg/m³**ENGINEERING MEASURES :**

General ventilation is recommended.

RESPIRATORY PROTECTION :

Where concentrations in air may exceed the limits given in this section, the use of a half face filter mask or air supplied breathing apparatus is recommended. A suitable filter material depends on the amount and type of chemicals being handled. Consider the use of filter type: Multi-contaminant cartridge, with a Particulate pre-filter. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

HAND PROTECTION :

Nitrile gloves, PVC gloves

SKIN PROTECTION :

Wear standard protective clothing.

EYE PROTECTION :

Wear chemical splash goggles.

HYGIENE RECOMMENDATIONS :

Keep an eye wash fountain available. Keep a safety shower available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

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BP-HZN-2179MDL03320397

BPD297-022864

**SAFETY DATA SHEET****PRODUCT****COREXIT (R) EC9500A****EMERGENCY TELEPHONE NUMBER(S)****(800) 424-9300 (24 Hours) CHEMTREC****HUMAN EXPOSURE CHARACTERIZATION :**

Based on our recommended product application and personal protective equipment, the potential human exposure is: Low

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
APPEARANCE	Clear Hazy Amber
ODOR	Hydrocarbon
SPECIFIC GRAVITY	0.95 @ 60 °F / 15.6 °C
DENSITY	7.91 lb/gal
SOLUBILITY IN WATER	Miscible
pH (100 %)	6.2
VISCOSITY	177 cst @ 32 °F / 0 °C 70 cst @ 60 °F / 15.6 °C
POUR POINT	< -71 °F / < -57 °C
BOILING POINT	296 °F / 147 °C
VAPOR PRESSURE	15.5 mm Hg @ 100 °F / 37.8 °C

Note: These physical properties are typical values for this product and are subject to change.

10. STABILITY AND REACTIVITY**STABILITY :**

Stable under normal conditions.

HAZARDOUS POLYMERIZATION :

Hazardous polymerization will not occur.

CONDITIONS TO AVOID :

Heat and sources of ignition including static discharges.

MATERIALS TO AVOID :

Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors.

HAZARDOUS DECOMPOSITION PRODUCTS :

Under fire conditions: Oxides of carbon, Oxides of sulfur

11. TOXICOLOGICAL INFORMATION

No toxicity studies have been conducted on this product.

SENSITIZATION :

This product is not expected to be a sensitizer.

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**SAFETY DATA SHEET****PRODUCT****COREXIT (R) EC9500A****EMERGENCY TELEPHONE NUMBER(S)****(800) 424-9300 (24 Hours) CHEMTREC****CARCINOGENICITY :**

None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

HUMAN HAZARD CHARACTERIZATION :

Based on our hazard characterization, the potential human hazard is: Moderate

12. ECOLOGICAL INFORMATION**ECOTOXICOLOGICAL EFFECTS :**

The following results are for the product.

ACUTE INVERTEBRATE RESULTS :

Species	Exposure	LC50	EC50	Test Descriptor
Acartia tonsa	48 hrs	34 mg/l		Product
Artemia	48 hrs	20.7 mg/l		Product

MOBILITY :

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.

If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	Water	Soil/Sediment
<5%	10 - 30%	50 - 70%

The portion in water is expected to float on the surface.

BIOACCUMULATION POTENTIAL

Component substances have a potential to bioaccumulate.

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION

Based on our hazard characterization, the potential environmental hazard is: Low

Based on our recommended product application and the product's characteristics, the potential environmental exposure is: Low

If released into the environment, see CERCLA/SUPERFUND in Section 15.

13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it could meet the criteria of a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Before disposal, it should be determined if the waste meets the criteria of a hazardous waste.

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**SAFETY DATA SHEET****PRODUCT****COREXIT (R) EC9500A****EMERGENCY TELEPHONE NUMBER(S)****(800) 424-9300 (24 Hours) CHEMTREC**

Hazardous Waste: D018

Hazardous wastes must be transported by a licensed hazardous waste transporter and disposed of or treated in a properly licensed hazardous waste treatment, storage, disposal or recycling facility. Consult local, state, and federal regulations for specific requirements.

14. TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are as follows.

LAND TRANSPORT :

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING
TRANSPORTATION**AIR TRANSPORT (ICAO/IATA) :**

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING
TRANSPORTATION**MARINE TRANSPORT (IMDG/IMO) :**

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING
TRANSPORTATION**15. REGULATORY INFORMATION**

This section contains additional information that may have relevance to regulatory compliance. The information in this section is for reference only. It is not exhaustive, and should not be relied upon to take the place of an individualized compliance or hazard assessment. Nalco accepts no liability for the use of this information.

NATIONAL REGULATIONS, USA :**OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200 :**

Based on our hazard evaluation, the following substance(s) in this product is/are hazardous and the reason(s) is/are shown below.

Distillates, petroleum, hydrotreated light : Irritant

Propylene Glycol : Exposure Limit

Organic sulfonic acid salt : Irritant

CERCLA/SUPERFUND, 40 CFR 117, 302 :

Notification of spills of this product is not required.

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**SAFETY DATA SHEET****PRODUCT****COREXIT (R) EC9500A****EMERGENCY TELEPHONE NUMBER(S)****(800) 424-9300 (24 Hours) CHEMTREC**

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312, AND 313 :

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355) :

This product does not contain substances listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370) :

Our hazard evaluation has found this product to be hazardous. The product should be reported under the following indicated EPA hazard categories:

- | | |
|---|-----------------------------------|
| X | Immediate (Acute) Health Hazard |
| - | Delayed (Chronic) Health Hazard |
| - | Fire Hazard |
| - | Sudden Release of Pressure Hazard |
| - | Reactive Hazard |

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372) :

This product does not contain substances on the List of Toxic Chemicals.

TOXIC SUBSTANCES CONTROL ACT (TSCA) :

The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 / formerly Sec. 307, 40 CFR 116.4 / formerly Sec. 311 :

None of the substances are specifically listed in the regulation.

CLEAN AIR ACT, Sec. 112 (40 CFR 61, Hazardous Air Pollutants), Sec. 602 (40 CFR 82, Class I and II Ozone Depleting Substances) :

None of the substances are specifically listed in the regulation.

CALIFORNIA PROPOSITION 65 :

This product does not contain substances which require warning under California Proposition 65.

MICHIGAN CRITICAL MATERIALS :

None of the substances are specifically listed in the regulation.

STATE RIGHT TO KNOW LAWS :

The following substances are disclosed for compliance with State Right to Know Laws:

Propylene Glycol

57-55-6

NATIONAL REGULATIONS, CANADA :

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BPD297-022868

**SAFETY DATA SHEET****PRODUCT****COREXIT (R) EC9500A****EMERGENCY TELEPHONE NUMBER(S)****(800) 424-9300 (24 Hours) CHEMTREC****WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) :**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

A claim has been submitted to the Hazardous Materials Information Review Commission (HMIRC) for exemption from disclosure of a substance.

HMIRC Registry Number : 6639

Filed : 06/01/2006

WHMIS CLASSIFICATION :

B3 - Combustible Liquids

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) :

The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

AUSTRALIA

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

CHINA

All substances in this product comply with the Chemical Control Law and are listed on the Inventory of Existing Chemical Substances China (IECSC).

EUROPE

The substance(s) in this preparation are included in or exempted from the EINECS or ELINCS inventories

JAPAN

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Ministry of International Trade & Industry List (MITI).

KOREA

All substances in this product comply with the Toxic Chemical Control Law (TCCL) and are listed on the Existing Chemicals List (ECL)

PHILIPPINES

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

16. OTHER INFORMATION

Due to our commitment to Product Stewardship, we have evaluated the human and environmental hazards and exposures of this product. Based on our recommended use of this product, we have characterized the product's general risk. This information should provide assistance for your own risk management practices. We have evaluated our product's risk as follows:

* The human risk is: Low

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SAFETY DATA SHEET

PRODUCT

COREXIT (R) EC9500A

EMERGENCY TELEPHONE NUMBER(S)

(800) 424-9300 (24 Hours) CHEMTREC

* The environmental risk is: Low

Any use inconsistent with our recommendations may affect the risk characterization. Our sales representative will assist you to determine if your product application is consistent with our recommendations. Together we can implement an appropriate risk management process.

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

REFERENCES

Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists, OH., (Ariel Insight™™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Hazardous Substances Data Bank, National Library of Medicine, Bethesda, Maryland (TOMES CPS™™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.

Integrated Risk Information System, U.S. Environmental Protection Agency, Washington, D.C. (TOMES CPS™™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.

Title 29 Code of Federal Regulations, Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA), (Ariel Insight™™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, OH, (TOMES CPS™™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

Ariel Insight™™ (An integrated guide to industrial chemicals covered under major regulatory and advisory programs), North American Module, Western European Module, Chemical Inventories Module and the Generics Module (Ariel Insight™™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

The Teratogen Information System, University of Washington, Seattle, WA (TOMES CPS™™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

Prepared By : Product Safety Department

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