

**Snow Leopard MRL-85**

**AC54085**

Version: 1.3

Revision Date: 07.07.2018

# SAFETY DATA SHEET

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

### 1.1 Product identifier

**Product name:** Snow Leopard MR-L85

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

**Identified uses:** Refrigerant Compressor lubricant  
**Uses advised against:** None determined.

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

#### Supplier

**Company Name:** PRIMALEC  
**Address:** Green Farm, Maidstone Road, Nettlestead Green  
Kent ME18 5HD GB  
**Telephone:** (44) 01622 816955  
**E-mail contact:** customers@primalec.co.uk

### 1.4 Emergency telephone number:

FOR TRANSPORT EMERGENCY CALL PRIMALEC +44 (0) 1622 816955

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

**Classification according to Regulation (EC) No 1272/2008 as amended.**

Chronic hazards to the aquatic environment	Category 3	H317: May cause an allergic skin reaction. H412: Harmful to aquatic life with long lasting effects.
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**Classification according to Directive 67/548/EEC or 1999/45/EC as amended.**

R52/53

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

### 2.2 Label elements according to Regulation (EC) No 1272/2008 as amended



**Signal Words:** Warning

**Hazard Statement(s):** H317: May cause an allergic skin reaction.  
H412: Harmful to aquatic life with long lasting effects.

# Snow Leopard MRL-85

# AC54085

Version: 1.3

Revision Date: 07.07.2018

## Precautionary Statement

### Prevention:

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

### Disposal:

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

## Supplemental label information

not applicable

## 2.3 Other hazards:

None identified.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Regulation No. 1272/2008.

Chemical name	Concentration	EC No.	REACH Registration No.	M-Factor:	Notes
Tricresylphosphate	1.0 - 10%	215-548-8			
Oxirane, [[[2-ethylhexyl]oxy]methyl]-	0.1 - 1.0%	219-553-6			

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

#### Classification Regulation No. 1272/2008.

Chemical name	Classification	Notes
Tricresylphosphate	Repr. 2; H361 Aquatic Chronic 1; H410 Aquatic Acute 1; H400	
Oxirane, [[[2-ethylhexyl]oxy]methyl]-	Skin Corr. 2; H315 Skin Sens. 1A; H317	

#### Directive 67/548/EEC.

Chemical name	Concentration	EC No.	REACH Registration No.	M-Factor:	Notes
Tricresylphosphate	1.0 - 10%	215-548-8			

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

#### Classification Directive 67/548/EEC.

Chemical name	Classification	Notes
Tricresylphosphate	N; R50/53 Repr. 3; Xn; R62	

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

## SECTION 4: First aid measures

### General:

IF exposed or concerned: Get medical advice/attention.

### 4.1 Description of first aid measures

#### Inhalation:

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

# Snow Leopard MRL-85

AC54085

Version: 1.3

Revision Date: 07.07.2018

**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 skin thoroughly with soap and water. If skin irritation or rash occurs: Get medical attention. Launder contaminated clothing before reuse.

**Ingestion:** Treat symptomatically. Get medical attention.

**4.2 Most important symptoms and effects, both acute and delayed:** See section 11.

## 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:** No unusual fire or explosion hazards noted.

### 5.1 Extinguishing media

**Suitable extinguishing media:** CO<sub>2</sub>, dry chemical, foam, water spray, water fog.

**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:** 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:** Recommend wearing self-contained breathing apparatus.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:** No data available.

**6.2 Environmental Precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

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

**6.4 Reference to other sections:** See sections 8 and 13 for additional information.

# Snow Leopard MRL-85

AC54085

Version: 1.3

Revision Date: 07.07.2018

## SECTION 7: Handling and storage:

### 7.1 Precautions for safe handling:

Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Observe good industrial hygiene practices. Provide adequate ventilation. Use personal protective equipment as required. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Launder contaminated clothing before reuse. Avoid environmental contamination.

### Maximum Handling Temperature:

Not determined.

### 7.2 Conditions for safe storage, including any incompatibilities:

Store away from incompatible materials. See section 10 for incompatible materials.

### Maximum Storage Temperature:

Not determined.

### 7.3 Specific end use(s):

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

## SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters

#### Occupational Exposure Limits

None of the components have assigned exposure limits.

### 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:

Use personal protective equipment as required.



##### Eye/face protection:

If contact is likely, safety glasses with side shields are recommended.

##### Skin protection

##### Hand Protection:

Wear suitable gloves resistant to chemical penetration (to European standard EN 374 or equivalent), e.g. PVC or nitrile rubber. Since the product consists of several substances, it is not possible to estimate the durability of the glove material beforehand and it therefore needs to be tested before use

##### Other:

Gloves, coveralls, apron, boots as necessary to minimize 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.

##### Hygiene measures:

Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

##### Environmental Controls:

No data available.  
See section 6 for details.

# Snow Leopard MRL-85

# AC54085

Version: 1.3

Revision Date: 07.07.2018

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state:	liquid
Form:	liquid
Color:	Clear

Odor: Mild

Odor Threshold: No data available.

pH: No data available.

Freezing point: No data available.

Boiling Point: No data available.

Flash Point: 250 °C (Cleveland Open Cup)

Evaporation Rate: No data available.

Flammability (solid, gas): No data available.

#### Upper/lower limit on flammability or explosive limits

Flammability Limit - Upper (%): No data available.

Flammability Limit - Lower (%): No data available.

Vapor pressure: No data available.

Vapor density (air=1): No data available.

Relative density: 0.982 (15.6 °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: 80 mm<sup>2</sup>/s (40 °C); > 10.2 mm<sup>2</sup>/s (100 °C )

Explosive properties: No data available.

Oxidizing properties: No data available.

VOC Content: No data available.

#### Other information

Pour Point Temperature: -36 °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: None known.

10.5 Incompatible Materials: Strong acids. Oxidizing agents. Strong bases.

10.6 Hazardous Decomposition Products: Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

# Snow Leopard MRL-85

# AC54085

Version: 1.3

Revision Date: 07.07.2018

## 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:** Ingestion of this material may cause gastric disturbances. Ingestion of this material can result in neurotoxicity. Signs and symptoms include increased sweating of hands and feet, numbness, tingling and weakness in extremities, unsteady gait and decreased reflexes. Not classified for acute toxicity based on available data.

##### Dermal

**Product:** Skin absorption of components of this material will cause systemic effects; note toxicity in other sections. Not classified for acute toxicity based on available data.

##### Inhalation

**Product:** High concentrations may cause headaches, dizziness, fatigue, nausea, vomiting, drowsiness, stupor, other central nervous system effects leading to visual impairment, respiratory failure, unconsciousness and death. Not classified for acute toxicity based on available data.

##### Skin Corrosion/Irritation:

**Product:** Not classified as a primary skin irritant. Remarks: Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.

##### Serious Eye Damage/Eye Irritation:

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

##### Respiratory sensitization:

No data available

##### Skin sensitization:

Oxirane, [[[2-ethylhexyl)oxy]methyl]-  
**Classification:** Strong skin sensitizer. (Literature) May cause sensitization by skin contact.

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

Tricresylphosphate  
If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

##### Aspiration Hazard:

No data available

# Snow Leopard MRL-85

# AC54085

Version: 1.3

Revision Date: 07.07.2018

## Chronic Effects

### Carcinogenicity:

No data available

### Germ Cell Mutagenicity:

No data available

### Reproductive toxicity:

Tricresylphosphate

Suspected of damaging fertility.

This material has been shown to impair fertility and cause adverse reproductive effects in rats and mice.

Tricresylphosphate

Suspected of damaging fertility.

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### Specific Target Organ Toxicity - Repeated Exposure:

Tricresylphosphate

Repeated occupational exposure to tricresyl phosphate over a prolonged period of time may cause delayed neurotoxicity characterized by ataxia and tremors.

## SECTION 12: Ecological information

### 12.1 Ecotoxicity

#### Fish

Tricresylphosphate

LC 50 (Rainbow Trout, 4 Days): 0.6 mg/l

NOEC (Rainbow Trout, 4 Days): 0.56 mg/l

#### Aquatic Invertebrates

Tricresylphosphate

EC 50 (Water flea (Daphnia magna), 2 d): 0.146 mg/l

#### Toxicity to Aquatic Plants

Tricresylphosphate

EC 50 (Alga, 3 Days): 0.4042 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

Tricresylphosphate

LC 50 (Sludge, 0.1 Days): > 1,000 mg/l

### 12.2 Persistence and Degradability

#### Biodegradation

Tricresylphosphate

Oxygen depletion 24.2 % (28 d, OECD TG 301 D)

# Snow Leopard MRL-85

# AC54085

Version: 1.3

Revision Date: 07.07.2018

## BOD/COD Ratio

No data available

## 12.3 Bioaccumulative Potential

### Bioconcentration Factor (BCF)

No data available

### Partition Coefficient n-octanol / water (log Kow)

Tricresylphosphate

Log Kow: 5.93 (Measured)

## 12.4 Mobility:

No data available

## 12.5 Results of PBT and vPvB assessment

No data available

## 12.6 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. Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains product residue which may exhibit hazards of product.

#### 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 MARPOL73/78 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.:

#### Inventory Status

Australia (AICS)

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



# Snow Leopard MRL-85

# AC54085

Version: 1.3

Revision Date: 07.07.2018

## Canada (DSL/NDSL)

All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.

## 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 us at customers@primalec.co.uk

## 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)

May require notification before sale in Taiwan.

## United States (TSCA)

All components of this material are on the US TSCA Inventory.

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

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

H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.

**Issue Date:** 07.07.2015

# Snow Leopard MRL-85

## AC54085

Version: 1.3

Revision Date: 07.07.2018

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