

1. Product and Company Identification

Material name	Drakeol® 7 LT MIN OIL NF
Version #	07
Revision date	08-11-2011
CAS #	8042-47-5
Manufacturer information	Calumet Specialty Products Partners, L.P. 2780 Waterfront Pkwy E. Dr. Suite 200 Indianapolis, IN 46214 United States www.calumetlubricants.com Technical Services 317-328-5660 CHEMTREC International 703-527-3887

2. Hazards Identification

OSHA regulatory status	This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential environmental effects	Ecological injuries are not known or expected under normal use.

3. Composition / Information on Ingredients

Non-hazardous components	CAS #	Percent
White mineral oil	8042-47-5	100

4. First Aid Measures

First aid procedures

Eye contact	Product is non-irritating.
Skin contact	Product is non-irritating.
Inhalation	Not applicable.
Ingestion	Not applicable.

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media	Water fog. Foam. Carbon dioxide (CO2). Dry chemicals.
Unsuitable extinguishing media	Water. Do not use water jet as an extinguisher, as this will spread the fire.

Protection of firefighters

Protective equipment and precautions for firefighters	Wear suitable protective equipment.
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Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray.
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6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away.
Methods for containment	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Methods for cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. Scrub the area with detergent and water.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

7. Handling and Storage

Handling

DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged or repeated contact with skin. Use only in well-ventilated areas. Avoid prolonged exposure.

Storage

Keep away from heat and sources of ignition. Store in a well-ventilated place. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Personal protective equipment

Eye / face protection

Do not get in eyes. Chemical goggles are recommended.

Skin protection

Wear appropriate chemical resistant clothing. Chemical resistant gloves.

General hygiene considerations

Do not get in eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance

Product is water-white liquid.

Physical state

Liquid.

Form

Liquid.

Color

Transparent Water-White

Odor

None.

Boiling point

> 599 °F (> 315 °C) estimated

Flash point

360 °F (182.2 °C) ASTM D92

Auto-ignition temperature

579.2 °F (304 °C) estimated

VOC

4 % EPA Method 24

Viscosity

70 SUS ASTM D2161

Viscosity temperature

100 °F (37.8 °C)

Pour point

-17 °F (-27.2 °C) ASTM D97

Other data

Density

0.8749 g/cm³

Kinematic viscosity

< 13.6 mm²/s ASTM D445

Kinematic viscosity temp

104 °F (40 °C)

10. Chemical Stability & Reactivity Information

Chemical stability

Material is stable under normal conditions.

Conditions to avoid

Heat, flames and sparks. Avoid temperatures exceeding the flash point.

Incompatible materials

Not available.

Hazardous decomposition products

Not available.

11. Toxicological Information

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Skin corrosion/irritation

Product is non-irritating.

12. Ecological Information

MSDS-800-218

Ecotoxicity	This product has no known eco-toxicological effects.
Persistence and degradability	Not available.

13. Disposal Considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the User of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

DOT NON-BULK

Not regulated as dangerous goods.

DOT BULK

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations	This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.
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CERCLA/SARA Hazardous Substances - Not applicable.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))

Not regulated

DEA Essential Chemical Code Number

Not regulated

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated

DEA Exempt Chemical Mixtures Code Number

Not regulated

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

Section 311 hazardous chemical No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

State regulations

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

16. Other Information**Further information**

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 0
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 0
Flammability: 1
Instability: 0

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

Issue date

08-11-2011

This data sheet contains changes from the previous version in section(s):

Physical & Chemical Properties: Multiple Properties



SAFETY DATA SHEET

14.17.890, 0020, 4519, 4522

1. IDENTIFICATION

Product identifier

F-68822 CREAM BQT.

CAS-No Mixture

Recommended use of the chemical and restrictions on use

Recommended Use Fragrances.

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address

Intarome Fragrance & Flavor Corp.
370 Chestnut Street, Norwood, NJ 07648 USA
regulatory@intarome.com
www.intarome.com
Tel: 1-800-631-1566 Fax: 201-767-8757

Emergency telephone number

Chemtrec +1 800-424-9300 / International +1 703-527-3887 Customer Contract Number : 227771

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

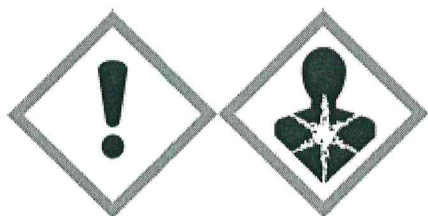
Skin sensitization Category 1B

Reproductive toxicity Category 2

Specific target organ toxicity (repeated exposure) Category 2

Emergency Overview

Label elements



Signal word

Warning

Hazard statements

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

Suspected of damaging fertility or the unborn child

May cause damage to organs through prolonged or repeated exposure

Appearance clear liquid

Physical state liquid

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Odor No information available

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation or rash occurs: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

May be harmful if swallowed May be harmful in contact with skin Harmful to aquatic life with long lasting effects Toxic to aquatic life

Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS-No	Percent	Trade Secret
DIETHYL PHTHALATE	84-66-2	10-20	*
BENZYL ACETATE	140-11-4	10-20	*
BENZYL SALICYLATE	118-58-1	10-20	*
BENZYL ALCOHOL	100-51-6	1 - 10	*
PHENYL ETHYL ALCOHOL	60-12-8	1 - 10	*
LINALOOL	78-70-6	1 - 10	*
ISO AMYL SALICYLATE	87-20-7	1 - 10	*
AMYL CINNAMIC ALDEHYDE	122-40-7	1 - 10	*
CLOVE STEM OIL	8000-34-8	1 - 10	*
HELIOTROPINE	120-57-0	1 - 10	*
HYDROXYCITRONELLAL	107-75-5	1 - 10	*
VANILLIN	121-33-5	1 - 10	*
LINALYL ACETATE	115-95-7	1 - 10	*
COUMARIN	91-64-5	1 - 10	*
AURANTIOL	89-43-0	1 - 10	*
COPAIBA OIL	8001-61-4	1 - 10	*
LAVANDIN OIL	8022-15-9	<1	*
BOIS DE ROSE OIL	8015-77-8	<1	*
ISO EUGENOL	97-54-1	<1	*
METHYL PARA CRESOL	104-93-8	<1	*
GERANYL ACETATE	105-87-3	<1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin contact	Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash off immediately with soap and plenty of water.
Inhalation	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Call a physician.
Ingestion	Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician. Rinse mouth.
Self-protection of the first aider	Use personal protective equipment as required.
Most important symptoms and effects, both acute and delayed	

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Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Avoid breathing fumes from hot material. In case of inadequate ventilation wear respiratory protection.

Suitable extinguishing media. Foam. Dry chemical. or. Carbon dioxide (CO₂).

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Cover liquid spill with sand, earth or other non-combustible absorbent material. Use personal protective equipment as required. Dam up. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use personal protective equipment as

SAFETY DATA SHEET

required. Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
DIETHYL PHTHALATE 84-66-2	TWA: 5 mg/m ³	(vacated) TWA: 5 mg/m ³	TWA: 5 mg/m ³
BENZYL ACETATE 140-11-4	TWA: 10 ppm	-	-

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tight sealing safety goggles.

Skin and body protection

Wear protective gloves and protective clothing.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.



General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid
Appearance	clear liquid
Odor	Characteristic
Color	yellow
Odor threshold	No information available

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<u>Property</u>	<u>Values</u>
pH	No information available
Melting point/freezing point	No information available
Boiling point / boiling range	> 35 °C / 95 °F
Flash point	94 °C / 201 °F
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity	1.0400-1.0600
Water solubility	No information available
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Refractive Index	1.5080-1.5280
Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity

None under normal use conditions

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Product may ignite and burn at temperatures exceeding the flash point.

Incompatible materials

Incompatible with oxidizing agents Acids And Alkali

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	No data available
Inhalation	No data available.
Eye contact	No data available.

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Skin contact No data available.

Ingestion No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
DIETHYL PHTHALATE 84-66-2	= 8600 mg/kg (Rat)	> 11200 mg/kg (Rat)	-
BENZYL ACETATE 140-11-4	= 2490 mg/kg (Rat)	> 5000 mg/kg (Rabbit) > 5 g/kg (Rabbit)	-
BENZYL SALICYLATE 118-58-1	= 2227 mg/kg (Rat)	= 14150 mg/kg (Rabbit)	-
BENZYL ALCOHOL 100-51-6	= 1230 mg/kg (Rat)	= 2 g/kg (Rabbit)	= 8.8 mg/L (Rat) 4 h
PHENYL ETHYL ALCOHOL 60-12-8	= 1790 mg/kg (Rat)	= 0.79 mL/kg (Rabbit) = 790 µL/kg (Rabbit)	> 1.38 mg/L (Rat) 4 h
LINALOOL 78-70-6	= 2790 mg/kg (Rat)	= 5610 mg/kg (Rat)	-
ISO AMYL SALICYLATE 87-20-7	= 3300 mg/kg (Rat)	-	-
AMYL CINNAMIC ALDEHYDE 122-40-7	= 3730 mg/kg (Rat)	-	-
CLOVE STEM OIL 8000-34-8	= 1370 mg/kg (Rat)	= 1200 mg/kg (Rabbit)	-
HELIOTROPINE 120-57-0	= 2700 mg/kg (Rat)	> 5 g/kg (Rat)	-
HYDROXYCITRONELLAL 107-75-5	> 5 g/kg (Rat)	-	-
VANILLIN 121-33-5	= 1580 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	-
LINALYL ACETATE 115-95-7	= 13934 mg/kg (Rat)	-	-
COUMARIN 91-64-5	> 5000 mg/kg (Rat) = 293 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
COPAIBA OIL 8001-61-4	= 3790 µL/kg (Rat)	-	-
LAVANDIN OIL 8022-15-9	> 5 g/kg (Rat)	> 5 g/kg (Rabbit)	-
ISO EUGENOL 97-54-1	= 1560 mg/kg (Rat)	-	-
METHYL PARA CRESOL 104-93-8	= 1920 mg/kg (Rat)	> 5 g/kg (Rabbit)	> 6.1 mg/L (Rat) 4 h
GERANYL ACETATE 105-87-3	= 6330 mg/kg (Rat)	-	-

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
BENZYL ACETATE 140-11-4	-	Group 3	-	-
COUMARIN 91-64-5	-	Group 3	-	-

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IARC (International Agency for Research on Cancer)

Not classifiable as a human carcinogen

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Chronic toxicity

Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. Contains a known or suspected reproductive toxin.

Target Organ Effects

Central nervous system, Eyes, Peripheral Nervous System (PNS), Reproductive System, Respiratory system, Skin.

Aspiration hazard

No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document . mg/kg mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects

14.438% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
DIETHYL PHTHALATE 84-66-2	2.11 - 4.29: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 21: 96 h Desmodesmus subspicatus mg/L EC50 static 42 - 255: 72 h Pseudokirchneriella subcapitata mg/L EC50 21: 96 h Desmodesmus subspicatus mg/L EC50 23: 72 h Desmodesmus subspicatus mg/L EC50 static 23: 72 h Desmodesmus subspicatus mg/L EC50	16.8: 96 h Pimephales promelas mg/L LC50 static 22: 96 h Lepomis macrochirus mg/L LC50 flow-through 12: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 16.7: 96 h Lepomis macrochirus mg/L LC50 static 17: 96 h Pimephales promelas mg/L LC50 flow-through	86: 48 h Daphnia magna mg/L EC50 Static 36 - 74: 48 h Daphnia magna mg/L EC50
BENZYL ALCOHOL 100-51-6	35: 3 h Anabaena variabilis mg/L EC50	10: 96 h Lepomis macrochirus mg/L LC50 static 460: 96 h Pimephales promelas mg/L LC50 static	23: 48 h water flea mg/L EC50
PHENYL ETHYL ALCOHOL 60-12-8	490: 72 h Desmodesmus subspicatus mg/L EC50	220 - 460: 96 h Leuciscus idus mg/L LC50 static	287.17: 48 h Daphnia magna mg/L EC50
LINALOOL 78-70-6	88.3: 96 h Desmodesmus subspicatus mg/L EC50	22 - 46: 96 h Leuciscus idus mg/L LC50 static	20: 48 h Daphnia magna mg/L EC50
VANILLIN 121-33-5	-	53 - 61.3: 96 h Pimephales promelas mg/L LC50 flow-through 57: 96 h Pimephales promelas mg/L LC50 semi-static 88: 96 h Pimephales promelas mg/L LC50 static	180: 24 h Daphnia magna mg/L EC50
METHYL PARA CRESOL 104-93-8	320: 72 h Desmodesmus subspicatus mg/L EC50 390: 96 h Desmodesmus subspicatus mg/L EC50	46 - 100: 96 h Leuciscus idus mg/L LC50 static	44.2: 48 h Daphnia magna Straus mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
BENZYL ACETATE 140-11-4	1.96
BENZYL ALCOHOL	1.1

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100-51-6	
LINALOOL 78-70-6	2.84 - 3.1
VANILLIN 121-33-5	1.23
METHYL PARA CRESOL 104-93-8	2.659

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Dispose of in accordance with federal, state and local regulations.

US EPA Waste Number U088

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
DIETHYL PHTHALATE 84-66-2	U088	Included in waste stream: F039	-	U088
ISO EUGENOL 97-54-1	-	Included in waste stream: K060	-	-

14. TRANSPORTATION INFORMATION

DOT

Not Regulated as Dangerous Goods

IATA

UN/ID no. UN3082
Hazard Class 9
Packing Group III
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (AMYL CINNAMIC ALDEHYDE), 9, III

IMDG

UN/ID no. UN3082
Hazard Class 9
Packing Group III
EmS-No. F-A, S-F
Special Provisions 274, 335
Marine pollutant This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (AMYL CINNAMIC ALDEHYDE), 9, III

ADR

SAFETY DATA SHEET

UN/ID no.	UN3082
Hazard Class	9
Packing Group	III
Classification code	M6
Tunnel restriction code	(E)
Special Provisions	274, 335, 601
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (AMYL CINNAMIC ALDEHYDE), 9, III
Labels	9
Classification code	M6

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDL	Complies
EINECS/ELINCS	Complies
ENCS	No data available
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies
NZIoC	No data available

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
DIETHYL PHTHALATE 84-66-2	-	X	X	-

SAFETY DATA SHEET

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
DIETHYL PHTHALATE 84-66-2	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
DIETHYL PHTHALATE 84-66-2	X	X	X
BENZYL ACETATE 140-11-4	X	-	-
METHYL SALICYLATE 119-36-8	-	-	X
ALPHA PINENE 80-56-8	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Revision Date 02-Feb-2016

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



SAFETY DATA SHEET

Creation Date 22-Sep-2009

Revision Date 10-Feb-2015

14.17.890, 0028, 4519, 4522
Revision Number 1

1. Identification

Product Name Isopropyl myristate

Cat No. : AC412850000; AC412850010; AC412850250; AC412851000

Synonyms 1-Tridecanecarboxylic Acid, Isopropyl Ester; Isopropyl Tetradecanoate

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01
/ **Europe** call: +32 14 57 52 11
Emergency Number **US**:001-201-796-7100 /
Europe: +32 14 57 52 99
CHEMTREC Tel. No.**US**:001-800-424-9300 /
Europe:001-703-527-3887

2. Hazard(s) Identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

Label Elements

Signal Word
Warning

Hazard Statements
Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation



Precautionary Statements

Prevention

Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling
Avoid breathing dust/fume/gas/mist/vapors/spray

Response

Call a POISON CENTER or doctor/physician if you feel unwell

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Storage

Store locked up
Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition / Information on Ingredients

Component	CAS-No	Weight %
Isopropyl myristate	110-27-0	96

4. First-aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.
Ingestion	Do not induce vomiting. Obtain medical attention.
Most important symptoms/effects	No information available.
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	No information available
Flash Point	> 110 °C / > 230 °F
Method -	No information available
Autoignition Temperature	No information available
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion ProductsCarbon monoxide (CO) Carbon dioxide (CO₂)**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPAHealth
2Flammability
0Instability
0Physical hazards
N/A**6. Accidental release measures****Personal Precautions**

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. Avoid contact with skin, eyes and clothing.

Environmental Precautions

See Section 12 for additional ecological information.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal.**7. Handling and storage****Handling**

Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Avoid breathing dust/fume/gas/mist/vapours/spray.

Storage

Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

8. Exposure controls / personal protection**Exposure Guidelines**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment**Eye/face Protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties**Physical State**

Liquid

Appearance

Clear

Odor

No information available

Odor Threshold

No information available

pH

No information available

Melting Point/Range	No data available
Boiling Point/Range	167 °C / 332.6 °F @ 9 mm Hg
Flash Point	> 110 °C / > 230 °F
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	9.32
Relative Density	0.850
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C17 H34 O2
Molecular Weight	270.45

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Oxidizing agents
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological Information

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropyl myristate	10000 mg/kg (Rat)	5 g/kg (Rabbit)	41 mg/l (Rat) 1 h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation	Irritating to eyes, respiratory system and skin
Sensitization	No information available
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Isopropyl myristate	110-27-0	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity	No information available.
STOT - single exposure	Respiratory system
STOT - repeated exposure	None known
Aspiration hazard	No information available
Symptoms / effects, both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

12. Ecological Information

Ecotoxicity

Do not empty into drains. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Isopropyl myristate	100 mg/L EC50 > 72 h	8400 mg/L LC50 96 h	Not listed	100 mg/L EC50 = 48 h

Persistence and Degradability No information available

Bioaccumulation/ Accumulation No information available.

Mobility

Component	log Pow
Isopropyl myristate	6

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport Information

DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

15. Regulatory Information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Isopropyl myristate	X	X	-	203-751-4	-		X	X	X	X	X

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicableCERCLA
Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

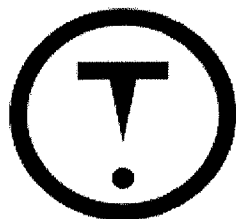
U.S. Department of Homeland Security
This product does not contain any DHS chemicals.Other International Regulations

Mexico - Grade No information available

Canada

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 Hazard Class D2B Toxic materials

**16. Other Information**

Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
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Creation Date	22-Sep-2009
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Revision Date	10-Feb-2015
Print Date	10-Feb-2015
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

PROTACHEM SOC
 MATERIAL SAFETY DATA SHEET
 PRODUCT CODE 2710
 ISSUE DATE: MARCH 1, 2012



Protameen Chemicals Inc.
 375 Minnisink Road
 Totowa, NJ 07511
 (973) 256-4374
 (973) 256-6764 FAX
 www.protameen.com

14.17.870, 4428, 4519, 4522

SECTION 1. MATERIAL AND MANUFACTURER IDENTIFICATION

Company Name: Protameen Chemicals, Inc.
 375 Minnisink Road
 Totowa, NJ 07511
 973-256-4374

Emergency Telephone No.: CHEMTEL 800-255-3924

Material: PROTACHEM SOC
INCI Name: Sorbitan Sesquioleate
Product Use Description: Emulsifier

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview:

Caution

Form: Appearance: Yellow oily liquid.
 Hazard Summary: May cause eye irritation: Repeated / prolonged contact may cause skin irritation.

OSHA Hazards: Mild eye irritant
 Moderate skin irritant

Potential Health Effects:

Primary Routes of Entry: Eyes
 Skin
 Inhalation
 Ingestion

Inhalation: No information available.
 Skin: Causes moderate skin irritation.
 Eyes: May cause eye irritation.
 Ingestion: May be harmful if swallowed.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	PERCENT
SORBITAN SESQUIOLEATE	8007-43-0	97 – 100
FATTY ACIDS, C14-18 AND C16-18-UNSTAUATED	67701-06-8	0 – 3

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SECTION 4. FIRST AID MEASURES

First Aid Procedures:

Inhalation: No special precautions required.

Skin Contact: Wash with water and soap as a precaution.
If irritation persists, call a physician.

Eye Contact: Immediately flush eye(s) with plenty of water.
If eye irritation persists, consult a specialist.

Ingestion: Immediately give large quantities of water to drink.
Do not induce vomiting without medical advice.
Never give anything by mouth to an unconscious person.

SECTION 5. FIRE FIGHTING MEASURES

Flammable Properties:

Flash Point: 392°F (200°C)
Method: DIN 51376

Ignition Temperature: No data available
Lower Explosion Limit: No data available
Upper Explosion Limit: No data available

Fire Fighting:

Suitable Extinguishing Media: Water spray
Dry powder
Foam

Further Information: Use water spray to cool unopened containers.

Protective Equipment and Precautions for Firefighters:

Specific Hazards During Fire Fighting: Heating or fire can release toxic gas.

Specific Protective Equipment for Fire-fighters: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment.

Environmental Precautions: Prevent product from entering drains.

**Methods for Containment /
Methods for Clean-up:** Contain spillage, and then collect with non-combustible absorbent material
(e.g. sand, earth, diatomaceous earth, vermiculite) and place in container
for disposal according to local/national regulations (see Section 13).

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SECTION 7. HANDLING AND STORAGE

Handling:

Handling: No special precautions required.

Advice on Protection Against Fire and Explosion: Take precautionary measures against static discharges.

Storage:

Requirements for Storage: Keep container tightly closed.

Areas and Containers: To maintain product quality, do not store in heat or direct sunlight. Keep in a dry, cool and well-ventilated place.

SECTION 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure Guidelines:

Contains no substance with occupational exposure limit values.

Engineering Measures:

Personal Protective Equipment:

Eye Protection: Tight fitting safety goggles.

Hand Protection: Nitrile rubber gloves.

Protective Clothing: No special protective equipment required.

Respiratory Protection: No personal respiratory protective equipment normally required.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form: Liquid

Color: Yellow

Odor: Mild

Safety Data:

Flash Point: 392°F (200°C)
 Method: DIN 51376

Ignition Temperature: No data available

Lower Explosion Limit: No data available

Upper Explosion Limit: No data available

pH: 6.5 @ 50 g/l (as a dispersion)

Melting Point/Range: No data available

Boiling Point/Range: No data available

Density: 1.0 g/cm³ @ 77°F (25°C)

Water Solubility: Dispersible

Viscosity, dynamic: 1250 mPa.s @ 77°F (25°C)

PROTACHEM SOC
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www.protameen.com

SECTION 10. STABILITY AND REACTIVITY

Conditions to Avoid: No data available

Materials to Avoid: Strong acids and strong bases.
Strong oxidizing agents.

Hazardous Decomposition Products: Carbon oxides
Heating or fire can release toxic gas.

Hazardous Reactions: Hazardous polymerization will not occur.
Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: LD50 Rat
Dose: > 39 800 mg/kg

Skin Irritation: Rabbit
Result: Moderate irritant

Eye Irritation: Rabbit
Result: Mild irritant

Sensitization: No data available

Further Information: Information given is based on data on the components and the toxicology of similar products. No data available on the product itself.

SECTION 12. ECOLOGICAL INFORMATION

Ecological Information: No data is available on this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Contaminated Packaging: Where possible, recycling is preferred to disposal or incineration.

SECTION 14. TRANSPORT INFORMATION

DOT: Not dangerous goods.

TDG: Not dangerous goods.

IATA: Not dangerous goods.

IMDG-Code: Not dangerous goods.

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RID: Not dangerous goods.

SECTION 15. REGULATORY INFORMATION

OSHA Hazards: Mild eye irritant. Moderate skin irritant.

TSCA Status: All components of this product are currently listed on the EPA TSCA 8(b) Inventory list or are incidental by-products..

SARA 311/312 Hazards: Acute Health Hazard

ECPRA – Emergency Planning Community Right-to-Know

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations:

Massachusetts Right to Know: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know: No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right to Know: No components are subject to the New Jersey Right to Know Act.

California Prop. 65 Chemicals: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SECTION 16. OTHER INFORMATION

HMIS INFORMATION

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0

NFPA INFORMATION:

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0

HISTORY:

ORIGINAL ISSUE:	OCTOBER 26, 1989
REVISION 1:	JANUARY 15, 2003
REVISION 2:	FEBRUARY 4, 2010
REVISION 3:	March 1, 2012

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Material Safety Data Sheet

14.17.0020, 890, 4519, 4522

1. Product and company identification

Product code : C19012/FD05KG
 Product name : C19012 SUNCROMA™ D&C RED 6 BA LAKE
 Manufacturer : Sun Chemical Corporation
 5020 Spring Grove Avenue
 Cincinnati, OH 45232-1999
 Phone: +1 (513) 681-5950
 In case of emergency : (800) 424-9300 (U.S.)
 (703) 527-3887 (International)
 Date of revision : 3/30/2010.

2. Hazards identification

Physical state : Solid. [Powder.]
 Odor : Odorless.
 Color : Red.
 OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
 Emergency overview : WARNING!
 Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. May cause sensitization by inhalation and skin contact. Do not breathe dust. Do not get on skin or clothing. Contains material that may cause target organ damage, based on animal data. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Potential acute health effects

Eyes : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
 Skin : May cause sensitization by skin contact.
 Inhalation : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. May cause sensitization by inhalation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
 Ingestion : No known significant effects or critical hazards.

Potential chronic health effects

Carcinogenic effects : No known significant effects or critical hazards.
 Mutagenic effects : No known significant effects or critical hazards.
 Teratogenicity / Reproductive toxicity : No known significant effects or critical hazards.

Medical conditions aggravated by over-exposure : Pre-existing respiratory and skin disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
barium sulfate	7727-43-7	40-70
Calcium Resinate	9007-13-0	2.5-5

4. First aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion** : Wash out mouth with water. 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.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

5. Fire-fighting measures

- Flammability of the product** : No specific fire or explosion hazard.
- Products of combustion** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
metal oxide/oxides
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : 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.
- Special protective equipment for fire-fighters** : 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

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- 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).
- Methods for cleaning up** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing dust. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. 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

Product name

barium sulfate

Exposure limits

ACGIH TLV (United States, 1/2008).

TWA: 10 mg/m³ 8 hour(s).

OSHA PEL (United States, 11/2006).

TWA: 5 mg/m³ 8 hour(s). Form: Respirable fractionTWA: 15 mg/m³ 8 hour(s). Form: Total dust

OSHA PEL 1989 (United States, 3/1989).

TWA: 5 mg/m³ 8 hour(s). Form: Respirable fractionTWA: 10 mg/m³ 8 hour(s). Form: Total dust

- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Personal protection**
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If operating conditions cause high dust concentrations to be produced, use dust goggles.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- 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. Ensure that eyewash stations and safety showers are close to the workstation location.

9 . Physical and chemical properties

Physical state	: Solid. [Powder.]
Color	: Red.
Odor	: Odorless.
Flash point	: Closed cup: Not applicable.
VOC	: 0 % (w/w)
Solubility	: Insoluble in the following materials: cold water, hot water, methanol, diethyl ether, n-octanol and acetone.

10 . Stability and reactivity

Stability and reactivity	: The product is stable.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

11 . Toxicological information

Acute toxicity

Conclusion/Summary : No known significant effects or critical hazards.

Chronic toxicity

Conclusion/Summary : No known significant effects or critical hazards.

Carcinogenicity

Conclusion/Summary : No known significant effects or critical hazards.

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
barium sulfate	A4	-	-	-	-	-

Mutagenicity

Conclusion/Summary : No known significant effects or critical hazards.

Teratogenicity

Conclusion/Summary : No known significant effects or critical hazards.

Reproductive toxicity

Conclusion/Summary : No known significant effects or critical hazards.

12 . Ecological information

Ecotoxicity data

Product/ingredient name	Test	Result	Species	Exposure
barium sulfate	-	Acute EC50 32000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours

Other adverse effects : No known significant effects or critical hazards.

13 . Disposal considerations

Waste disposal : 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.

13 . Disposal considerations

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14 . Transport information

Regulatory information	UN number	Proper shipping name	Class	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-	-	-

PG* : Packing group

15 . Regulatory information

HCS Classification : Sensitizing material
Target organ effects

TSCA 8(b) inventory : Listed

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

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: barium sulfate; Calcium Resinate

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:
barium sulfate: Immediate (acute) health hazard; Calcium Resinate: Fire hazard

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

SARA 313

	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
Form R - Reporting requirements	: Not available.	17852-98-1	54
	Not Applicable	7727-43-7	42.5
Supplier notification	: Not available.	17852-98-1	54

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations :

- Connecticut Carcinogen Reporting**: None of the components are listed.
- Connecticut Hazardous Material Survey**: None of the components are listed.
- Florida substances**: None of the components are listed.
- Illinois Chemical Safety Act**: None of the components are listed.
- Illinois Toxic Substances Disclosure to Employee Act**: None of the components are listed.
- Louisiana Reporting**: None of the components are listed.
- Louisiana Spill**: None of the components are listed.
- Massachusetts Spill**: None of the components are listed.
- Massachusetts Substances**: The following components are listed: BARIUM SULFATE
- Michigan Critical Material**: None of the components are listed.
- Minnesota Hazardous Substances**: None of the components are listed.
- New Jersey Hazardous Substances**: The following components are listed: BARIUM

15 . Regulatory information

COMPOUND, n.o.s.; BARIUM COMPOUND, n.o.s.; CALCIUM RESINATE

New Jersey Spill: None of the components are listed.

New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.

New York Acutely Hazardous Substances: None of the components are listed.

New York Toxic Chemical Release Reporting: None of the components are listed.

Pennsylvania RTK Hazardous Substances: The following components are listed:

BARIUM COMPOUNDS; BARIUM SULFATE

Rhode Island Hazardous Substances: None of the components are listed.

International lists

International lists

: 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: All components are listed or exempted.

Korea inventory: All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

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

16 . Other information

Label requirements

: MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

Hazardous Material

Information System (U.S.A.)

Health	*	1
Fire hazard		1
Reactivity		0

National Fire Protection

Association (U.S.A.)



Date of printing

: 23- July- 2010

Version

: 0.08

Information contact

: ProductSafety@Sunchemical.com

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

STRAHL & PITSCH INC.

230 Great East Neck Road
West Babylon, NY 11704

SAFETY DATA SHEET

1. Identification**Product Name:** Ozokerite Wax**Synonyms:** Ozokerite Wax**Product Use:** Pharmaceutical/Cosmetic/Personal Care**Manufacturer/Supplier:**Strahl & Pitsch, Inc
230 Great East Neck Rd
West Babylon, NY 11704
631-587-9000**2. Hazards Identification****GHS Classification:**

Health	Environmental	Physical
N/A	N/A	N/A

GHS Label:**Symbols:** not applicable

Hazard Statements	Precautionary Statements
None	Contact with molten wax may cause thermal burns

3. Composition / Information on Ingredients

Chemical Name	Common Name
Not applicable	Ozokerite
CAS Number	Weight %
12198-93-5	100

Impurities/Additives

None

(See Section 8 for Exposure Limits)

4. First Aid Measures**Eye:** Eye irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get immediate medical attention.**Skin:** For contact with molten material, leave material on skin and flush or immerse affected area(s), using cold water. Seek Medical Attention.

STRAHL & PITSCHE INC.



230 Great East Neck Road
West Babylon, NY 11704

4. First Aid Measures (cont.)

Inhalation: If respiratory symptoms develop from exposure to fumes emitted by the molten material, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion: Solid material is not acutely toxic; however, if molten material is swallowed, seek immediate medical attention.

5. Fire Fighting Measures

Suitable Extinguishing Media: Dry chemical, foam, sand, water fog is recommended.

Unusual Fire and Explosion Hazards: This material may burn, but will not ignite readily.

Combustion Products: N/A

National Fire Protection Association (NFPA) Ratings: This information is intended solely for the use of individuals trained in the NFPA system.

Health: 0

Flammability: 1

Reactivity: 0

6: Accidental Release Measures:

This material may burn but will not ignite readily.

Isolate danger area and keep unauthorized personnel out.

Contain spill if it can be done with minimal risk. Wear appropriate protective equipment.

Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways.

Cleanup molten wax under supervision is advised.

STRAHL & PITSCHE INC.230 Great East Neck Road
West Babylon, NY 11704**7. Handling and Storage****Handling**

Wash thoroughly after handling. Do not wear contaminated clothing or shoes. Use good personal hygiene practice.

Storage

Store in tightly closed containers in cool, dry, well-ventilated area away from heat, sources of ignition and incompatibles such as strong oxidizers.

Store at ambient or lower temperature.

Store out of direct sunlight.

Keep containers tightly closed and upright when not in use. Protect against physical damage.

8. Exposure Controls / Personal Protection

Exposure Limits NONE

Personal Protective Equipment (PPE)

Eye Protection: When handling in molten form, proper eye shields are worn to prevent injury

Skin Protection: When handling in molten form, proper resistant clothing, gloves, and shoes must be worn.

Respiratory Protection: No special precautions for normal use

9. Physical and Chemical Properties

Appearance: White or Yellow solid at room temperature

Upper Flammability Limit: N/A

Lower Flammability Limit: N/A

Vapor Pressure: N/A

Odor Threshold: N/A

Vapor Density: N/A

pH: N/A

Specific Gravity: < 1g/ml @ 20°C

Melting Point: 70 -97 °C

Solubility: Insoluble in water. Soluble in organic solvents when warmed

Boiling Point: N/A

Flashpoint: 400°C

Flammability: Not flammable

Partition coefficient: Not determined

Auto ignition Temperature: N/A

Decomposition temperature: N/A

Viscosity: not determined.

STRAHL & PITSCH INC.



230 Great East Neck Road
West Babylon, NY 11704

10. Stability and Reactivity

Reactivity: This material is stable and unlikely to react in a hazardous manner under normal conditions of use.

Chemical Stability: Stable under normal conditions. Avoid strong oxidizing agents.

Hazardous Reactions: Avoid strong oxidizing agents.

Decomposition Products: Thermal decomposition can produce a variety of products which may include oxides of carbon and nitrogen.

11. Toxicological Information

Signs and Symptoms of Overexposure: Nasal and throat irritation.

Acute Effects:

Eye Contact: Not expected to be an eye irritant

Skin Contact: No harmful effects from skin adsorption.

Inhalation: Vapors emitted from molten wax are expected to have slight degree of irritation

Ingestion: No harmful effects are expected.

Acute Toxicity Values

Low acute toxicity

12. Ecological Information

Bioaccumulation is not expected. This product is readily biodegradable.

13. Disposal Considerations

Recover if possible complying with the local and national regulations currently in force.

14. Transport Information

U.S. Department of Transportation (DOT)

Proper Shipping Name: N/A

Hazard Class: N/A

UN/NA Number: Not Classified as dangerous in the meaning of transport regulations

Packing Group: N/A

International Maritime Organization (IMDG)

Not a marine pollutant

STRAHL & PITSCH INC.



230 Great East Neck Road
West Babylon, NY 11704

15. Regulatory Information

U.S. Federal Regulations

Toxic Substances Control Act (TSCA): All components of this product are included on the TSCA inventory.

Clean Water Act (CWA): Not hazardous.

Clean Air Act (CAA): Not Hazardous

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

This product contains no toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372)

State Regulations:

California: This product contains no chemicals(s) known to the State of California to cause cancer, birth defects or reproductive harm.

International Regulations:

Canadian Environmental Protection Act: All of the components of this product are included on the Canadian Domestic Substances list (DSL).

Canadian Workplace Hazardous Materials Information System (WHMIS):

This product has not been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

European Inventory of Existing Chemicals (EINECS): All of the components of this product are included on EINECS.

EU Classification: None

EU Risk (R) and Safety (S) Phrases: None

16. Other Information:

This SDS applies to Strahl & Pitsch Item Codes attached to the end of this document

Revision: New SDS May 28, 2015

Disclaimer: *The information contained herein is accurate to the best of our knowledge. My Company makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances.*

STRAHL & PITSCHE INC.



230 Great East Neck Road
West Babylon, NY 11704

SP-1016	WHITE OZOKERITE WAX
SP-1016G	White Ozokerite Granules
SP-1016P	OZOKERITE WAX PASTILLES
SP-1020	WHITE OZOKERITE WAX
SP-1020P	OZOKERITE WAX PASTILLES
SP-1021	WHITE OZOKERITE WAX
SP-1021P	OZOKERITE WAX PASTILLES
SP-1022	WHITE OZOKERITE WAX
SP-1022P	OZOKERITE WAX PASTILLES
SP-1023	WHITE OZOKERITE WAX
SP-1023P	WHITE OZOKERITE WAX PASTILLES
SP-1024	WHITE OZOKERITE WAX
SP-1024P	OZOKERITE WAX PASTILLES
SP-1025	WHITE OZOKERITE WAX
SP-1025P	OZOKERITE WAX PASTILLES
SP-1026	WHITE OZOKERITE WAX
SP-1026P	WHITE OZOKERITE WAX PASTILLES
SP-1028	WHITE OZOKERITE WAX
SP-1028P	OZOKERITE WAX PASTILLES
SP-109	WHITE OZOKERITE WAX
SP-1140	WHITE OZOKERITE WAX
SP-1190	WHITE OZOKERITE WAX
SP-1410	OZOKERITE WAX
SP-15	WHITE OZOKERITE WAX
SP-1554	White Ozokerite Wax
SP-157	WHITE OZOKERITE WAX
SP-162	OZOKERITE WAX
SP-162A	OZOKERITE WAX PASTILLES
SP-163	BLACK OZOKERITE WAX
SP-2020	OZOKERITE WAX
SP-2021	OZOKERITE WAX
SP-2021K	Ozokerite Wax
SP-2021P	Ozokerite Wax
SP-2026	Ozokerite Wax
SP-2173	OZOKERITE WAX
SP-2275	OZOKERITE WAX
SP-271P	OZOKERITE WAX PASTILLES
SP-273	WHITE OZOKERITE WAX
SP-273P	OZOKERITE WAX PASTILLES

STRAHL & PITSCHE INC.



230 Great East Neck Road
West Babylon, NY 11704

SP-367	YELLOW OZOKERITE WAX
SP-490	WHITE OZOKERITE WAX
SP-56	WHITE OZOKERITE WAX
SP-600	WHITE OZOKERITE WAX
SP-603	YELLOW OZOKERITE WAX
SP-869	YELLOW OZOKERITE WAX
SP-984	YELLOW OZOKERITE WAX
SP-986	YELLOW OZOKERITE WAX
SP-995P	YELLOW OZOKERITE WAX PASTILLES
SP-996P	WHITE OZOKERITE WAX PASTILLES

EM-1156	White Ozokerite Wax
EM-1168/W	WHITE OZOKERITE WAX
EM-1168W	White Ozokerite Wax
EM-1173	White Ozokerite Wax
EM-1173/1	WHITE OZOKERITE WAX
EM-1173/B	White Ozokerite Wax
EM-1174	White Ozokerite Wax
EM-1174/A	White Ozokerite Wax
EM-1175	White Ozokerite Wax Slabs
EM-1175/1	WHITE OZOKERITE WAX
EM-1175/2	WHITE OZOKERITE WAX
EM-1176	WHITE OZOKERITE WAX

JH-1174M	WHITE OZOKERITE WAX
JH-1176	WHITE OZOKERITE WAX
JH-1649	White Ozokerite Wax
JH-1680	WHITE OZOKERITE WAX

OZOKERITE	OZOKERITE WAX PASTILLES
OZOKERITE 73-76	OZOKERITE WAX 73-76 C



Material Safety Data Sheet

14.17.0020, 890, 4519, 4522

1. Product and company identification

Product code : C19003/FD25KG
Trade name : SunCROMA™ D&C Red 7
Product name : C19003 SUNCROMA™ D&C RED 7 CA LAKE
Manufacturer : Sun Chemical Corporation
5020 Spring Grove Avenue
Cincinnati, OH 45232-1999
Phone: +1 (513) 681-5950

In case of emergency : (800) 424-9300 (U.S.)
(703) 527-3887 (International)

Date of revision : 1/17/2011.

2. Hazards identification

Physical state : Solid. [Powder.]
Odor : Odorless.
Color : Red.
OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Emergency overview : Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. Contains material that may cause target organ damage, based on animal data.

Potential acute health effects

Eyes : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Skin : No known significant effects or critical hazards.
Inhalation : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion : No known significant effects or critical hazards.

Potential chronic health effects

Carcinogenic effects : No known significant effects or critical hazards.
Mutagenic effects : No known significant effects or critical hazards.
Teratogenicity / Reproductive toxicity : No known significant effects or critical hazards.

Medical conditions aggravated by over-exposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
barium sulfate	7727-43-7	25-40

4. First aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion** : Wash out mouth with water. 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.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

5. Fire-fighting measures

- Flammability of the product** : No specific fire or explosion hazard.
- Products of combustion** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
metal oxide/oxides
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : 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.
- Special protective equipment for fire-fighters** : 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

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- 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).
- Methods for cleaning up** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. 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

Product name

barium sulfate

Exposure limits

ACGIH TLV (United States, 1/2008).

TWA: 10 mg/m³ 8 hour(s).

OSHA PEL (United States, 11/2006).

TWA: 5 mg/m³ 8 hour(s). Form: Respirable fractionTWA: 15 mg/m³ 8 hour(s). Form: Total dust

OSHA PEL 1989 (United States, 3/1989).

TWA: 5 mg/m³ 8 hour(s). Form: Respirable fractionTWA: 10 mg/m³ 8 hour(s). Form: Total dust

- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Personal protection**
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If operating conditions cause high dust concentrations to be produced, use dust goggles.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- 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. Ensure that eyewash stations and safety showers are close to the workstation location.

9. Physical and chemical properties

- Physical state** : Solid. [Powder.]
- Color** : Red.
- Odor** : Odorless.
- Flash point** : Closed cup: Not applicable.
- VOC** : 0 % (w/w)

9 . Physical and chemical properties

Solubility : Insoluble in the following materials: cold water, hot water, methanol, diethyl ether, n-octanol and acetone.

10 . Stability and reactivity

Stability and reactivity : The product is stable.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

11 . Toxicological information

Acute toxicity

Conclusion/Summary : No known significant effects or critical hazards.

Chronic toxicity

Conclusion/Summary : No known significant effects or critical hazards.

Carcinogenicity

Conclusion/Summary : No known significant effects or critical hazards.

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
barium sulfate	A4	-	-	-	-	-

Mutagenicity

Conclusion/Summary : No known significant effects or critical hazards.

Teratogenicity

Conclusion/Summary : No known significant effects or critical hazards.

Reproductive toxicity

Conclusion/Summary : No known significant effects or critical hazards.

12 . Ecological information

Ecotoxicity data

Product/ingredient name	Test	Result	Species	Exposure
barium sulfate	-	Acute EC50 32000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours

Other adverse effects : No known significant effects or critical hazards.

13 . Disposal considerations

Waste disposal : 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

13 . Disposal considerations

14 . Transport information

Regulatory information	UN number	Proper shipping name	Class	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-	-	-

PG* : Packing group

15 . Regulatory information

HCS Classification : Target organ effects

TSCA 8(b) inventory : Listed

U.S. Federal regulations : TSCA 4(a) proposed test rules: No products were found.

TSCA 4(a) final test rules: No products were found.

TSCA 4(a) ITC priority list: No products were found.

TSCA 5(a)2 proposed significant rules: No products were found.

TSCA 5(a)2 final significant rules: No products were found.

TSCA 5(e) substance consent order: No products were found.

TSCA 6 proposed risk management: No products were found.

TSCA 6 final risk management: No products were found.

TSCA 8(a) chemical risk rules: No products were found.

TSCA 8(a) CAIR: No products were found.

TSCA 8(a) PAIR: No products were found.

TSCA 8(a) dioxin/furane precursor: No products were found.

TSCA 8(a) IUR Exempt/Partial exemption: No products were found.

TSCA 8(c) calls for record of SAR: No products were found.

TSCA 8(d) H and S data reporting: No products were found.

TSCA 12(b) one-time export: No products were found.

TSCA 12(b) annual export notification: No products were found.

TSCA precursor chemical list: No products were found.

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:** barium sulfate**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:**

barium sulfate: Immediate (acute) health hazard

Clean Water Act (CWA) 307: No products were found.**Clean Water Act (CWA) 311:** No products were found.**Clean Air Act (CAA) 112 accidental release prevention:** No products were found.**Clean Air Act (CAA) 112 regulated flammable substances:** No products were found.**Clean Air Act (CAA) 112 regulated toxic substances:** No products were found.

SARA 313

	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
Supplier notification	: None identified.		

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

15 . Regulatory information

State regulations

: **Connecticut Carcinogen Reporting:** None of the components are listed.
Connecticut Hazardous Material Survey: None of the components are listed.
Florida substances: None of the components are listed.
Illinois Chemical Safety Act: None of the components are listed.
Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.
Louisiana Reporting: None of the components are listed.
Louisiana Spill: None of the components are listed.
Massachusetts Spill: None of the components are listed.
Massachusetts Substances: The following components are listed: BARIUM SULFATE
Michigan Critical Material: None of the components are listed.
Minnesota Hazardous Substances: None of the components are listed.
New Jersey Hazardous Substances: The following components are listed: BARIUM SULFATE; SULFURIC ACID, BARIUM SALT (1:1)
New Jersey Spill: None of the components are listed.
New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.
New York Acutely Hazardous Substances: None of the components are listed.
New York Toxic Chemical Release Reporting: None of the components are listed.
Pennsylvania RTK Hazardous Substances: The following components are listed: BARIUM SULFATE
Rhode Island Hazardous Substances: None of the components are listed.

International lists

International lists

: **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: All components are listed or exempted.
Korea inventory: All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.

16 . Other information


Label requirements

: CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

Hazardous Material Information System (U.S.A.)

Health	*	1
Fire hazard		1
Reactivity		0

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

:  Health 1 Flammability 1 Instability 0 Special 0

Date of printing

: 14- March- 2011

Version

: 1.02

Information contact

: ProductSafety@Sunchemical.com

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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Lanolin, Anhydrous

14.17.890, 4519, 4522

SECTION 1 : Identification of the substance/mixture and of the supplier**Product name :****Lanolin, Anhydrous****Manufacturer/Supplier Trade name:****Manufacturer/Supplier Article number:** S25376**Recommended uses of the product and uses restrictions on use:****Manufacturer Details:**AquaPhoenix Scientific
9 Barnhart Drive, Hanover, PA 17331**Supplier Details:**Fisher Science Education
15 Jet View Drive, Rochester, NY 14624**Emergency telephone number:**

Fisher Science Education Emergency Telephone No.: 800-535-5053

SECTION 2 : Hazards identification**Classification of the substance or mixture:**

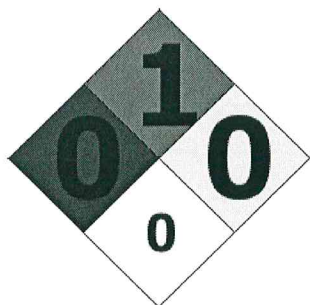
Not classified for physical or health hazards according to GHS.

Hazard statements:**Precautionary statements:**

If medical advice is needed, have product container or label at hand

Keep out of reach of children

Read label before use

Other Non-GHS Classification:**WHMIS
NFPA/HMIS**

NFPA SCALE (0-4)

Health	0
Flammability	1
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (0-4)

SECTION 3 : Composition/information on ingredients**Ingredients:**

CAS 8006-54-0

Lanolin, anhydrous

100 %

Lanolin, Anhydrous

Percentages are by weight

SECTION 4 : First aid measures**Description of first aid measures**

After inhalation: Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Get medical assistance if cough or other symptoms appear.

After skin contact: Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.

After eye contact: Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

After swallowing: Rinse mouth thoroughly. Seek medical attention if irritation, discomfort, or vomiting persists. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed:

Irritation. Headache. Nausea. Shortness of breath.; Not Determined

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

SECTION 5 : Firefighting measures**Extinguishing media**

Suitable extinguishing agents: Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents:

Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters:

Protective equipment: Wear protective eyewear, gloves, and clothing. Refer to Section 8. Use NIOSH-approved respiratory protection/breathing apparatus.

Additional information (precautions): Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

SECTION 6 : Accidental release measures**Personal precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation. Ensure that air-handling systems are operational.

Environmental precautions:

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

Methods and material for containment and cleaning up:

Wear protective eyewear, gloves, and clothing. Refer to Section 8. Use spill berms to contain spill and absorb spill from outside working way towards center. Place in appropriate container for disposal. For disposal, refer to Section 13.

Reference to other sections:**SECTION 7 : Handling and storage**

Lanolin, Anhydrous

Precautions for safe handling:

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed. Store away from incompatible materials. Store with similar hazards. Store in cool, dry place.

SECTION 8 : Exposure controls/personal protection

**Control Parameters:**

8006-54-0, Lanolin, anhydrous, This material has no known Exposure Limits.

Appropriate Engineering controls:

Provide adequate ventilation. Ensure eye wash and safety showers are available.

Respiratory protection:

Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

Protection of skin:

Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.

Eye protection:

Safety glasses or goggles are appropriate eye protection.

General hygienic measures:

Perform routine housekeeping. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing. Before wearing wash contaminated clothing.

SECTION 9 : Physical and chemical properties

Appearance (physical state,color):	Yellow paste	Explosion limit lower:	Not Determined
		Explosion limit upper:	Not Determined
Odor:	Slight characteristic odor	Vapor pressure:	Not Determined
Odor threshold:	Not Determined	Vapor density:	Not Determined
pH-value:	Not Determined	Relative density:	0.932-0.945
Melting/Freezing point:	38-44C	Solubilities:	Not water soluble.
Boiling point/Boiling range:	Not Determined	Partition coefficient (n-octanol/water):	Not Determined
Flash point (closed cup):	Not Determined	Auto/Self-ignition temperature:	445C

Lanolin, Anhydrous

Evaporation rate:	Not Determined	Decomposition temperature:	Not Determined
Flammability (solid,gaseous):	Not Determined	Viscosity:	a. Kinematic:Not Determined b. Dynamic: Not Determined
Density: Not Determined			

SECTION 10 : Stability and reactivity**Reactivity:**Nonreactive under normal conditions.**Chemical stability:**Stable under normal conditions.**Possible hazardous reactions:**None under normal processing.**Conditions to avoid:**Incompatible materials.High temperatures.**Incompatible materials:**Strong oxidizers.**Hazardous decomposition products:**Oxides of carbon.**SECTION 11 : Toxicological information**

Acute Toxicity: No additional information.	
Chronic Toxicity: No additional information.	
Corrosion Irritation: No additional information.	
Sensitization:	No additional information.
Single Target Organ (STOT):	No additional information.
Numerical Measures:	No additional information.
Carcinogenicity:	Lanolin, anhydrous 8006-54-0: Not listed as a carcinogen (ACGIH, IARC, NTP)
Mutagenicity:	No additional information.
Reproductive Toxicity:	No additional information.

SECTION 12 : Ecological information**Ecotoxicity Persistence and degradability:** Not Determined**Bioaccumulative potential:** Not Determined**Mobility in soil:** Not Determined**Other adverse effects:** Not Determined**SECTION 13 : Disposal considerations****Waste disposal recommendations:**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

SECTION 14 : Transport information

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UN-Number

Not Regulated

UN proper shipping name

Not Regulated

Transport hazard class(es)

Packing group:Not Regulated

Environmental hazard:

Transport in bulk:

Special precautions for user:

SECTION 15 : Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

SARA Section 313 (Specific toxic chemical listings):

None of the ingredients is listed

RCRA (hazardous waste code):

None of the ingredients is listed

TSCA (Toxic Substances Control Act):

All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients is listed

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

Chemicals known to cause developmental toxicity:

None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed

Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients is listed

SECTION 16 : Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note: The responsibility to

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provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

GHS Full Text Phrases:**Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods
PNEC: Predicted No-Effect Concentration (REACH)
CFR: Code of Federal Regulations (USA)
SARA: Superfund Amendments and Reauthorization Act (USA)
RCRA: Resource Conservation and Recovery Act (USA)
TSCA: Toxic Substances Control Act (USA)
NPRI: National Pollutant Release Inventory (Canada)
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)

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