## SAFETY DATA SHEET



### Lucas Supercoolant

### Section 1. Identification

GHS product identifier : Lucas Supercoolant

Other means of identification

: Not available.

Product number : 10640

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

Coolant additive.

Supplier's details : Lucas Oil Products, Inc

### Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture

: SKIN CORROSION/IRRITATION - Category 1B

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

SKIN SENSITIZATION - Category 1
AQUATIC HAZARD (ACUTE) - Category 1
AQUATIC HAZARD (LONG-TERM) - Category 3

**GHS** label elements

Hazard pictograms :







Signal word : Danger

Hazard statements : Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Very toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

Precautionary statements

General: Read label before use. Keep out of reach of children. If medical advice is needed,

have product container or label at hand.

### Section 2. Hazards identification

Prevention

Wear protective gloves. Wear eye or face protection. Wear protective clothing. Avoid release to the environment. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Response

Collect spillage. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Storage

Store locked up.

Disposal

Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Supplemental label elements

Do not taste or swallow. Wash thoroughly after handling.

Hazards not otherwise classified

: Causes severe digestive tract burns.

### Section 3. Composition/information on ingredients

Substance/mixture Other means of

identification

Not available.

Mixture

#### CAS number/other identifiers

CAS number : Not applicable. Product code : Not available.

Ingredient name	%	CAS number
Sodium hydroxide Sodium nitrite Disodium tetraborate, anhydrous Sodium benzothiazol-2-yl sulphide	1 - 5 1 - 5 1 - 5 0.1 - 1	1310-73-2 7632-00-0 1330-43-4 2492-26-4

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

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.



### Section 4. First aid measures

Inhalation

Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

### Potential acute health effects

Eye contact Causes serious eye damage.

Inhalation May give off gas, vapor or dust that is very irritating or corrosive to the respiratory

system. Exposure to decomposition products may cause a health hazard. Serious

effects may be delayed following exposure.

Skin contact : Causes severe burns. May cause an allergic skin reaction.

Ingestion Severely corrosive to the digestive tract. Causes severe burns. May cause burns to

mouth, throat and stomach.

### Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

> pain watering redness

Inhalation No known significant effects or critical hazards. Skin contact

Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion Adverse symptoms may include the following:

stomach pains

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

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. Notes to physician

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.



### Section 4. First aid measures

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing

g

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

media

: Straight streams of water.

Specific hazards arising from the chemical

This material is very toxic to aquatic life. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides

Sulfur oxides metal oxide/oxides

Special protective actions for fire-fighters

: No special measures are required.

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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialized 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and materials for containment and cleaning up



### Section 6. Accidental release measures

#### Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

# 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. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.

# 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. Store locked up. 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

Ingredient name	Exposure limits
Sodium hydroxide	ACGIH TLV (United States, 3/2012). C: 2 mg/m³ NIOSH REL (United States, 1/2013). CEIL: 2 mg/m³ OSHA PEL (United States, 6/2010). TWA: 2 mg/m³ 8 hours. OSHA PEL 1989 (United States, 3/1989). CEIL: 2 mg/m³
Disodium tetraborate, anhydrous	ACGIH TLV (United States, 3/2012).  STEL: 6 mg/m³ 15 minutes. Form: Inhalable fraction TWA: 2 mg/m³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 6/2009).  TWA: 1 mg/m³ 10 hours.  OSHA PEL 1989 (United States, 3/1989). TWA: 10 mg/m³ 8 hours.

### Section 8. Exposure controls/personal protection

# Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

# Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

#### 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. Contaminated work clothing should not be allowed out of the workplace. 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: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

#### 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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, air-purifying or supplied air 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 : Liquid.
Color : Clear.

Odor : No distinguishable odor.

Odor threshold : Not available.

pH : 10.8

Melting point : Not available.

Boiling point : >100°C (>212°F)

Flash point : Not available.

Burning time : Not applicable.

Burning rate : Not applicable.



### Section 9. Physical and chemical properties

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available.
Vapor density : Not available.

Relative density : 1.065

Solubility : Easily soluble in the following materials: cold water and hot water.

Solubility in water : Not available.

Partition coefficient: n- : Not available.

octanol/water

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

SADT : Not available.

Viscosity : Not available.

### 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 : Excessive heat.

Incompatible materials : Strong acid solutions and Ammonium Compounds.

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
,,	LD50 Oral LD50 Oral LD50 Dermal LD50 Oral	Rat Rabbit	85 mg/kg 1200 mg/kg >5010 mg/kg 5200 mg/kg	-

Irritation/Corrosion



### Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Sodium hydroxide  Sodium nitrite	Eyes - Severe irritant Eyes - Mild irritant Eyes - Severe irritant Eyes - Severe irritant Eyes - Severe irritant Eyes - Severe irritant Skin - Mild irritant Skin - Severe irritant Eyes - Mild irritant	Monkey Rabbit Rabbit Rabbit Rabbit Human Rabbit Rabbit		24 hours 1% 400 µg 24 hours 50 µg 1% 0.5 minutes 1 mg 24 hours 2% 24 hours 500 mg 24 hours 500 mg	- - - - - -

### **Sensitization**

Skin : There is no data available.

Respiratory : There is no data available.

#### **Mutagenicity**

There is no data available.

#### Carcinogenicity

There is no data available.

### Reproductive toxicity

There is no data available.

#### **Teratogenicity**

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available. Specific target organ

toxicity (repeated exposure) There is no data

available.

### **Aspiration hazard**

There is no data available.

### Information on the likely

routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

### Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory

system. Exposure to decomposition products may cause a health hazard. Serious

effects may be delayed following exposure.

Skin contact : Causes severe burns. May cause an allergic skin reaction.

Ingestion : Severely corrosive to the digestive tract. Causes severe burns. May cause burns to

mouth, throat and stomach.

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

Eye contact : Adverse symptoms may include the following:

pain watering redness

Inhalation : No known significant effects or critical hazards.

Skin contact : Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur



### Section 11. Toxicological information

Ingestion : Adverse symptoms may include the following:

stomach pains

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

Short term exposure

Potential immediate

effects

: No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate

: No known significant effects or critical hazards.

effects

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

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

Route	ATE value
Oral	4250 mg/kg

### Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Sodium hydroxide	Acute EC50 40.38 mg/L Fresh water	Crustaceans - Ceriodaphnia dubia -	48 hours
		Neonate	
	Acute LC50 125 ppm Fresh water Acute	Fish - Gambusia affinis - Adult	96 hours
Sodium nitrite	EC50 159000 µg/I Marine water Acute	Algae - Tetraselmis chuii	72 hours
	EC50 1600000 µg/l Marine water Acute	Algae - Tetraselmis chuii	96 hours
	LC50 1100 μg/l Fresh water Acute	Crustaceans - Cherax quadricarinatus	48 hours
	LC50 48 μg/l Fresh water	Fish - Ictalurus punctatus - Fingerling	96 hours
	Chronic NOEC 0.912 mg/L Marine water	Fish - Hippocampus abdominalis -	35 days
		Juvenile (Fledgling, Hatchling, Weanling)	
Disodium tetraborate, anhydrous	Acute EC50 15.4 mg/L Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute LC50 141000 to 159000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 3600 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
Sodium benzothiazol-2-yl sulphide	Acute EC50 0.4 mg/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 0.3 mg/L Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 2.9 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.73 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

#### Persistence and degradability



### Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Sodium nitrite	-	-	Readily

#### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Sodium nitrite Disodium tetraborate, anhydrous Sodium benzothiazol-2-yl sulphide	-3.7	-	low
	-1.53	-	low
	-0.48	18.35	low

#### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>)

: There is no data 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 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. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	UN1760	UN1760	UN1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (Sodium hydroxide, Sodium benzothiazol-2-yl sulphide) RQ (Sodium nitrite, Sodium hydroxide)	CORROSIVE LIQUID, N.O.S. (Sodium hydroxide, Sodium benzothiazol-2-yl sulphide). Marine pollutant (Sodium nitrite, Sodium benzothiazol-2-yl sulphide)	CORROSIVE LIQUID, N.O.S. (Sodium hydroxide, Sodium benzothiazol-2-yl sulphide)
Transport hazard class(es)	8 CORNEG HE	8	8
Packing group	III	III	III
Environmental hazards	No.	Yes.	No.

### Section 14. Transport information

Additional information

Reportable quantity 5000 lbs / 2270 kg [563.07 gal / 2131.5 L] Package sizes shipped in quantities less

than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5

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

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 : Not available.

to Annex II of MARPOL 73/78 and the IBC Code

### Section 15. Regulatory information

U.S. Federal regulations

: TSCA 5(a)2 final significant new use rules: Sodium nitrite

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

TSCA 12(b) one-time export: Sodium nitrite

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

Clean Water Act (CWA) 311: Sodium hydroxide; Sodium nitrite

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** 

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

SARA 302/304

#### Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard

#### Composition/information on ingredients

Name		Fire hazard	Sudden release of pressure		Immediate (acute) health hazard	Delayed (chronic) health hazard
Sodium hydroxide Sodium nitrite Disodium tetraborate, anhydrous Sodium benzothiazol-2-yl sulphide	1 - 5 1 - 5 1 - 5 0.1 - 1	No. Yes. No. No.	No. No. No.	No. No. No. Yes.	Yes. Yes. No. Yes.	No. No. Yes. No.



### Section 15. Regulatory information

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	Sodium nitrite	7632-00-0	1 - 5
Supplier notification	Sodium nitrite	7632-00-0	1 - 5

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

State regulations

Massachusetts : The following components are listed: Sodium hydroxide; Sodium nitrite; Disodium

tetraborate, anhydrous

New York : The following components are listed: Sodium hydroxide; Sodium nitrite

New Jersey : The following components are listed: Sodium hydroxide; Sodium nitrite; Disodium

tetraborate, anhydrous

Pennsylvania : The following components are listed: Sodium hydroxide; Sodium nitrite; Disodium

tetraborate, anhydrous

California Prop. 65

No products were found.

International regulations

International lists : Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Japan inventory: All components are listed or exempted. Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined.

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

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

Taiwan inventory (CSNN): Not determined.

Chemical Weapons

Convention List Schedule

**I Chemicals** 

Chemical Weapons
Convention List Schedule

II Chemicals

Chemical Weapons
Convention List Schedule

III Chemicals

: Not listed

Not listed

: Not listed

### Section 16. Other information

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

Health: 3 \* Flammability: 0 Physical hazards: 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).

The customer is responsible for determining the PPE code for this material.

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

Health: 3 Flammability: 0 Instability: 0



Lucas Supercoolant

### Section 16. Other information

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### **History**

Date of issue mm/dd/yyyy : 12/15/2013

Version : 1

Revised Section(s) : Not applicable.

Prepared by : KMK Regulatory Services Inc.

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

#### 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.