

# SAFETY DATA SHEET Kilfrost Thermatrans Plus SP

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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

## 1.1. Product identifier

**Product name** Kilfrost Thermatrans Plus SP

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

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

Supplier Kilfrost Limited

Albion Works HALTWHISTLE Northumberland NE49 0HJ ENGLAND

Tel: (01434) 320332 Fax: (01434) 321463 Email: info@kilfrost.com

# 1.4. Emergency telephone number

Emergency telephone +44 (0) 1434 320332 (09:00 - 17:00, Mon-Fri) or +44 (0) 7827 653415 (24 hours)

## **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Hazard statements NC Not Classified

# 2.3. Other hazards

# SECTION 3: Composition/information on ingredients

# 3.2. Mixtures

PROPYLENE GLYCOL 60-100%

CAS number: 57-55-6 EC number: 200-338-0

Classification Classification (67/548/EEC or 1999/45/EC)

Not Classified -

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

# SECTION 4: First aid measures

#### 4.1. Description of first aid measures

## Kilfrost Thermatrans Plus SP

General information Treat symptomatically.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Get medical attention if any discomfort continues.

Ingestion Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under

observation. Get medical attention if any discomfort continues. Show this Safety Data Sheet

to the medical personnel.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15

minutes. Get medical attention if any discomfort continues.

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

**Inhalation** Irritation of nose, throat and airway.

Ingestion No specific symptoms known. May cause discomfort if swallowed.

**Skin contact** Prolonged skin contact may cause redness and irritation.

**Eye contact** May cause temporary eye irritation.

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

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

# SECTION 5: Firefighting measures

## 5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire.

# 5.2. Special hazards arising from the substance or mixture

Hazardous combustion

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and

**products** other toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during

firefighting

Cool containers exposed to heat with water spray and remove them from the fire area if it can

be done without risk.

Special protective equipment

for firefighters

Use protective equipment appropriate for surrounding materials.

# SECTION 6: Accidental release measures

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

**Personal precautions** For personal protection, see Section 8.

# 6.2. Environmental precautions

Environmental precautions Contain spillage with sand, earth or other suitable non-combustible material.

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

Methods for cleaning up Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste

disposal containers and seal securely. Flush contaminated area with plenty of water. Take care as floors and other surfaces may become slippery. For waste disposal, see Section 13.

#### 6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

## SECTION 7: Handling and storage

## Kilfrost Thermatrans Plus SP

## 7.1. Precautions for safe handling

**Usage precautions** Read and follow manufacturer's recommendations.

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

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

## 8.1. Control parameters

## Occupational exposure limits

#### PROPYLENE GLYCOL

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate

Long-term exposure limit (8-hour TWA): WEL 150 ppm 474 mg/m³ total vapour and particulates

WEL = Workplace Exposure Limit

## 8.2. Exposure controls

# Protective equipment







Appropriate engineering

controls

No specific recommendations. Respiratory protection must be used if the airborne

contamination exceeds the recommended occupational exposure limit.

**Eye/face protection** The following protection should be worn: Chemical splash goggles.

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if

a risk assessment indicates skin contact is possible.

Other skin and body

protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures Provide eyewash station. Wash hands after handling. Wash contaminated clothing before

reuse.

**Respiratory protection** If ventilation is inadequate, suitable respiratory protection must be worn.

**Environmental exposure** 

controls

Keep container tightly sealed when not in use.

# **SECTION 9: Physical and Chemical Properties**

# 9.1. Information on basic physical and chemical properties

Appearance Clear liquid.

Colour Red.

Odour Mild. Amine.

pH pH (concentrated solution): 8.5 - 9.5

Melting point -5°C

Initial boiling point and range 104 deg C

Flash point ~100 deg C

## Kilfrost Thermatrans Plus SP

Relative density ~ 1.04 @ 1.08°C

#### 9.2. Other information

# SECTION 10: Stability and reactivity

10.1. Reactivity

**Reactivity**There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous

Not relevant.

reactions

10.4. Conditions to avoid

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

Does not decompose when used and stored as recommended. Oxides of carbon. Thermal  $\,$ 

products decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) Estimated value.

Acute toxicity - inhalation

ATE inhalation (gases ppm) 450,000.0

ATE inhalation (vapours mg/l) 1,100.0

ATE inhalation (dusts/mists 150.0

mg/l)

General information No specific health hazards known.

## SECTION 12: Ecological Information

12.1. Toxicity

Acute toxicity - fish LC50, 96 hours, 96 hours: > 10,000 mg/l, Onchorhynchus mykiss (Rainbow trout)

Estimated value.

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

**Mobility** The product is miscible with water. May spread in water systems.

# Kilfrost Thermatrans Plus SP

Surface tension 37 mN/m @ @ 20°C (33% solution)

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

No data available.

assessment

12.6. Other adverse effects

Other adverse effects Not determined.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

General information Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site

in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods**Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

## SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

#### 14.1. UN number

Not applicable.

# 14.2. UN proper shipping name

Not applicable.

# 14.3. Transport hazard class(es)

No transport warning sign required.

# 14.4. Packing group

Not applicable.

# 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

# 14.6. Special precautions for user

Not applicable.

# 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

# SECTION 15: Regulatory information

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

# Kilfrost Thermatrans Plus SP

**EU legislation** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Commission Regulation (EU) No 453/2010 of 20 May 2010.

Guidance Workplace Exposure Limits EH40.

Water hazard classification WGK 1

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

# SECTION 16: Other information

General information Only trained personnel should use this material.

Revision date 01/07/2015

Revision 1

SDS status Approved.

Risk phrases in full NC Not classified.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.