

Revision Date: 04.05.2022

## SAFETY DATA SHEET

Compiled in accordance with REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: PARATHERM™ LR

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

Identified uses: Heat Transfer Fluid

Uses advised against: Lubricating oils; Hydraulic fluid additive

1.3 Details of the supplier of the safety data sheet

Supplier

Company Name: LUBRIZOL LIMITED

Address: THE KNOWLE, NETHER LANE

HAZELWOOD, DERBYSHIRE, DE56 4AN

GB

Telephone: (44) 01332-842211

E-mail contact: EUSDS@lubrizol.com {Lubrizol Safety Data Sheets can be obtained at

www.mylubrizol.com}

1.4 Emergency telephone number:

FOR TRANSPORT EMERGENCY CALL CHEMTREC (+1) 703 527 3887

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classified in accordance with CLP Regulation (EC) No 1272/2008, as retained and amended in UK law.

Aspiration Hazard Category 1 H304: May be fatal if swallowed and enters

airways.

The full text for all H-phrases is displayed in section 16.

2.2 Label elements in accordance with CLP Regulation (EC) No 1272/2008, as retained and amended in UK law.



Signal Words: Danger

**Hazard Statement(s):** H304: May be fatal if swallowed and enters airways.



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**Precautionary Statements** 

Response: P301+P310: IF SWALLOWED: Immediately call a POISON

CENTER/doctor.

P331: Do NOT induce vomiting.

**Storage:** P405: Store locked up.

**Disposal:** P501: Dispose of contents/ container to an approved facility in

accordance with local, regional, national and international

regulations.

**Supplemental label information** 

Not applicable

**Components for Label Disclosure:** 

**Chemical name**Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
920-901-0

2.3 Other hazards: Endocrine Disruption- Toxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Endocrine Disruption-** Ecotoxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

# Compiled in accordance with CLP Regulation (EC) No 1272/2008, as retained and amended in UK law.

on law.					
Chemical name	Concentration	EC No.	REACH Registration No.	M-Factor:	Notes
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	50 - 100%	920-901-0	UK-01- 8511566070-7		

<sup>600, 700</sup> and 900 ECHA List Numbers do not have any legal significance; rather they are purely technical identifiers and are displayed for informational purposes only.

## Compiled in accordance with CLP Regulation (EC) No 1272/2008, as retained and amended in UK law.

Chemical name	Classification	Notes
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Asp. Tox. 1; H304	

The full text for all H-phrases is displayed in section 16.

See Section 15 for Regulation (EC) No. 1907/2006 REACH Article 59(1). Candidate List (Substances of Very High Concern (SVHC))



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### **SECTION 4: First aid measures**

4.1 Description of first aid measures

**Inhalation:** Remove exposed person to fresh air if adverse effects are observed.

**Eye contact:** Any material that contacts the eye should be washed out immediately

with water. If easy to do, remove contact lenses.

**Skin Contact:** Wash with soap and water. If skin irritation occurs, get medical

attention.

**Ingestion:** Do NOT induce vomiting. Aspiration of material due to vomiting can

cause chemical pneumonitis which can be fatal. If vomiting occurs naturally, the casualty should lean forward to reduce the risk of aspiration. Immediately call a POISON CENTER or doctor/ physician.

4.2 Most important

See section 11.

symptoms and effects, both acute and delayed:

4.3 Indication of any immediate medical attention and special treatment needed

**Hazards:** No data available.

**Treatment:** Treat symptomatically.

## SECTION 5: Firefighting measures

**General Fire Hazards:** Move containers from fire area if you can do so without risk.

5.1 Extinguishing media Suitable extinguishing

CO2, Dry chemical or Foam. Water can be used to cool and protect exposed material.

media:

Unsuitable extinguishing media:

Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture:

Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations. Vapors may travel considerable distance to a source of ignition and flash back. Water may

cause splattering. Container may rupture on heating. A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional information.

5.3 Advice for firefighters

Special fire fighting procedures:

No data available.

Special protective

equipment for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

### **SECTION 6: Accidental release measures**



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6.1 Personal precautions, protective equipment and emergency procedures:

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

6.2 Environmental Precautions:

Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning

up:

In case of leakage, eliminate all ignition sources. Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer,

basements or confined areas.

6.4 Reference to other sections:

See sections 8 and 13 for additional information.

## **SECTION 7: Handling and storage:**

7.1 Precautions for safe

handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment.

**Maximum Handling** Temperature:

Not determined.

7.2 Conditions for safe storage, including any incompatibilities:

Keep cool. Store in a well-ventilated place. Do not store near potential

End uses are listed in an attached exposure scenario when one is required.

sources of ignition.

**Maximum Storage** Temperature:

7.3 Specific end use(s):

Not determined.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control Parameters

### **Occupational Exposure Limits**

None of the components have assigned exposure limits.

### **DNEL-Values**

Critical component	Туре	Route of Exposure	Health Warnings	Remarks
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	General population	Inhalation	Local, long-term; 178.57 mg/m3	irritation respiratory tract
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Workers	Eyes	Local effect;	No hazard identified
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Workers	Inhalation	Systemic, short-term; 1286.4 mg/m3	Neurotoxicity
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	General population	Inhalation	Systemic, short-term; 1152 mg/m3	Neurotoxicity
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	General population	Eyes	Local effect;	No hazard identified

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Hydrocarbons, C11-C13,	Workers	Inhalation	Local, long-term; 837.5	irritation respiratory tract
isoalkanes, <2% aromatics			mg/m3	
Hydrocarbons, C11-C13,	General population	Dermal	Systemic, long-term;	Repeated dose toxicity
isoalkanes, <2% aromatics			300 mg/kg	
Hydrocarbons, C11-C13,	General population	Inhalation	Systemic, long-term;	Repeated dose toxicity
isoalkanes, <2% aromatics			0.41 mg/m3	
Hydrocarbons, C11-C13,	General population	Oral	Systemic, long-term;	Repeated dose toxicity
isoalkanes, <2% aromatics			300 mg/kg	
Hydrocarbons, C11-C13,	Workers	Inhalation	Local, short-term;	irritation respiratory tract
isoalkanes, <2% aromatics			1066.67 mg/m3	
Hydrocarbons, C11-C13,	General population	Inhalation	Local, short-term; 640	irritation respiratory tract
isoalkanes, <2% aromatics			mg/m3	
Hydrocarbons, C11-C13,	Workers	Inhalation	Systemic, long-term; 1.9	Repeated dose toxicity
isoalkanes, <2% aromatics			mg/m3	
Hydrocarbons, C11-C13,	General population	Inhalation	Systemic, long-term;	Repeated dose toxicity
isoalkanes, <2% aromatics			900 mg/m3	
Hydrocarbons, C11-C13,	Workers	Inhalation	Systemic, long-term;	Repeated dose toxicity
isoalkanes, <2% aromatics			1500 mg/m3	
Hydrocarbons, C11-C13,	Workers	Dermal	Systemic, long-term;	Repeated dose toxicity
isoalkanes, <2% aromatics			300 mg/kg	

### 8.2 Exposure controls

Appropriate engineering controls:

No special requirements under ordinary conditions of use and with

adequate ventilation.

### Individual protection measures, such as personal protective equipment

**General information:** Please follow the recommended personal protective equipment (PPE)

guidelines below and refer to the appropriate EN standard where

applicable. Use personal protective equipment as required.

**Eye/face protection:** Safety glasses. If potential for splash or mist exists, wear chemical goggles

or faceshield. Eye protection should meet the standards set out in EN 166.

Skin protection

**Hand Protection:** Use nitrile or neoprene gloves. Use good industrial hygiene practices. In

case of skin contact, wash hands and arms with soap and water.

**General:** Because specific work environments and material handling practices vary,

safety procedures should be specific for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures). Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of

the working conditions. For typical use and handling of chemical substances, gloves should meet the standards set out in EN 374. For applications involving mechanical risks with potential for abrasion or puncture, the standards set out in EN 388 should be considered. For tasks involving thermal hazards, the standards set out in EN 407 should be

considered.



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#### Break-through time:

Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type.

For continuous contact, we suggest gloves with a minimum breakthrough time of 240 minutes, or > 480 minutes if suitable gloves can be obtained. If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to. For short-term, transient exposures and splash protection, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.

### Glove thickness:

For general applications, we recommend gloves with a thickness typically greater than 0.35 mm.

It is important to note that glove thickness is not the only predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material.

Therefore, glove selection should also be based on consideration of the

task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, before being disposed of. Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where

there is abrasion or puncture potential.

**Other:** Wear apron or protective clothing in case of contact.

### **Respiratory Protection:**

Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.



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Respiratory Protective Equipment (RPE) is not normally required where there is adequate natural or local exhaust ventilation to control exposure. In case of insufficient ventilation, wear suitable respiratory equipment. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment.

Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in

consultation with the supplier/manufacturer and with a full assessment of

the working conditions.

Please refer to the relevant EN standards for the RPE selected.

**Hygiene measures:** Observe good industrial hygiene practices. When using do not smoke.

**Environmental** No data available.

**Controls:** See section 6 for details.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state: liquid Form: liquid

Color: No data available.

Odor: No data available.

Odor Threshold: No data available.

pH: Not applicable

Freezing point: No data available.

**Boiling Point:** > 203 °C

Flash Point: > 63 °C (Tagliabue Closed Cup)

**Evaporation Rate:**No data available.
Flammability (solid, gas):
No data available.

Upper/lower limit on flammability or explosive limits

Flammability Limit - Upper (%):

Flammability Limit - Lower (%):

No data available.

No data available.

Vapor pressure:

< 1 torr (21.1 °C)

Relative vapor density: > 1

Relative density: 0.76 (15.56 °C)

Solubility(ies)

Solubility in Water: Insoluble in water Solubility (other): No data available. Partition coefficient (n-octanol/water): No data available. **Autoignition Temperature:** No data available. **Decomposition Temperature:** No data available. Viscosity: No data available. **Explosive properties:** No data available. Oxidizing properties: No data available.



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**VOC Content:**No data available.

**Particle characteristics** 

Particle Size: Not applicable Particle Size Distribution: Not applicable Specific surface area: Not applicable Surface charge/Zeta potential: Not applicable **Assessment:** Not applicable Shape: Not applicable **Crystallinity:** Not applicable Surface treatment: Not applicable

Other information

Minimum ignition temperature: > 260 °C

## **SECTION 10: Stability and reactivity**

**10.1 Reactivity:** No data available.

**10.2 Chemical Stability:** Material is stable under normal conditions.

10.3 Possibility of hazardous

reactions:

Will not occur.

**10.4 Conditions to avoid:** Heat, sparks, flames.

**10.5 Incompatible Materials:** Strong oxidizing agents.

**10.6 Hazardous** Thermal decomposition or combustion may generate smoke, carbon

**Decomposition Products:** monoxide, carbon dioxide, and other products of incomplete combustion.

## **SECTION 11: Toxicological information**

### Information on likely routes of exposure

**Inhalation:** No data available.

**Ingestion:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

### 11.1 Information on toxicological effects

## Acute toxicity

Oral

Product: Not classified for acute toxicity based on available data.

Dermal

Product: Not classified for acute toxicity based on available data.



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Inhalation

Product: Not classified for acute toxicity based on available data. High

concentrations may cause headaches, dizziness, nausea, behavioral changes, weakness, drowsiness and stupor.

Skin Corrosion/Irritation:

Product: Remarks: Not classified as a primary skin irritant.

Serious Eye Damage/Eye Irritation:

Product: Remarks: Not classified as a primary eye irritant.

Respiratory sensitization:

No data available

Skin sensitization:

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

Classification: Not a skin sensitizer. (Measured)

**Specific Target Organ Toxicity - Single Exposure:** 

Hydrocarbons, C11-C13, May cause irritation to the mucous membranes and upper

isoalkanes, <2% aromatics respiratory tract.

**Aspiration Hazard:** 

Product: May be fatal if swallowed and enters airways.

Other effects: Chronic Effects Carcinogenicity:

No data available

Germ Cell Mutagenicity:

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

In vitro and in vivo genetic toxicity studies were negative.

Reproductive toxicity:

No data available

**Specific Target Organ Toxicity - Repeated Exposure:** 

No data available

11.2 Information on health hazards

Other hazards

Product: No data available.

**Endocrine Disruption** 

Product: The substance/mixture does not contain components considered to

have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.;



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## **SECTION 12: Ecological information**

12.1 Ecotoxicity

Fish

Hydrocarbons, C11-C13,

LC 50 (Rainbow Trout, 4 d): > 1,000 mg/l

isoalkanes, <2% aromatics

**Aquatic Invertebrates** 

Hydrocarbons, C11-C13, EC 50 (Water flea (Daphnia magna), 2 d): > 1,000 mg/l isoalkanes, <2% aromatics NOEC (Water flea (Daphnia magna), 21 d): > 1 mg/l

**Toxicity to Aquatic Plants** 

Hydrocarbons, C11-C13, EC 50 (Algae (Pseudokirchneriella subcapitata), 3 d): > 1,000 mg/l isoalkanes, <2% aromatics NOEC (Algae (Pseudokirchneriella subcapitata), 3 d): 1,000 mg/l

Toxicity to soil dwelling organisms

No data available

**Sediment Toxicity** 

No data available

**Toxicity to Terrestrial Plants** 

No data available

**Toxicity to Above-Ground Organisms** 

No data available

Toxicity to microorganisms

No data available

12.2 Persistence and Degradability

Biodegradation

Hydrocarbons, C11-C13,

isoalkanes, <2% aromatics

OECD TG 301 F, 89.8 %, 28 d, Readily biodegradable

**BOD/COD Ratio** 

No data available

12.3 Bioaccumulative potential

**Bioconcentration Factor (BCF)** 

No data available

Partition Coefficient n-octanol / water (log Kow)

No data available

12.4 Mobility:

No data available

12.5 Results of PBT and vPvB assessment

No data available

**12.6 Endocrine Disruption:** 



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Product: The substance/mixture does not contain components considered to

have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

## SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**Disposal methods:** Treatment, storage, transportation, and disposal must be in accordance

with applicable Federal, State/Provincial, and Local regulations.

Since emptied containers retain product residue, follow label warnings even

after container is emptied.

**Contaminated Packaging:** Container packaging may exhibit hazards.

## **SECTION 14: Transport information**

#### ADR

Not regulated.

#### **IMDG**

Not regulated.

#### IATA

Not regulated.

## 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

None known.

Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. For transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed. Review classification requirements before shipping materials at elevated temperatures.

## SECTION 15: Regulatory information

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

#### **EU Regulations**

EU. Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances:

None present or none present in regulated quantities.

## EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended:

None present or none present in regulated quantities.



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# EU. Chemicals Subject to PIC Procedure: Regulation 649/2012/EU on export and import of dangerous chemicals, as amended:

None present or none present in regulated quantities.

### Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List:

None present or none present in regulated quantities.

# Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:

None present or none present in regulated quantities.

## Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Chemical name	EC No.	Concentration
Hydrocarbons, C11-C13, isoalkanes, <2%	920-901-0	70 - 80%
aromatics		

# Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.:

None present or none present in regulated quantities.

# Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:

Chemical name	EC No.	Concentration
Hydrocarbons, C11-C13, isoalkanes, <2%	920-901-0	70 - 80%
aromatics		

# EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:

None present or none present in regulated quantities.

## EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:

None present or none present in regulated quantities.

## Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	EC No.	Concentration
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	920-901-0	70 - 80%
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	918-167-1	20 - 30%

### **Inventory Status**

Australia (AIIC)

All components are in compliance with chemical notification requirements in Australia.



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### Canada (DSL/NDSL)

All substances contained in this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List (DSL) or are exempt.

### China (IECSC)

All components of this product are listed on the Inventory of Existing Chemical Substances in China.

## European Union (REACh)

To obtain information on the REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

### Great Britain (UK REACH)

To obtain information on the UK REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

### Japan (ENCS)

All components are in compliance with the Chemical Substances Control Law of Japan.

### Korea (ECL)

All components are in compliance in Korea.

### New Zealand (NZIoC)

All components are in compliance with chemical notification requirements in New Zealand.

### Philippines (PICCS)

All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

### Switzerland (SWISS)

All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

### Taiwan (TCSCA)

All components of this product are listed on the Taiwan inventory.

## Turkey (KKDIK)

To obtain information on the KKDIK compliance status of this product, please e-mail REACH@SDSInquiries.com.

### United States (TSCA)

All substances contained in this product are listed on the TSCA inventory or are exempt.

The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.

## 15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

### **SECTION 16: Other information**

**Key literature references and** Internal company data and other publically available resources. **sources for data:** 



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### Wording of the H-statements in section 2 and 3:

H304 May be fatal if swallowed and enters airways.

H304 May be fatal if swallowed and enters airways.

### Other information:

## Abbreviations and acronyms:

ACGIH – American Conference of Governmental Industrial Hygienist

ADR - International Carriage of Dangerous Goods by Road

AICS - Australian Inventory of Chemical Substances

ATEmix - Acute Toxicity Estimate for the mixture

BCF - Bio concentration factor

DMSO - Dimethyl sulfoxide

DSL - Domestic Substance List

EC50 - Effective concentration that gives a response in 50% of the population

ECHA - European Chemical Agency

**ECL** - Existing Chemical List

**ENCS - Existing and New Chemical Substances** 

EPA – Environmental Protection Agency

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

IECSC - Inventory of Existing Chemical Substances

IMDG - International Maritime Dangerous Goods

IP 346 – A gravimetric assay used to determine the percentage weight of polycyclic aromatics

in oil, via a DMSO extraction technique

LC50 - Lethal concentration required to kill 50% of the population

MARPOL - International Conventions for the Prevention of Pollution from Ships

NDSL - Non Domestic Substance List

NOAEC - No observed adverse effect concentration

NOAEL - No observed adverse effect level

NOEC - No observed effective concentration

NTP - National Toxicology Program

NZloc - New Zealand Inventory of chemicals

OECD TG - Organization for Economic Cooperation and Development Test Guidelines

OSHA - Occupational, Safety, and Health Administration

PBT - Persistent bioaccumulative toxic chemical

PEL – Permissible Exposure Level

PICCS - Philippine Inventory of Chemicals and Chemical Substances

PPE - Personal Protective Equipment

PRTR - Pollutant Release and Transfer Register

REACH - Registration, Evaluation, Authorization & restriction of Chemicals

SVHC - Substance of Very High Concern

SWISS - Switzerland chemical ordinance

TCSCA - Toxic Chemical Substance Control Act

TLV - Threshold Limit Value

TSCA - Toxic Substances Control Act

TWA – Time Weighted Average

vPvB - very Persistent very Bioaccumulative

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#### Disclaimer:

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Reference to Regulation (EC) No. 1907/2006 (EU REACh), including but not limited to EU REACh registration numbers is provided for informational purposes only. UK REACH (EU Exit Regulation as amended) data and information will be provided as it becomes available.