## Art Nr. AC55046G

# Safety Data Sheet - prepared according to Regulation (EC) No. 2015/830

Date of compilation: 28 June 2012 Revision date: 30 June 2016 Version: 2.1

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

## 1.1. Product identifier

Chemical type : Preparation

Trade name : SNOW LEOPARD HFO PAG46e with Glo-Leak UV

Colour Index/ Chemical name : Polyalkylene Glycol alkyl ether

Chemical characterization : Refrigerant Lubricant

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

#### 1.2.1. Relevant identified uses

Main use category : Refrigerant Lubricant

#### 1.2.2. Uses advised against

No additional information available

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

PRIMALEC (R J Doran & Co Ltd) Green Farm, Nettlestead Green

MAIDSTONE - ME18 5HD, England

T +44 (01)1622 816955 customers@primalec.co.uk

#### 1.4. Emergency telephone number

Emergency number +44 (01)1622 816955 : Other - specify

## SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification under CLP: \* Skin Sens. 1: H317; Aquatic Chronic 3: H412

**Most important adverse effects**: May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard statements:

\* H317: May cause an allergic skin reaction.

H412: Harmful to aquatic life with long lasting effects.

Hazard pictograms: \* GHS07: Exclamation mark



Signal words: \* Warning

#### **Precautionary statements:**

\* P280: Wear protective gloves/protective clothing/eye protection/face protection.

P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.

P302+352: IF ON SKIN: Wash with plenty of water/soap.

P333+313: If skin irritation or rash occurs: Get medical attention.

P273: Avoid release to the environment.

P501: Dispose of contents/container to hazardous or special waste collection point.

## 2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance

## Art Nr. AC55046G

# Safety Data Sheet - prepared according to Regulation (EC) No. 2015/830

Date of compilation: 28 June 2012 Revision date: 30 June 2016 Version: 2.1

## SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

#### **Hazardous ingredients:**

#### 2-[(4-TERT-BUTYLPHENOXY)METHYL]OXIRANE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
221-453-2	3101-60-8	-	Skin Sens. 1: H317; Aquatic	1-2.5%
			Chronic 2: H411	

#### 2,6-DI-TERT-BUTYL-P-CRESOL

204-881-4	128-37-0	Aquatic Acute 1: H400; Aquatic	<1%
		Chronic 1: H410	

## SECTION 4: First aid measures

#### 4.1 Description of First Aid Measures

First-aid measures after eye contact:

First-aid measures general: Information to Physicians: Treat symptomatically

**First-aid measures after inhalation**: Remove to fresh air. Ventilate suspected areas, if discomfort

persists, obtain medical attention

First-aid measures after skin contact: Rinse, then wash skin with water and soap. Remove

contaminated clothing, Do not remove clothing if it sticks to the skin , seek advice, or of in discomfort seek medical attention. Rinse immediately with plenty of water, under eyelids, and

Remove contact lens if present. Continue rinsing thoroughly.

**First-aid measures after ingestion**: Rinse thoroughly with water. Never give anything by mouth to an

unconscious person or if cramps are present.

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

Symptoms/injuries after inhalation: No Symptoms known to date

**Symptoms/injuries after skin contact**: There may be mild irritation at the site of contact. Dryness

Symptoms/injuries after eye contact: There may be irritation and redness.

Symptoms/injuries after ingestion: There may be irritation. Vomiting

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

No additional information available Seek Physicians advice

## SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: Water spray. Extinguishing powder, Carbon dioxide (CO2), alcohol

resistant foam.

#### 5.2. Special hazards arising from the substance or mixture

Reactivity : On burning: release of harmful/irritant gases/vapours.

5.3. Advice for firefighters

Firefighting instructions: Standard procedure for chemical fires. Cool tanks/drums with

water spray/remove them into safety.

Protection during firefighting: Use appropriate respiratory protection.

Other information: Contaminated fire-fighting water must be collected separately.

## Art Nr. AC55046G

# Safety Data Sheet - prepared according to Regulation (EC) No. 2015/830

Date of compilation: 28 June 2012 Revision date: 30 June 2016 Version: 2.1

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures: Avoid contact with skin, eyes and clothing. Avoid breathing

dust/fume/gas/mist/vapours/spray. When using do not eat, drink

or smoke.

6.1.1. For non-emergency personnel

Protective equipment: Wear personal protection equipment. Refer to chapter 8.

Emergency procedures: Ensure adequate ventilation. Wear suitable respiratory equipment

in case of insufficient ventilation. Keep unprotected persons from

entering.

6.1.2. For emergency responders

Protective equipment: Wear personal protection equipment. Refer to chapter 8.

Emergency procedures Ensure adequate ventilation. Wear suitable respiratory equipment

in case of insufficient ventilation. Keep unprotected persons from

entering.

#### **6.2. Environmental precautions**

Do not empty into drains or the aquatic environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Wash away remainder with plenty of water.

#### 6.4. Reference to other sections

See also section 8 & 13.

#### SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Precautions for safe handling:

Reduce/avoid exposure and/or contact. Keep away from sources of ignition - No smoking.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Do not drink, eat or smoke in the workplace.

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

Storage conditions:

Keep away from heat. Protect from freezing. Keep out of the reach of children.

Prohibitions on mixed storage:

Keep away from food, drink and animal feedingstuffs.

Storage area:

Ensure adequate ventilation of the storage area. Keep container tightly closed. Store in a cool dry place.

## 7.3. Specific end use(s)

No additional information available.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

**Appropriate engineering controls**: Ventilate area. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

## Art Nr. AC55046G

# Safety Data Sheet - prepared according to Regulation (EC) No. 2015/830

Date of compilation: 28 June 2012 Revision date: 30 June 2016 Version: 2.1

Personal protective equipment: Gloves. Protective clothing. Safety glasses.



**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

**Eye** protection: Tightly sealed safety glasses. **Skin and body** protection Wear suitable protective clothing

Respiratory protection: With correct and proper use, and under normal conditions, breathing

protection is not required.

**Environmental** exposure controls: Avoid release to the environment.

**Other** information: Keep away from food, drink and animal feedingstuffs.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : liquid.

Colour : light amber

Odour : Characteristic

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Pour point : <-25°C

Freezing point : No data available
Boiling point : No data available
Flash point :>230°C ASTM D6450
Autoflammability : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available

Relative vapour density :>1 (air=1)

Relative density at 20 °C : 0.99 g/cm³

Solubility : Water: Insoluble

Log Pow : No data available

Log Kow : No data available

Viscosity, kinematic : 44.6 mm²/s

Viscosity,@40°C : 46 mm²/s (typical)

Explosive properties : Product does not present an explosion hazard.

Oxidising properties : No data available Explosive limits : No data available

## Art Nr. AC55046G

# Safety Data Sheet - prepared according to Regulation (EC) No. 2015/830

Date of compilation: 28 June 2012 Revision date: 30 June 2016 Version: 2.1

#### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under recommended transport or storage conditions.

#### 10.2. Chemical stability

The product is stable under normal handling- and storage conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below

#### 10.4. Conditions to avoid

Sources of ignition. Flames. Heat.

## 10.5. Incompatible materials

Oxidizing and reducing agents. Strong acids

#### 10.6. Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NOx).

## SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Hazard	Route	Basis
Respiratory/skin sensitisation	DRM	Hazardous: calculated

**Skin contact**: \*May cause an allergic skin reaction. There may be irritation/redness at the site of contact.

**Eye contact**: There may be irritation and redness. **Ingestion**: None known. Inhalation: None known.

**Delayed / immediate effects**: \* Delayed effects can be expected after long-term exposure.

Other information: \* None known.

## SECTION 12: Ecological information

#### 12.1. Toxicity

#### Hazardous ingredients: 2-[(4-TERT-BUTYLPHENOXY)METHYL]OXIRANE

DAPHNIA MAGNA	48H EC50	67.9	mg/l
GREEN ALGAE (Pseudokirchneriella subcapi	72H ErC50	9.0	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	7.5	mg/l

#### 2,6-DI-TERT-BUTYL-P-CRESOL

ALGAE	72H ErC50	0.758	mg/l
DAPHNIA	48H EC50	0.48	mg/l
FISH	96H LC50	0.199	mg/l

## 12.2 Persistence and degradability

#### 12.3 Bioaccumulative potential

<sup>\*</sup> This product is partially/slowly biodegradable. BOD 28 = 16% ThOD (Sturm Test).

## Art Nr. AC55046G

# Safety Data Sheet - prepared according to Regulation (EC) No. 2015/830

Date of compilation: 28 June 2012 Revision date: 30 June 2016 Version: 2.1

No bioaccumulation potential

#### 12.4 Mobility in soil

Ecology - soil Readily absorbed into soil.

Results of PBT assessment No data available

12.5 Results of PBT assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

#### 12.6. Other adverse effects

#### SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

Regional legislation (waste) : Observe regulations when disposing.EU (E.W.C) is 13-02-06

Sewage disposal recommendations: Substance must not be discharged into the sewer.

Waste disposal recommendations : Consider recycling after cleansing. Remove to an authorized waste

incinerator.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA 14.1. UN number

This product does not require a classification for transport.

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Transport hazard class(es)

Not applicable

## 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Other information No supplementary information available.

## 14.6. Special precautions for user

14.6.1. Overland transport
 14.6.2. Transport by Sea
 14.6.3. Air transport
 No additional information available
 No additional information available

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

#### SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

EC Symbols: GHS07: Exclamation mark

EC Risk Phrases: See Section 16 for full list of relevant risk phrases
EC Safety Phrases: See Section 16 for full list of relevant safety phrases

EU Directives: Dangerous Substance Directive 67/548/EEC. Dangerous Preparations

Directive 1999/45/EC

Statutory Instruments: Chemicals ( Hazard Information and Packaging) regulations.

Approved code of practice: Classification and labelling of Substances and Preparations dangerous for

supply. Safety data sheets for substances and preparations.

Guidance notes: Workplace Exposure limits EH40. CHIP for everyone HSG(108)

<sup>\*</sup> Harmful to aquatic life with long lasting effects.

## Art Nr. AC55046G

# Safety Data Sheet - prepared according to Regulation (EC) No. 2015/830

Date of compilation: 28 June 2012 Revision date: 30 June 2016 Version: 2.1

#### 15.1.2. National regulations

Global Chemical Inventories: EC (EINECS) - All components listed or exempt. US (TSCA) - All components listed or exempt. Australia (AICS) - All components listed or exempt. New Zealand (NZIoC) - All components listed or exempt. Canada (DSL) - All components listed or exempt. Canada (NDSL) - All components listed or exempt. China (IECSC) - All components listed or exempt. Korea (KECI) - All components listed or exempt. Philippines (PICCS) - All components listed or exempt. Taiwan - All components listed or exempt.

## 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

#### SECTION 16: Other information

#### Other information

This safety data sheet is prepared in accordance with EU Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

#### Relevant Phrases used in Sections 2 & 3

H317: May cause an allergic skin reaction.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects

Data sources : This information is based on the present data (producers, chemical safety cards,

http://echa.europa.eu/, http://ecb.jrc.ec.europa.eu/esis/, ...).

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the newly made-up material.