

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

14.17.89φ, φφ2B, 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-UNSTAURATED	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 Areas and Containers: Keep container tightly closed.  
 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/cm<sup>3</sup> @ 77°F (25°C)

Water Solubility: Dispersible

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

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## 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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## SAFETY DATA SHEET

Creation Date 22-Sep-2009

Revision Date 10-Feb-2015

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	Entity / Business Name	Emergency Telephone Number
Fisher Scientific	Acros Organics	For information <b>US</b> call: 001-800-ACROS-01
One Reagent Lane	One Reagent Lane	/ <b>Europe</b> call: +32 14 57 52 11
Fair Lawn, NJ 07410	Fair Lawn, NJ 07410	Emergency Number <b>US</b> :001-201-796-7100 /
Tel: (201) 796-7100		<b>Europe</b> : +32 14 57 52 99
		<b>CHEMTREC</b> Tel. No. <b>US</b> :001-800-424-9300 /
		<b>Europe</b> :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

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

### 5. Fire-fighting measures

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

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>)

**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.

**NFPA**

Health 2	Flammability 0	Instability 0	Physical hazards N/A
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**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 <sub>2</sub> )
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 applicable

**CERCLA**  
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.

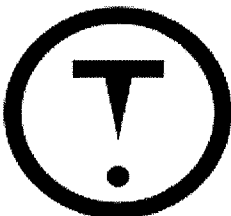
Other International Regulations

**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

**Creation Date** 22-Sep-2009

**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**

14.17.89φ, φφ28, 4519, 4522

**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.

**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.

**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/cm<sup>3</sup>

#### Kinematic viscosity

< 13.6 mm<sup>2</sup>/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-800-222-01

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.

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

**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 **E-5101 ULTRAMARINE BLUE****SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY****1.1 Product identifier**

Trade Name **Ultramarine Blue**  
 Chemical Name Sodium Alumino Sulphosilicate

**1.2 Relevant identified uses of the substance or mixture**

Blue pigment for personal care applications

**1.3 Details of the supplier of the safety data sheet**

Manufacturer: Color Techniques, Inc.  
 260 Ryan Street  
 South Plainfield, NJ 07080 USA

TELEPHONE: 908-412-9292  
 EMAIL: [mahmoudh@color-techniques.com](mailto:mahmoudh@color-techniques.com)  
 FAX: 908-412-9339

**1.4 Emergency telephone number**

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night  
 Within USA and Canada: 1-800-424-9300 CCN203590  
 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

**SECTION 2 POSSIBLE HAZARDS****2.1 Classification of the substance or mixture**

Ultramarines are not listed on Annex 1 to Directive 67/548 EEC on Classification and Labelling of Dangerous Substances and are not hazardous substances or mixtures according to Regulation (EC) No. 1272/2008.

GHS Classification:

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Pictogram No pictogram  
 Signal Word No signal word.

Hazard statement(s)

H316 Causes mild skin irritation  
 H320 Causes Eye irritation

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**2.2 Label elements**

No special labeling required

**2.3 Other Hazards**

-

**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

INGREDIENT NAME	CAS NUMBER	EINECS	COLOUR INDEX	REACH
Ultramarine Blue, 100%	57455-37-5	309-928-3	77007	01-2119488928-13

**3.2 Mixtures**

-

**SECTION 4 FIRST AID MEASURES****4.1 Description of first aid measures**

Eyes – flush eyes with plenty of water for at least 15 minutes. Consult a physician if irritation persists.  
 Skin – wash with soap and water.  
 Inhalation – remove to fresh air. If breathing is labored or stopped, give artificial respiration. Get immediate medical attention.  
 Ingestion – if swallowed, dilute with large amounts of water to induce vomiting. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

Acute – causes mechanical skin and eye irritation.

**4.3 Indications of any immediate medical attention and special treatment needed**

Eyes – may cause mechanical irritation  
 Skin – none  
 Inhalation – low health risk by inhalation. Treat as nuisance dust.

**SECTION 5 FIRE FIGHTING MEASURES****5.1 Extinguishing media**

Use extinguishing agent applicable to surrounding fire.

**5.2 Special hazards arising from substance or mixture**

Sulphur Dioxide gas can be liberated if this product undergoes chemical change during fire sustained by other materials.

**5.3 Advice for firefighters**

Fire fighters should wear NIOSH approved, positive pressure, self contained breathing apparatus (SCBA) and full protective clothing when appropriate.

**SECTION 6 ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment to avoid inhalation of dust

**6.2 Environmental precautions**

Avoid washing into waterways or public water supply.

**6.3 Methods and material for containment and cleaning up**

Avoid dust formation. Vacuum, sweep, shovel or use wet clean up techniques and place waste material in closed container.

**6.4 Reference to other sections**

See Section 1 for emergency contact information, Section 8 for appropriate personal protection and Section 13 for additional waste treatment information.

**SECTION 7 HANDLING AND STORAGE****7.1 Precautions for safe handling**

Handling: good industrial hygiene practice requires that employee exposure be maintained below tl<sub>v</sub>. This is preferably achieved through the provision of adequate ventilation where necessary. Where dust cannot be controlled in this way, personal respiratory protection should be employed.

**7.2 Conditions for safe storage, including any incompatibilities**

Storage: store in a clean, dry area at ambient temperature in original unopened containers. Conditions of high humidity may require storage in a controlled environment.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control Parameters**

Exposure Limits:

OEL: 10 mg/m<sup>3</sup> (8 hour reference period, inhalable dust)

OEL: 4 mg/m<sup>3</sup> (8 hour reference period, respirable dust)

**8.2 Exposure controls**

Engineering controls: use with adequate ventilation to meet exposure limits listed above.

Respiratory protection: NIOSH approved dust respirator if overexposure potential exists.

Skin protection: leather or rubber gloves.

Eye protection: safety glasses, goggles or face shield recommended.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Appearance: Blue powder  
 Vapor pressure: not applicable  
 Vapor density: not applicable  
 pH: 7-9 for aqueous suspension(10%)  
 Odor: none  
 Odor threshold: not applicable  
 Decomposition Temp: Loss of Sulphur above 400°C  
 Flash point: not applicable  
 Flammable properties: non-flammable  
 Flammable limits: not applicable  
 Auto-ignition temperature: not applicable  
 Specific gravity: 2.35  
 Solubility: Insoluble

**9.2 Other information****SECTION 10 STABILITY AND REACTIVITY****10.1 Reactivity**

Conditions to avoid: At temperatures above 400°C/750°F in the presence of air an exothermic reaction can occur with the liberation of Sulphur Dioxide gas (SO<sub>2</sub>).

**10.2 Chemical Stability**

Stable under recommended storage conditions

**10.3 Possibility of hazardous reactions**

Contact with acids liberates Hydrogen Sulphide gas (H<sub>2</sub>S)

**10.4 Conditions to avoid**

Temperatures above 400°C/750°F

**10.5 Incompatible materials**

Ultramarines are not compatible with acids

**10.6 Hazardous decomposing products**

Hazardous decomposition products formed under fire conditions. At temperatures above 400°C/750°F in the presence of air an exothermic reaction can occur with the liberation of Sulphur Dioxide gas (SO<sub>2</sub>). Contact with acids liberates Hydrogen Sulphide gas (H<sub>2</sub>S)

**SECTION 11 TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

There are no known dangerous acute effects associated with the use of this material. The acute oral toxicity ld<sub>50</sub> oral (rat): >10000mg/kg

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

## SECTION 12 ECOLOGICAL INFORMATION

### 12.1 Toxicity

No harmful effects known other than those associated with suspended inert solids in water.

### 12.2 Persistence and degradability

Methods for the determination of biodegradability are not applicable to inorganic substances

### 12.3 Bioaccumulative potential

The product is practically insoluble in water and not biodegradable

### 12.4 Mobility in soil

No information available

### 12.5 Results of PBT and vPvB assessment

According to Annex xiii of Regulation (EC) 1907/2006 A PBT and vPvB assessment shall not be conducted for inorganic substances. This material is an inorganic substance, thus a PBT and vPvB assessment is not required.

### 12.6 Other adverse effects

Under acidic conditions ultramarines will decompose to white siliceous material with the evolution of Hydrogen Sulphide gas.

LC<sub>50</sub>(fish) > 32000 mg/kg

## SECTION 13 DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

No hazardous waste according to European Directive 2000/5322/EC. Reclaim and recycle material if possible, otherwise dispose according to local regulations. As sold, this product is not classified as a RCRA hazardous waste as defined by 40CFR261. It is the responsibility of the user to determine RCRA classification of any product containing this ultramarine. Ultramarines should not be disposed of where there is a risk of contact with acids.

## SECTION 14 TRANSPORTATION INFORMATION

	DOT (USA)	IMDG	IATA
14.1 UN number	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No	No	No
14.6 Special precautions for user	Not classified as hazardous and not regulated		
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	-		

## SECTION 15 REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA status: components of this product are listed

Cercla reportable quantity: none

Sara Title III

Section 311/312 hazardous categories: none

Section 313 toxic chemicals: none

International regulations:

Canadian WHMIS – this material is not a controlled substance

European Community - listed on ecoin, the European Core Inventory

Canada (DSL): listed EC (einescs/elincs): listed

Australia (AICS): listed

Japan (ENCS): listed and are not hazardous substances or mixtures according to

Regulation (EC) No. 1272/2008, and are not hazardous substances or mixtures according to Regulation (EC) No. 1272/2008.

China (IECSC): listed

Korea (ECL): listed

New Zealand (HASNO)

Philippine (PICCS): listed

## SECTION 16 OTHER INFORMATION

NFPA Ratings:

Health

0

HMIS Ratings:

Health

0

Flammability

0

Flammability

0

Reactivity

0

Reactivity

0

Personal Protection E – Glasses, Gloves, Dust Resp.

GHS Classification:

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Pictogram No pictogram

Signal Word No signal word.

Hazard statement(s)

H316 Causes mild skin irritation

H320 Causes Eye irritation

Precautionary statement(s)

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

P305+P351+P338

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

This data is prepared in accordance with European Community Directive 2001/58/EC, to the best of our knowledge with current data available. The information contained in this document has been gathered from reference materials and /or Color Techniques Inc. test data and is to the best knowledge and belief of Color Techniques Inc., accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones, which exist. Color Techniques Inc. makes no warranty, expressed or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specification.

ISSUED: 9/13/05

REVISED: 6/07, 10/07, 6/08 (additions to Section XVI for EU compliance), 1/10(additions to Section XV regulatory), 1/13 (% added to Section III), 6/13 (SECTION I, expanded), SECTION VIII (added exposure controls and OEL), SECTION XVI (HMIS &NFPA rating added), 6/26/13 (Changes against last version: adaptation to directive 453/2010/EC, 9/15/2014 (GHS information added to Section 2,16), 10/16/2014 (Regulation EC No. 1272/2008 added to Section 2), 6/18/15 (H335 removed from Section 2,16).

END OF SDS

STRAHL &amp; PITSCHE 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

<i>Hazard Statements</i>	<i>Precautionary Statements</i>
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 & PITSCHE 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 & PITTSCH 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

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**

<b>Recommended Use</b>	Fragrances.
<b>Uses advised against</b>	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**

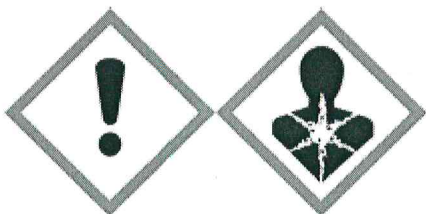
Chemtrec +1 800-424-9300 / International +1 703-527-3887 Customer Contract Number : 227771

## 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

**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

### 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**

**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



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 <sup>3</sup>	(vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
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

<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.

**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	-	-

**IARC (International Agency for Research on Cancer)**

Not classifiable as a human carcinogen

<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Chronic toxicity</b>	Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. Contains a known or suspected reproductive toxin.
<b>Target Organ Effects</b>	Central nervous system, Eyes, Peripheral Nervous System (PNS), Reproductive System, Respiratory system, Skin.
<b>Aspiration hazard</b>	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

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

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/NDSL	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/NDSL - 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

**Lanolin, Anhydrous**

*14.17.890, 0020, 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.

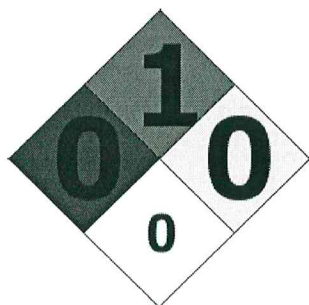
**Hazard statements:**

**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 %
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**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**

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

**Lanolin, Anhydrous**

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

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

**Lanolin, Anhydrous****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

**Lanolin, Anhydrous**

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)

**Effective date** : 02.09.2015**Last updated** : 03.19.2015

# SAFETY DATA SHEET

Snow White Pet USP



## Section 1. Identification

14-17-890, 0028, 4519, 4522

GHS product identifier : Snow White Pet USP  
Product code : PEN1720-00-C  
Chemical name : Petrolatum  
Other means of identification : Petroleum jelly; Mineral grease (petrolatum); RED PETROLATUM; Petrolatum.  
Product type : Solid.

### Relevant identified uses of the substance or mixture and uses advised against

Identified uses	
Petrochemical industry: Petroleum refining. Petrolatum.	
Uses advised against	Reason
Not available.	

Supplier's details : Calumet Specialty Products Partners, L.P.  
2780 Waterfront Pkwy E. Dr.  
Suite 200  
Indianapolis, Indiana 46214 USA  
Technical Services: 317-328-5660

Emergency telephone number (with hours of operation) : 24 hr. CHEMTREC 1-800-424-9300 / International 1-703-527-3887

## Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

### GHS label elements

Signal word : No signal word.  
Hazard statements : No known significant effects or critical hazards.

### Precautionary statements

Prevention : Not applicable.  
Response : Not applicable.  
Storage : Not applicable.  
Disposal : Not applicable.

Hazards not otherwise classified : None known.

## Section 3. Composition/information on ingredients

Substance/mixture : Substance  
 Chemical name : Petrolatum  
 Other means of identification : Petroleum jelly; Mineral grease (petrolatum); RED PETROLATUM; Petrolatum.

### CAS number/other identifiers

CAS number : 8009-03-8

Ingredient name	%	CAS number
Petrolatum	100	8009-03-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : Do not use water jet.
- Specific hazards arising from the chemical** : No specific fire or explosion hazard.
- Hazardous thermal decomposition products** : No specific data.
- Special protective actions for fire-fighters** : 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.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : 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. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- 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 and materials for containment and cleaning up

- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : 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.



## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

None.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

- 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.
- Eye/face protection** : 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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### Skin protection

- Hand protection** : 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.
- Body protection** : 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.
- Other skin protection** : Appropriate footwear and any additional skin protection measures 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 protection** : Use a properly fitted, particulate filter 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.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Solid. [Waxy solid.]
- Color** : Colorless. White.
- Odor** : Hydrocarbon.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point** : 55.2°C (131.4°F)
- Boiling point** : 359 to 732°C (678.2 to 1349.6°F)
- Flash point** : Closed cup: 259 to 277°C (498.2 to 530.6°F)  
Open cup: >200°C (>392°F) [Cleveland.]
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : <0.0013 kPa (<0.01 mm Hg) [room temperature]

## Section 9. Physical and chemical properties

Vapor density	: Not available.
Relative density	: 0.844
Solubility	: Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: 6
Auto-ignition temperature	: >290°C (>554°F)
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >0.25 cm <sup>2</sup> /s (>25 cSt)

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Petrolatum	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

#### Irritation/Corrosion

Not available.

#### Sensitization

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

**Conclusion/Summary** : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

## Section 11. Toxicological information

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
Petrolatum	Acute EC50 >100 mg/l	Algae	72 hours
	Acute EC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours

### Persistence and degradability

Not available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Petrolatum	6	-	high

### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

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

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

RCRA classification : Not Regulated

## Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: This material is listed or exempted.  
This material is listed or exempted.

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Not applicable.

#### Composition/information on ingredients

No products were found.

### State regulations

**Massachusetts** : This material is not listed.

**New York** : This material is not listed.

**New Jersey** : This material is not listed.

**Pennsylvania** : This material is not listed.

### California Prop. 65

This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### International lists

#### National inventory

**Australia** : This material is listed or exempted.

**Canada** : This material is listed or exempted.

**China** : This material is listed or exempted.

**Europe** : This material is listed or exempted.

**Japan** : This material is listed or exempted.

**Malaysia** : Not determined.

**New Zealand** : This material is listed or exempted.

**Philippines** : This material is listed or exempted.

**Republic of Korea** : This material is listed or exempted.

**Taiwan** : This material is listed or exempted.

## Section 16. Other information

### Procedure used to derive the classification

Classification	Justification
Not classified.	

### History

**Date of issue/Date of revision** : 02/19/2015

**Version** : 1

**Key to abbreviations** :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- UN = United Nations

☑ Indicates information that has changed from previously issued version.

### 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.