

**SAFETY DATA SHEET**

**SECTION 1. IDENTIFICATION**

**Product identifier used on the label**

: **WHITE LITHIUM GREASE**

**Product Code(s)** : L616C, L616/6C

**Recommended use of the chemical and restrictions on use**

: Lubricant (aerosol).  
Restrictions on use: Not available.

**Chemical family** : Mixture of: Hydrocarbons; Propellant; Inorganic metal compounds; Lithium compound

**Name, address, and telephone number of the supplier:**

**Radiator Specialty Co., of Canada**

3-3055 Dundas St West, Suite 50  
Mississauga, ON, Canada  
L5L 3R8

Supplier's Telephone # : (905) 625-9117 ( Mon.- Fri., 8 am - 4 pm)

**24 Hr. Emergency Tel #** : Not available.

**Name, address, and telephone number of the manufacturer:**

Refer to supplier

**SECTION 2. HAZARDS IDENTIFICATION**

**Classification of the chemical**

Clear, off-white liquid contained in pressurized aerosol can. Hydrocarbon odour.

*Most important hazards:*

Extremely flammable aerosol. May be ignited by open flames and sparks. Contents under pressure. Container may explode if heated.

Aspiration hazard. Can enter the lungs and cause damage. Irritating to skin. Inhalation may cause central nervous system depression. Possible cancer hazard - contains material which may cause cancer. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

Very toxic to aquatic life with long lasting effects. Avoid release to the environment. See Section 12 for more environmental information.

***This product is packaged and sold as a consumer product. The Hazardous Products Act (HPA) does not apply to consumer products [Hazardous Products Act Section 12(j)]. The below WHMIS 2015 classification and labeling information is being provided for informational purposes.***

This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).  
Classification:

- Flammable aerosol - Category 1
- Gases under pressure - Liquefied gas
- Skin corrosion/irritation - Category 2
- Carcinogenicity - Category 2
- Specific target organ toxicity, single exposure - Category 3 (Narcotic effects)
- Aspiration toxicity - Category 1

**Label elements**

*Hazard pictogram(s)*



*Signal Word*

DANGER!

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*Hazard statement(s)*

Extremely flammable aerosol.  
 Contains gas under pressure; may explode if heated.  
 May be fatal if swallowed and enters airways.  
 Causes skin irritation.  
 May cause drowsiness or dizziness.  
 Suspected of causing cancer.

*Precautionary statement(s)*

Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking.  
 Do not spray on an open flame or other ignition source.  
 Do not pierce or burn, even after use.  
 Avoid breathing mist or vapours.  
 Wash exposed skin thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves/clothing and eye/face protection.

IF exposed or concerned: Get medical advice/attention.  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.  
 IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash it before reuse.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up.  
 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Dispose of contents/container in accordance with local regulation.

**Other hazards**

*Other hazards which do not result in classification:*  
 Toxic fumes may be released during a fire. Mild respiratory irritant. Direct eye contact may cause slight or mild, transient irritation. May cause gastrointestinal irritation. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Heptane, branched, cyclic and linear	Heptanes (mixture)	426260-76-6	10.0 - 30.0
Distillates (petroleum), hydrotreated heavy naphthenic	Mineral oil	64742-52-5	10.0 - 30.0
Propane	Dimethylmethane Propyl hydride	74-98-6	5.0 - 13.0
n-Butane	Butyl hydride Methylethylethane	106-97-8	5.0 - 13.0
Zinc oxide	Zinc monoxide	1314-13-2	0.1 - 1.0
titanium dioxide	Anatase Titanic acid anhydride	13463-67-7	0.1 - 1.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

**SECTION 4. FIRST-AID MEASURES**

**Description of first aid measures**

*Ingestion* : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.

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- Inhalation* : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stops, provide artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.
- Skin contact* : 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 re-use.
- Eye contact* : Rinse immediately with plenty of water, also under the eyelids. If irritation or symptoms develop, seek medical attention.

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

- : May be fatal if swallowed and enters airways. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.
- Causes skin irritation. Contact may cause redness, swelling and a painful sensation.
- Inhalation may cause headache, nausea and central nervous effects such as dizziness, coordination difficulties and unconsciousness.
- Suspected of causing cancer. Symptoms may include persistent coughing, shortness of breath, coughing up blood and wheezing.
- Mild respiratory irritant. May cause coughing and breathing difficulties.
- Direct eye contact may cause slight or mild, transient irritation. Direct eye contact may cause slight redness.
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

### Indication of any immediate medical attention and special treatment needed

- : Immediate medical attention is required. Aspiration hazard if swallowed - can enter lungs and cause damage.
- Provide general supportive measures and treat symptomatically.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing media

#### *Suitable extinguishing media*

- : Dry chemical, foam, carbon dioxide and water fog.

#### *Unsuitable extinguishing media*

- : Do not use a solid water stream as it may scatter and spread the fire.

### Special hazards arising from the substance or mixture / Conditions of flammability

- : Extremely flammable aerosol. May be ignited by open flames and sparks. This product is contained under pressure, and could explode when exposed to heat and flame. Vapours are heavier than air and collect in confined and low-lying areas. Material will float on water and can be re-ignited at the water's surface.

### Hazardous combustion products

- : Carbon oxides; Phosphorus oxides; Sulphur oxides; Nitrogen oxides; Polycyclic aromatic hydrocarbons; Other unidentified organic compounds.

### Special protective equipment and precautions for firefighters

#### *Protective equipment for fire-fighters*

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

#### *Special fire-fighting procedures*

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Water spray may be useful in cooling equipment exposed to heat and flame. Shield personnel to protect from venting or rupturing containers. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

- : Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Wear appropriate personal protective equipment. Refer to protective measures listed in sections 7 and 8.

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**Environmental precautions** : Prevent product from entering drains, sewers, waterways and soil. Avoid release to the environment.

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

- : Ventilate area of release. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools and equipment in the clean-up process. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Do not use combustible absorbents, such as sawdust. Keep in properly labelled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

### SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling**

- : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.  
Use only outdoors or in a well-ventilated area. Wear suitable protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact with incompatible materials. Always replace cap after use. Wash thoroughly after handling.

**Conditions for safe storage**

- : Store in a cool, dry, well-ventilated area. Store locked up. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area. Keep away from incompatibles.

**Incompatible materials**

- : Strong oxidizing agents; Halogenated compounds; Strong acids

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Heptane, branched, cyclic and linear	400 ppm (as 'n-Heptane')	500 ppm (as 'n-Heptane')	500 ppm (2000 mg/m <sup>3</sup> ) (as 'n-Heptane')	N/Av
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m <sup>3</sup> (As 'Oil mist, mineral') (inhalable)	N/Av	5 mg/m <sup>3</sup> (As 'Oil mist, mineral')	N/Av
Propane	N/Av	N/Av	1000 ppm (1800 mg/m <sup>3</sup> )	N/Av
n-Butane	1000 ppm (Butane, all isomers)	N/Av	800 ppm (final rule limit)	N/Av
Zinc oxide	2 mg/m <sup>3</sup> (respirable)	10 mg/m <sup>3</sup> (respirable)	5 mg/m <sup>3</sup> (fume); 15 mg/m <sup>3</sup> (total dust); 5 mg/m <sup>3</sup> (respirable)	N/Av
titanium dioxide	10 mg/m <sup>3</sup>	N/Av	15 mg/m <sup>3</sup> (total dust)	N/Av

**Exposure controls**

**Ventilation and engineering measures**

- : Use only outdoors or in a well-ventilated area. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

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- Respiratory protection** : If airbourne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with CSA Z94.4-02. Advice should be sought from respiratory protection specialists.
- Skin protection** : Wear protective gloves/clothing. Wear as appropriate: Nitrile rubber; Butyl rubber. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Wear resistant clothing and boots. Depending on conditions of use, an impervious apron should be worn.
- Eye / face protection** : Wear eye/face protection. Wear as appropriate: Tightly fitting safety goggles; Safety glasses with side shields. A full face shield may also be necessary.
- Other protective equipment** : An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.
- General hygiene considerations** : Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Clear, off-white liquid contained in pressurized aerosol can.
- Odour** : Hydrocarbon odour.
- Odour threshold** : N/Av
- pH** : N/Av
- Melting/Freezing point** : Melting point: N/Av  
Freezing point: N/Av
- Initial boiling point and boiling range** : N/Av
- Flash point** : - 104.4°C (- 156°F) (propellant)
- Flashpoint (Method)** : N/Av
- Evaporation rate (BuAe = 1)** : N/Av
- Flammability (solid, gas)** : Not applicable.
- Lower flammable limit (% by vol.)** : 2.1 (propellant)
- Upper flammable limit (% by vol.)** : 9.5 (propellant)
- Oxidizing properties** : No oxidizing properties.
- Explosive properties** : Aerosols are sensitive to mechanical impact. Closed containers are contained under pressure and may explode if exposed to excess heat for a prolonged period of time.
- Vapour pressure** : 950 kPa (propellant)
- Vapour density** : 1.56 @ 0°C (32°F) (propellant) (Air = 1.0)
- Relative density / Specific gravity** : Relative density: N/Av  
Specific Gravity: N/Av
- Solubility in water** : slightly soluble
- Other solubility(ies)** : N/Av
- Partition coefficient: n-octanol/water or Coefficient of water/oil distribution** : N/Av
- Auto-ignition temperature** : 450°C (842°F) (propellant)
- Decomposition temperature** : N/Av
- Viscosity** : < 20.5 cSt @ 40°C (104°F)
- Volatiles (% by weight)** : N/Av
- Volatile organic Compounds (VOC's)** : N/Av
- Absolute pressure of container** : N/Av
- Flame projection length** : 72 - 80 cm (28.3 - 31.5")
- Other physical/chemical comments** : Flashback Observed: NO  
Chemical heat of combustion: N/Av

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### SECTION 10. STABILITY AND REACTIVITY

- Reactivity** : Not normally reactive.
- Chemical stability** : Stable under the recommended storage and handling conditions prescribed.
- Possibility of hazardous reactions** : Hazardous polymerization does not occur. No dangerous reaction known under conditions of normal use.
- Conditions to avoid** : Avoid heat and open flame. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.
- Incompatible materials** : Strong oxidizing agents; Halogenated compounds; Strong acids
- Hazardous decomposition products** : Not available.  
Refer also to hazardous combustion products, Section 5.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure:

- Routes of entry inhalation** : YES
- Routes of entry skin & eye** : YES
- Routes of entry Ingestion** : YES
- Routes of exposure skin absorption** : NO

#### Potential Health Effects:

##### Signs and symptoms of short-term (acute) exposure

###### *Sign and symptoms Inhalation*

- : Mild respiratory irritant. May cause coughing and breathing difficulties. Inhalation may cause headache, nausea and central nervous effects such as dizziness, coordination difficulties and unconsciousness. In extremely high concentrations, product may act as an asphyxiant and cause increased breathing and pulse rates, fatigue and unconsciousness.

###### *Sign and symptoms ingestion*

- : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be fatal if swallowed and enters airways. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. .

###### *Sign and symptoms skin*

- : May cause moderate to severe skin irritation. Contact may cause redness, swelling and a painful sensation. If product is sprayed directly on skin, symptoms of frostbite may be experienced including numbness, prickling and itching.

###### *Sign and symptoms eyes*

- : Direct eye contact may cause slight or mild, transient irritation. Direct eye contact may cause slight redness. Symptoms may include stinging and tearing. Spraying the product directly into the eyes may cause freezing, and could cause eye damage.

##### Potential Chronic Health Effects

- : Prolonged or repeated skin exposure may cause redness, a burning sensation, drying and cracking of the skin (dermatitis).

##### Mutagenicity

- : No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

##### Carcinogenicity

- : This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Carcinogenicity - Category 2. Suspected of causing cancer. Symptoms may include persistent coughing, shortness of breath, coughing up blood and wheezing. Contains Titanium dioxide. Titanium dioxide is classified as possibly carcinogenic by IARC (Group 2B).

##### Reproductive effects & Teratogenicity

- : This product is not expected to cause reproductive or developmental effects.

##### Sensitization to material

- : Not expected to be a skin or respiratory sensitizer.

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**Specific target organ effects** : This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Specific target organ toxicity, single exposure - Category 3. May cause drowsiness or dizziness.

According to the classification criteria of Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015), this product is not expected to cause specific target organ toxicity (STOT) through repeated exposures.

**Medical conditions aggravated by overexposure**

: Pre-existing skin, eye, respiratory and central nervous system disorders.

**Synergistic materials**

: None known or reported by the manufacturer.

**Toxicological data**

: Not classified for acute toxicity based on available data. No data is available on the product itself.

See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC<sub>50</sub> (4hr)</u> <u>inh, rat</u>	<u>LD<sub>50</sub></u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Heptane, branched, cyclic and linear	25,000 ppm (102.5 mg/L) (vapour) (Read-across)	> 15,000 mg/kg (Read-across)	> 2000 mg/kg (No mortality) (Read-across)
Distillates (petroleum), hydrotreated heavy naphthenic	> 5 mg/L (mist)	> 5000 mg/kg	> 2000 mg/kg (No mortality)
Propane	N/Av	N/Ap (gas)	N/Ap (gas)
n-Butane	276 000 ppm	N/Ap (gas)	N/Ap (gas)
Zinc oxide	> 5.7 mg/L (dust) (No mortality)	> 5000 mg/kg	> 2000 mg/kg (No mortality)
titanium dioxide	> 6.82 mg/kg (dust) (No mortality)	> 25 000 mg/kg	> 10 000 mg/kg

**Other important toxicological hazards**

: Reports have associated repeated and prolonged occupational overexposure to various organic solvents with internal organ, brain and nervous system damage.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

: Very toxic to aquatic life with long lasting effects. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. The product contains the following substances which are hazardous for the environment: Heptanes; Zinc oxide.  
See the following tables for individual ingredient ecotoxicity data. .

**Ecotoxicity data:**

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC<sub>50</sub> / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Heptane, branched, cyclic and linear	426260-76-6	5.738 mg/L (Rainbow trout) (QSAR) (Read-across)	1.284 mg/L/28-day (QSAR) (Read-across)	None.
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	> 100 mg/L (Fathead minnow)	N/Av	None.
Propane	74-98-6	N/Ap	N/Ap	N/Ap
n-Butane	106-97-8	N/Ap	N/Ap	N/Ap
Zinc oxide	1314-13-2	1.1 mg/L (Rainbow trout)	N/Av	None.
titanium dioxide	13463-67-7	> 100 mg/L (Japanese ricefish)	N/Av	None.

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<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Heptane, branched, cyclic and linear	426260-76-6	0.2 mg/L Chaetogammarus marinus (Water flea) (Read-across)	0.06 - 0.23 mg/L (Daphnia magna) (Read-across)	1
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	> 10 000 mg/L (Daphnia magna)	10 mg/L	None.
Propane	74-98-6	N/Ap	N/Ap	N/Ap
n-Butane	106-97-8	N/Ap	N/Ap	N/Ap
Zinc oxide	1314-13-2	0.098 mg/L (Daphnia magna)	N/Av	10
titanium dioxide	13463-67-7	> 100 mg/L (Daphnia magna)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Heptane, branched, cyclic and linear	426260-76-6	4.338 mg/L/72hr (QSAR) (Green algae) (Read-across)	0.97 mg/L/72hr (QSAR) (Read-across)	None.
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	> 1000 mg/L/96hr (Green algae)	≥ 100 mg/L/72hr	None.
Propane	74-98-6	N/Ap	N/Ap	N/Ap
n-Butane	106-97-8	N/Ap	N/Ap	N/Ap
Zinc oxide	1314-13-2	0.044 mg/L/72hr (Green algae)	N/Av	10
titanium dioxide	13463-67-7	> 100 mg/L/72hr (Green algae)	N/Av	None.

**Persistence and degradability**

- : The product itself has not been tested.
- The following ingredients are considered to be readily biodegradable: Heptanes.
- Contains the following chemicals which are considered to be inherently biodegradable: Distillates (petroleum), hydrotreated heavy naphthenic.
- Contains the following chemicals which are not readily biodegradable: Zinc oxide; titanium dioxide.

**Bioaccumulation potential**

- : The product itself has not been tested. See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Heptane, branched, cyclic and linear (CAS 426260-76-6)	4.66 (Read-across)	2000 (Read-across)
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	3.9 - 6 (calculated)	N/Av
n-Butane (CAS 106-97-8)	2.89 (estimated)	33 (estimated)
Zinc oxide (CAS 1314-13-2)	1.53 (estimated)	N/Av

**Mobility in soil**

- : The product itself has not been tested.

**Other Adverse Environmental effects**

- : No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.




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**SECTION 13. DISPOSAL CONSIDERATIONS**

- Handling for Disposal** : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. This material and its container must be disposed of in a safe way.  
Empty containers retain residue and can be dangerous. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
- Methods of Disposal** : Dispose of in accordance with federal, provincial and local hazardous waste laws.

**SECTION 14. TRANSPORT INFORMATION**

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	UN1950	AEROSOLS	2.1	None	
<b>TDG Additional information</b>	May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass. Under the TDG, refer to Section 1.17 for additional exemption requirements, if shipping under this exemption.				

- Special precautions for user** : Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame. - No smoking.
- Environmental hazards** : This product meets the criteria for an environmentally hazardous material according to the IMDG Code. See Section 12 for more environmental information.
- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
: Not applicable.

**SECTION 15 - REGULATORY INFORMATION**

**Canadian Information:**

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian National Pollutant Release Inventory (NPRI): This product contains the following substances listed on the NPRI: Propane (Part 5: Individual Substances)

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

**US Federal Information:**

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

**International Information:**

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
Heptane, branched, cyclic and linear	426260-76-6	610-052-1	Not specifically listed.	Present	Not specifically listed.	2015-3-6412	Not specifically listed.	Not specifically listed.
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	265-155-0	Present	Present	(9)-1689	KE-12543	Present	May be used as a single component chemical under an appropriate group standard.
Propane	74-98-6	200-827-9	Present	Present	(2)-3	KE-29258	Present	HSR001010
n-Butane	106-97-8	203-448-7	Present	Present	(2)-4	KE-03751	Present	HSR000989

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Zinc oxide	1314-13-2	215-222-5	Present	Present	(1)-561	KE-35565	Present	HSR003104
titanium dioxide	13463-67-7	236-675-5	Present	Present	(5)-5225; (1)-558	KE-33900	Present	May be used as a single component chemical under an appropriate group standard.

**SECTION 16. OTHER INFORMATION**

**Legend**

- : ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- CAS: Chemical Abstract Services
- CSA: Canadian Standards Association
- EC50: Effective Concentration 50%
- EINECS: European Inventory of Existing Commercial chemical Substances
- ENCS: Existing and New Chemical Substances
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- IBC: Intermediate Bulk Container
- IECSC: Inventory of Existing Chemical Substances
- IMDG: International Maritime Dangerous Goods
- Inh: Inhalation
- IOC: Inventory of Chemicals
- KECI: Korean Existing Chemicals Inventory
- KECL: Korean Existing Chemicals List
- LC: Lethal Concentration
- LD: Lethal Dose
- N/Ap: Not Applicable
- N/Av: Not Available
- NIOSH: National Institute of Occupational Safety and Health
- NOEC: No observable effect concentration
- OECD: Organisation for Economic Co-operation and Development
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible exposure limit
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- RTECS: Registry of Toxic Effects of Chemical Substances
- SCBA: Self-Contained Breathing Apparatus
- SDS: Safety Data Sheet
- STEL: Short Term Exposure Limit
- TDG: Canadian Transportation of Dangerous Goods Act & Regulations
- TLV: Threshold Limit Values
- TWA: Time Weighted Average
- WHMIS: Workplace Hazardous Materials Identification System

**References**

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2018.
- 2. International Agency for Research on Cancer Monographs, searched 2019.
- 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2019 (Chempendium, HSDB and RTECs).
- 4. Material Safety Data Sheets from manufacturer.
- 5. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2019.

**Preparation Date (mm/dd/yyyy)**

: 03/12/2019

**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

**SAFETY DATA SHEET**

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