



From: Saperstein, Mark
Sent: Thu May 13 18:40:27 2010
To: Briggs, Steve; Tremmel, Fred J
Cc: Dobbie, John M; Mattler, Mary E.; Burnett, Donald M.

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Sent using BlackBerry

From: Mattler, Mary E.
To: Saperstein, Mark
Cc: Goon, Daniel; Burnett, Donald M.; Mattler, Mary E.; Tremmel, Fred J
Sent: Thu May 13 18:05:12 2010

PRIVILEGED



Mary

Mary E. Mattler

From: Mattler, Mary E.
Sent: Thursday, May 13, 2010 11:31 AM
To: Saperstein, Mark
Cc: Ahnell, Arden; Goon, Daniel; Burnett, Donald M.

PRIVILEGED



PRIVILEGED



Mary

Mary E. Mattler

From: Tremmel, Fred J
Sent: Thursday, May 13, 2010 9:00 AM
To: Mattler, Mary E.
Cc: Ahnell, Arden; Goon, Daniel; Saperstein, Mark

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From: Mattler, Mary E.
Sent: Thursday, May 13, 2010 8:43 AM
To: Tremmel, Fred J
Cc: Ahnell, Arden; Goon, Daniel; Mattler, Mary E.; Saperstein, Mark

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BP-HZN-2179MDL05015964

BPD361-019401

Regards,

Mary

Mary E. Mattler

From: Tremmel, Fred J

Sent: Thursday, May 13, 2010 8:31 AM

To: O'Shea, Kevin J; Ahnell, Arden; Goon, Daniel; Mattler, Mary E.; Saperstein, Mark

PRIVILEGED



From: O'Shea, Kevin J

Sent: Thursday, May 13, 2010 8:14 AM

To: Tremmel, Fred J

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Kevin

From: Robert Bourgeois, M.D. [mailto:cajunmd@b-m-c.net]

Sent: Wednesday, May 12, 2010 10:02 AM

To: Tremmel, Fred J; O'Shea, Kevin J; Saperstein, Mark; Bradshaw, Maria Dr.; Martin, Jean A; Nolan, James; Chau, May T

Cc: Heron, Richard

PRIVILEGED



Robert "Bob" M. Bourgeois, M.D., M.P.H., FACOEM

BOURGEOIS MEDICAL CLINIC

1201 Kenneth Drive

Morgan City, LA 70380
985-384-3355 Voice
985-384-2884 FAX
Web: www.b-m-c.net
E-mail: cajunmd@b-m-c.net

"We will be judged in the future by our actions today."

From: Tremmel, Fred J [<mailto:Fred.Tremmel@bp.com>]
Sent: Wednesday, May 12, 2010 8:11 AM
To: O'Shea, Kevin J; Saperstein, Mark; Robert Bourgeois, M.D.; Bradshaw, Maria Dr.; Martin, Jean A; Nolan, James; Chau, May T
Cc: Heron, Richard

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From: O'Shea, Kevin J
Sent: Wednesday, May 12, 2010 8:01 AM
To: Saperstein, Mark; Tremmel, Fred J; 'Robert Bourgeois, M.D.'; Bradshaw, Maria Dr.; Martin, Jean A; Nolan, James; Chau, May T

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From: bounce-26978939-6839408@listserv.unc.edu [<mailto:bounce-26978939-6839408@listserv.unc.edu>]
On Behalf Of M1har@aol.com
Sent: Wednesday, May 12, 2010 7:14 AM
To: O'Shea, Kevin J
Subject: [occ-env-med-l] Crude Oil Toxicity Factsheet
[Click here: Crude Oil Toxicity](#)

There is a lot of downright inaccurate and somewhat poorly considered advice "floating" around the popular media and net about the toxic potential of petroleum products.

After receiving a number of requests for info, Dr. Kathy Burns of Sciencecorps and I prepared this hyperlinked "Factsheet" with references.

It does correct some of the misinformation appearing in the media that millions of gallons of crude oil

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BPD361-019403

pumped into the Gulf may threaten some dolphins and seagulls, but won't be much more than a nuisance to people.

Obviously, it is not intended to serve as definitive medical advice in any specific situation.

It is intended to be shared.

**Michael R. Harbut, MD,
MPH, FCCP
CoDirector, National Center
for Vermiculite and
Asbestos-Related Cancers
Director, Environmental
Cancer Initiative
Karmanos Cancer Institute
Professor (Clinical), Internal
Medicine, Wayne State
University
Chief, Center for
Occupational and**

Environmental Medicine
Section Chief, Occ/Env
Medicine
Providence Hospital.
118 N. Washington
Royal Oak, Michigan
48067-1751
248.547.9100

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Material Safety Data Sheet



1. Product and company identification

Product name Mississippi Canyon 252 Weathered Crude Oil (Louisiana Light Sweet Crude)
Avoid activities that may aerosolize or create a mist of weathered crude oil during cleanup.

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

*** draft only ***

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 exposure - obtain special instructions before use. Avoid breathing vapors, spray or mists. Do not ingest. If ingested, do not induce vomiting. Avoid contact with eyes, skin and clothing. Use adequate ventilation. 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. Avoid activities that may aerosolize or create a mist of weathered crude oil during cleanup.

Ingestion Causes gastrointestinal irritation and diarrhea.

See toxicological information (section 11)

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		Language ENGLISH. (ENGLISH)

3. Composition/information on ingredients

Low molecular weight, highly volatile components are not present.

Lowest molecular weight hydrocarbon detected in the whole oil analysis was the alkane n-C14.

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

Ingredient name	CAS #	%
Crude oil	8002-05-9	98 - 100
Contains:		
Benzene	71-43-2	<0.1
Toluene	108-88-3	<0.1
xylene	1330-20-7	<0.1
Ethylbenzene	100-41-4	<0.1
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. Get medical attention.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
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.

5. Fire-fighting measures

Flammability of the product	May be combustible at high temperature. *** draft only ***
Flash point	Closed cup: >93 °C - 99 °C (ESTIMATED)
Fire/explosion hazards	May be combustible at high temperature.
Unusual fire/explosion hazards	None identified.
<u>Extinguishing media</u>	
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 dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
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

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Large spill	Obtain special instructions for cleanup.
Small spill	Obtain special instructions for cleanup.

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. Avoid breathing vapors, spray or mists. 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.
Other information	Regular periodic self inspection of the skin is recommended, especially those areas subject to contamination. In the event of any localised changes in appearance or texture of the skin being noticed, medical advice should be sought without delay.

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/m³ 15 minute(s). Form: All forms
TWA: 360 mg/m³ 8 hour(s). Form: All forms
ACGIH TLV (United States).
STEL: 10 mg/m³ 15 minute(s). Form: OIL MIST, MINERAL
TWA: 5 mg/m³ 8 hour(s). Form: OIL MIST, MINERAL
OSHA PEL (United States).
TWA: 5 mg/m³ 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. Use explosion-proof ventilation equipment.
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. Avoid breathing vapors, spray or mists. 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.

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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

draft only

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.

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.

Regular periodic self inspection of the skin is recommended, especially those areas subject to contamination. In the event of any localised changes in appearance or texture of the skin being noticed, medical advice should be sought without delay.

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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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 dispersal of spilled material and 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/CAO 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

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

CERCLA: Hazardous substances.: Benzene: 10 lbs. (4.54 kg); Toluene: 1000 lbs. (454 kg); xylene: 100 lbs. (45.4 kg); Ethylbenzene: 1000 lbs. (454 kg); 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.
Ethylbenzene; Naphthalene

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.

*** draft only ***

16. Other information

Label requirements

WARNING !

CAUSES EYE AND SKIN IRRITATION.

HMIS® Rating :

Health * 2
Flammability 2
Physical 0
Hazard
Personal X
protection

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

Health 2 0 Fire hazard
Instability
Specific hazard

History

Date of issue

Date of previous issue

08/31/2007.

Prepared by

Notice to reader

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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. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product 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.

*** draft only ***

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				Language	ENGLISH. (ENGLISH)