

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: Crown Kerosene
SDS number: CR.KE
Synonym(s): Kerosene (petroleum)

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

General use: Fuel
Uses advised against: None known

1.3 Details of the supplier and of the safety data sheet

Manufacturer/Distributor
Packaging Service Co., Inc.
1904 Mykawa Road
Pearland, TX 77581-3210 USA
1-281-485-1458

1.4 Emergency telephone number

CHEMTREC: 1-800-424-9300 (USA)
CANUTEC: 1-613-996-6666 (Canada)

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Product definition: Mixture
Classification in accordance with 29 CFR 1910 (OSHA HCS) and Regulation EC No. 1272/2008
Flammable Liquid - Category 3 [H226]
Aspiration Hazard - Category 1 [H304]
Skin Irritant - Category 2 [H315]
Single Target Organ Toxicity, Single Exposure - Category 3; STOT SE 3 [H336]
Aquatic Toxicity, Chronic - Category 2 [H411]

2.2 Label elements

Hazard symbols



Signal word:

Danger

Hazard statement(s):

H226 - Flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements:

[Prevention]

P210 - Keep away from heat, open flames and hot surfaces. No smoking.
P233 - Keep container tightly closed.
P240 - Ground and bond container and receiving equipment.
P241 + P242 - Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P261 - Avoid breathing fumes, mist or vapor.
P264 - Wash hands and exposed skin areas thoroughly after handling.
H270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.

[Response]

P280 - Wear protective gloves, protective clothing and eye protection.
P301 + P331 + P310 - IF SWALLOWED: DO NOT induce vomiting. Immediately call a POISON CENTER or doctor.
P303 + P361 + P353 - IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a comfortable position for breathing. Call a POISON CENTER or a doctor if you feel unwell.
P321 - Specific treatment: Seek medical attention, especially if you feel unwell. Refer to Section 4 of this SDS.
P332 + P313 - If skin irritation occurs: Get medical attention.
P362 - Take off contaminated clothing and wash before reuse.

[Storage]

P370 + P378 - In case of fire: Use water fog, foam, dry chemical or carbon dioxide for extinction.
P391 - Collect spillage.

[Disposal]

P405 + P403 + P233 + P235 - Store locked up in a well-ventilated place. Keep container tightly closed. Keep cool.
P501 - Dispose of contents and containers in accordance with national and local regulations.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Repeated exposure may cause skin dryness or cracking.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

% by Weight	Ingredient	CAS Number	EC Number	Annex Number	GHS Classification
100	Kerosene (Petroleum)	8008-20-6	232-366-4	649-404-00-4	H226, H304, H315, H336, H411

There are no additional ingredients present in this product 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.

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: If product mist or vapor causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. If unconscious, maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If irritation persists or if the victim feels unwell, seek medical attention.

Eyes: Immediately flush eyes with large amounts of water or saline solution for at least 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses, if present and easy to do, after first 2 minutes and continue rinsing. If irritation persists seek medical attention, preferably from an ophthalmologist.

Skin: Flush skin with large amounts of water while removing contaminated clothing. Wash the affected area with soap and water followed by thorough rinsing. Wash contaminated clothing and shoes before reuse. If irritation persists, seek medical attention.

Ingestion: Rinse mouth with water if the victim is conscious. Remove dentures if present. DO NOT induce vomiting unless directed to do so by medical personnel. Vomiting may occur spontaneously. To prevent aspiration of material into the lungs, lay the victim on one side with the head lower than the waist. Never give anything by mouth to an unconscious or convulsing person. Do not leave the victim unattended. Seek immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eyes: May cause eye irritation with redness, itching and discomfort. Vapor or mist can cause eye irritation.

Skin: Causes skin irritation with localized redness and discomfort. Repeated exposure to unprotected skin may cause reddening, itching and drying and cracking of the skin and/or dermatitis. May be harmful if absorbed through the skin.

Inhalation: Harmful if inhaled. Causes respiratory irritation with headache, sore throat, cough and shortness of breath. May cause nausea, vomiting, drowsiness and dizziness. May cause depression of the central nervous system when exposed to high concentrations. May cause central nervous system effects including incoordination, fatigue, loss of balance, unconsciousness, coma, respiratory failure and death.

Ingestion: Harmful if swallowed. Causes irritation of the digestive tract with nausea, vomiting, abdominal pain and diarrhea. Causes dizziness, drowsiness, fatigue, headache and unconsciousness. May cause central nervous system depression with effects similar to those of inhalation. This material can get into the lungs during swallowing or vomiting causing lung inflammation and chemical pneumonitis, which may be fatal. Symptoms of aspiration into the lungs include coughing, gasping, choking, shortness of breath, bluish colored skin, rapid breathing and rapid heart rate.

Chronic: Individuals with pre-existing eye, skin, kidney, cardiovascular, respiratory and central nervous system disorders may have increased susceptibility to the effects of exposure to this product. Prolonged or repeated skin contact may cause defatting of the skin, dermatitis or aggravate existing skin conditions. Chronic inhalation or ingestion can cause central nervous system depression with symptoms parallel to acute inhalation. Effects may be delayed.

4.3 Indication of any immediate medical attention and special treatment needed

Advice to doctor and hospital personnel

Administration of adsorbents such as activated charcoal may be of value. Gastric lavage may be effective when performed by a physician within 4 hours of ingestion. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishable media

Suitable methods of extinction: Use extinguishing media such as water spray or fog, carbon dioxide, foam and dry chemical.

Unsuitable methods of extinction: Water jets or streams may spread the fire. This material floats on water.

5.2 Special hazards arising from the substance or mixture

Flammable liquid and vapor! Vapors are heavier than air and can travel along the ground to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. Exposure to ignition sources (e.g cell phones) can ignite vapors, causing a flash fire. Closed containers may explode due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent or may be delayed. Obtain medical attention.

Explosion hazards: Avoid sources of ignition. Vapors may form an explosive mixture with air, especially in confined spaces. Ground and bond containers in storage and when container is in use.

5.3 Advice for firefighters

Firefighters should wear full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. Be aware that burning liquid will float on water.

Firefighters must control runoff to prevent environmental contamination. Notify appropriate authorities of potential fire and explosion hazard if liquid enters sewers or waterways.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate non-essential personnel. Wear appropriate protective clothing and equipment designated in Section 8.2. Ventilate the area. Remove all sources of ignition. NO SMOKING. Clean up spills immediately. Spills create a slip hazard.

6.2 Environmental precautions

Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers or waterways. Use water sparingly to minimize environmental contamination and reduce disposal requirements.

6.3 Methods and materials for containment and cleaning up

DO NOT FLUSH SPILL DOWN THE DRAIN. Approach spill from upwind direction. Cover drains and contain spill. Cover spill with a large quantity of inert absorbent. Do not use combustible material such as sawdust. Collect material using non-sparking tools and place into an approved container for proper disposal. Observe possible material restrictions (Sections 7.2 and 10.5). Do not allow material or runoff from rinsing contaminated areas to enter floor drains or storm drains and ditches that lead to waterways. Dispose of via a licensed waste disposal contractor. If spilled on water remove with appropriate methods (e.g. skimming, booms or absorbents).

This product contains substances classified as oil under Section 311 of the Clean Water Act (CWA) and under the Oil Pollution Act (OPA). In the USA discharges or spills of material on waters of the United States, their adjoining shorelines or into conduits leading to surface waters must be reported to the National Response Center at 800-424-8802.

6.4 Reference to other sections

For indications about waste treatment, see Section 13.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear all appropriate personal protective equipment specified in Section 8.2. Do not get in eyes or on skin or clothing. Do not inhale mist or vapor. NO SMOKING. If normal use of material presents a respiratory hazard, use only adequate ventilation or wear an appropriate respirator. Open containers slowly to control possible pressure release. Wash contaminated clothing and shoes thoroughly before reuse.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Vapors are heavier than air and can travel along the ground to a source of ignition and flash back.

7.2 Conditions for safe storage, including any incompatibilities

Store in dry, cool, well-ventilated areas away from incompatible materials (see Section 10.5), food and drink. Keep away from heat and ignition sources. Transfer only to approved containers having correct labeling. Keep containers tightly closed when not in use. Protect containers against physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Containers are hazardous when empty as they contain product residues.

Storage containers should be grounded and bonded. Do not cut, drill, weld, braze, solder grind or perform similar operations on or near empty containers. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Do not take internally. Keep out of reach of children.

7.3 Specific end uses

Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values

CAS Number	Ingredient	OSHA PEL	ACGIH TLV	NIOSH
8008-20-6	Kerosene (Petroleum)	-----	200 mg/m ³ TWA (as total hydrocarbon vapor) 8 h; Skin	100 mg/m ³ , 10 h

A "skin" notation following the inhalation exposure guideline refers to the potential for dermal absorption of the material, including eyes and mucous membranes, either by direct contact with vapors or by direct skin contact. It is intended to alert the reader that inhalation may not be the only route of exposure and that measures to minimize dermal exposure should be considered.

8.2 Exposure controls

Engineering measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to Section 7.1.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking, smoking or using the lavatory.

Eye/face protection: Wear safety glasses with unperforated side shields or protective splash goggles during use.

Hand protection: Wear Nitrile rubber or chlorinated polyethylene (CPC) gloves or gloves recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period.

Skin protection: Wear protective clothing. Wear protective boots if the situation requires.

Respiratory protection: Always use an approved respirator when vapor/aerosols exceed permissible exposure limits. Where risk assessment

shows air-purifying respirators are appropriate use a half-mask respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respiratory and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Environmental exposure controls: Do not empty into drains.

PPE must not be considered a long-term solution to exposure control. PPE usage must be accompanied by employer programs to properly select, maintain, clean fit and use. Consult a competent industrial hygiene resource to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.



SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear, colorless liquid
Odor	Hydrocarbon, characteristic
Odor Threshold	No data available
Molecular Weight	Not applicable
Chemical Formula	Not applicable
pH	No data available
Freezing/Melting Point	-50.2 °C (-58.4 °F)
Boiling Point Range	68.9 - 124.4 °C (156 - 256 °F)
Evaporation Rate	No data available
Flammability (solid, gas)	Not applicable
Flash Point	45.6 °C (114 °F), closed cup
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Lower Explosive Limit (LEL)	No data available
Upper Explosive Limit (UEL)	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Specific Gravity	0.783
Density	0.783 g/ml (6.53 lb/gal)
Viscosity	1.19 cSt @ 40 °C
Solubility in Water	Negligible
Partition Coefficient: n-octanol/water	log Pow = >4
Oxidizing Properties	Not applicable
Explosive Properties	Not applicable
Volatiles by Weight @ 21 °C	100%

9.2 Other data

Flammability Classification	II
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SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

This material is stable under normal handling conditions and use.

10.2 Chemical stability

This product is stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Vapors may form an explosive mixture with air.

Hazardous polymerization will not occur.

10.4 Conditions to avoid

High temperatures, sources of ignition, hot surfaces, contact with incompatible materials

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Thermal decomposition products include oxides of carbon, hydrocarbons, toxic fumes and smoke.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity

LD₅₀, rat - 15 g/kg

Acute inhalation toxicity

LC50, rat - >5.28 mg/l, 4h

Acute dermal toxicity

LD₅₀, rabbit - >2,000 mg/kg

Skin irritation

Causes skin irritation.

Eye irritation

May cause eye irritation.

Sensitization

No data available

Genotoxicity in vitro

No data available

Mutagenicity

No data available

Specific organ toxicity - single exposure

May cause drowsiness or dizziness. May cause respiratory irritation.

Specific organ toxicity - repeated exposure

No data available

Aspiration hazard

May be fatal if swallowed and enters the airways.

11.2 Further information

No component of this product present at levels greater than or equal to the 0.1% threshold (de minimis) is identified as a probable, possible, potential or confirmed carcinogen by IARC, ACGIH, NTP or OSHA. No data is available regarding the mutagenicity or teratogenicity of this product, nor is there any available data that indicated that it caused adverse developmental or fertility effects.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12 - ECOLOGICAL INFORMATION**12.1 Toxicity**

This product is toxic to aquatic life with long lasting effects in the environment. The discharge of small or large quantities of this product to the environment should be avoided.

Toxicity to fish:	LC ₅₀ - Fish (species unspecified), 96 h: 1 - 20 mg/l
Toxicity to aquatic invertebrates:	EC ₅₀ - Daphnia magna (Water flea), 48 h: 1 - 20 mg/l
Toxicity to aquatic plants:	EC ₅₀ - Algae, 72 h: 1 - 20 mg/l

12.2 Persistence and degradability

Kerosene is inherently biodegradable.

12.3 Bioaccumulation potential

Kerosene has the potential to bioaccumulate.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects**Additional ecological information**

Do not allow material to run into surface waters, wastewater or soil.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 - DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

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

RCRA F-Series: No listings above the reportable threshold (de minimis)

RCRA D-Series: D001 - ignitable waste

RCRA U-Series: No listings above the reportable threshold (de minimis)

SECTION 14 - TRANSPORT INFORMATION

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

This product may be classified as "Combustible Liquid" unless transported by vessel or aircraft. Non-bulk packages (maximum capacity ≤450 liters (119 gallons)) of combustible liquids that are marine pollutants are not regulated as hazardous materials unless transported by vessel.

USA DOT (Ground Transportation) - Bulk

The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 liters or ≤5 kg or by road, rail or inland air in non-bulk sizes.

Proper Shipping Name:	Kerosene
Hazard Class:	3
UN/NA:	UN1223
Packing Group:	III

NAERG: Guide #128
Packaging Authorization: Non-Bulk: 49 CFR 173.203; Bulk: 173.242
Packaging Exceptions: 49 CFR 173.150
Consumer Products: Limited quantity for transport when inner packagings are ≤5.0 l (1.3 gal) net capacity each, packed in a strong outer packaging

IMO/IMDG (Water Transportation)

The marine pollutant mark is not required when transported in sizes of ≤5.0 liters (1.3 gal) or ≤5 kg (11.02 lb).

Drum Label(s)



Proper Shipping Name: Kerosene
Hazard Class: 3
UN/NA: UN1223
Packing Group: III
Marine Pollutant: Yes
EMS Number: F-E, S-E

ICAO/IATA (Air Transportation)

The environmentally hazardous mark may appear if required by other transportation regulations.

Proper Shipping Name: Kerosene
Hazard Class: 3
UN/NA: UN1223
Packing Group: III
Quantity Limitations: 49 CFR 175.27 and 175.75 - Cargo Aircraft Only: 220 l; Passenger Aircraft: 60 l

RID/ADR (Rail Transportation)

Proper Shipping Name: Kerosene
Hazard Class: 3
UN/NA: UN1223
Packing Group: III

SECTION 15 - REGULATORY INFORMATION

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

U. S. Federal Regulations

OSHA Hazard Communication Standard: This material is classified as hazardous in accordance with OSHA 29 CFR 1910-1200.

OSHA Process Safety Management Standard: This product is not regulated under OSHA PSM Standard 29 CFR 1910.119.

EPA Risk Management Planning Standard: This product is not regulated under EPA RMP Standard (RMP) 40 CFR Part 68.

EPA Federal Insecticide, Fungicide and Rodenticide Act: This product is not a registered Pesticide under the FIFRA, 40 CFR Part 150.

Toxic Substance Control Act (TSCA) Inventory: All of the substances in this product are listed on the TSCA Inventory. This product is not subject to TSCA 12(b) Export Notification.

Drug Enforcement Administration (DEA) List 2, Essential Chemicals (21 CFR 1310.02(b)) and 1310.4(f)(2)) and Chemical Code Number
No listing No listing

Drug Enforcement Administration (DEA) Lists 1 & 2, Exempt Chemical Mixtures (21 CFR 1310.12(c)) and Code Number:

Department of Homeland Security (DHS) Chemical Facility Anti-Terrorism Standards (CFATS) Chemicals: No listing

Superfund Amendments and Reauthorization Act (SARA)

SARA Section 311/312 Hazard Categories: Fire Hazard, Acute Health Hazard

SARA 313 Information: None of the components of this product are subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986.

SARA 302/304 Extremely Hazardous Substance: None of the components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification: None of the components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): This product contains no CERCLA reportable substances.

Clean Air Act (CAA)

This product does not contain any Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).

This product does not contain any Class 1 Ozone depletors.

This product does not contain any Class 2 Ozone depletors.

Clean Water Act (CWA)

This product does not contain any Hazardous Substances under the CWA.

This product does not contain any Priority Pollutants under the CWA.

This product does not contain any Toxic Pollutants under the CWA.

Kerosene is classified as an oil under Section 311 of the CWA and the Oil Pollution Act (OPA) of 1990.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

Combustion products emitted when this product is burning may contain substances known to the state of California to cause cancer, birth defects or other reproductive harm.

Other U.S. State Inventories

Kerosene (CAS #8008-20-6) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: MN, NJ, NY, PA, RI.

Canada

WHMIS Hazard Classification

Flammable liquid and vapor

Causes skin irritation

May be fatal if swallowed and enters airways

Suspected or causing cancer

Canadian National Pollutant Release Inventory (NPRI): None of the components of this material are listed on the NPRI.

European Economic Community

WGK, Germany (Water danger/protection): No data available

Global Chemical Inventory Lists

Country	Inventory Name	Inventory Listing*
Canada	Domestic Substance List (DSL)	Yes
Canada	Non-Domestic Substance List (NDSL)	No
Europe	Inventory of New and Existing Chemicals (EINECS)	Yes
United States	Toxic Substance Control Act (TSCA)	Yes
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
New Zealand	New Zealand Inventory of Chemicals (NZIoC)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (KECL)	Yes
Philippines	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Yes

*Yes - All components of this product are in compliance with the inventory requirements administered by the governing country.

No - One or more components of this product are not on the inventory or are exempt from listing.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16 - OTHER INFORMATION

Hazardous Material Information System (HMIS)

Health	2
Flammability	2
Physical Hazard	0
Personal Protection	C

C = safety glasses, gloves and an apron

HMIS Hazard Rating Legend

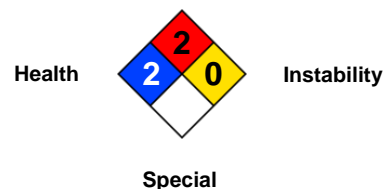
0 = Minimal 1 = Slight 2 = Moderate 3 = Serious
4 = Severe * = Chronic Health Hazard

NFPA Hazard Rating Legend

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

National Fire Protection Association (NFPA)

Flammability



Abbreviation Key

ACGIH	American Conference of Governmental Industrial Hygienists	mppcf	Millions of Particles Per Cubic Foot
ADR	Accord Dangereux Routier (European regulations concerning the international transport of dangerous by road)	NA	North America
CAS	Chemical Abstract Services	NAERG	North American Emergency Response Guide Book
CFR	Code of Federal Regulations	NIOSH	National Institute for Occupational Safety
DOT	Department of Transportation	NTP	National Toxicology Program
EMS Guide	Emergency Response Procedures for Ships Carrying Dangerous Goods	OSHA	Occupational Safety and Health Administration
EPA	Environmental Protection Agency	PBT	Persistent, Bioaccumulating and Toxic
ERG	Emergency Response Guide Book	PEL	Permissible Exposure Limit
FDA	Food and Drug Administration	PMCC	Pensky-Martens Closed Cup
GHS	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)	ppm	Parts Per Million
HCS	Hazard Communication Standard	RCRA	Resource Conservation and Recovery Act
IARC	International Agency for Research on Cancer	RID	Dangerous Goods by Rail
IATA	International Air Transport Association	RQ	Reportable Quantity
ICAO	International Civil Aviation Organization	TCC/Tag	Tagliabue Closed Cup
IDLH	Immediately Dangerous to Life and Health	TLV	Threshold Limit Value
IMDG	International Maritime Dangerous Goods	TSCA	Toxic Substance Control Act
IMO	International Maritime Organization	TWA	Time-Weighted Average
		UN	United Nations
		VOC	Volatile Organic Compounds
		vPvB	Very Persistent and Very Bioaccumulating
		WHMIS	Workplace Hazardous Materials Information System

DISCLAIMER OF RESPONSIBILITY

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume damage or expense arising out of or in any way responsibility and expressly disclaim liability for loss, connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

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