



SAFETY DATA SHEET

Kilfrost K400

According to Hazcom 2012 (Appendix D To §1910.1200)

1. Identification

Product identifier

Product name Kilfrost K400

Recommended use of the chemical and restrictions on use

Application Lubricant for pneumatic tools. Antifreeze liquid.

Details of the supplier of the safety data sheet

Supplier Kilfrost Inc
2255 Glades Road
Suite 324A; PMB#19
Boca Raton
Florida 33431
USA
954 282 5050
Email: usa.sales@kilfrost.com

Emergency telephone number

Emergency telephone Kilfrost Inc. Emergency Tel: 954 598-3391 or 954 856-0130

For Chemical Emergency
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
For Chemical Emergency
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

2. Hazard(s) identification

Classification of the substance or mixture

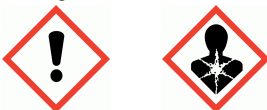
Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 Eye Irrit. 2A - H319 STOT RE 2 - H373

Environmental hazards Not Classified

Label elements

Pictogram



Signal word

Warning

Kilfrost K400

| | |
|---------------------------------|--|
| Hazard statements | H302 Harmful if swallowed. H319 Causes serious eye irritation. H373 May cause damage to organs through prolonged or repeated exposure. |
| Precautionary statements | P260 Do not breathe vapor/ spray. P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P310 If swallowed: Immediately call a poison center/ doctor. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P314 Get medical advice/ attention if you feel unwell. P330 Rinse mouth. P337+P313 If eye irritation persists: Get medical advice/ attention. P501 Dispose of contents/ container in accordance with national regulations. |
| Contains | ETHANEDIOL |

Other hazards

No other information known.

3. Composition/information on ingredients**Mixtures**

| | |
|---|---------------|
| ETHANEDIOL | 30-60% |
| CAS number: 107-21-1 | |
| Classification Acute Tox. 4 - H302 Acute Tox. 3 - H331 STOT RE 2 - H373 | |
| SODIUM SULPHONATE | 5-35% |
| CAS number: 68608-26-4 | |
| Classification Eye Irrit. 2A - H319 | |

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures**Description of first aid measures**

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| General information | Treat symptomatically. |
| Inhalation | Move affected person to fresh air at once. Get medical attention. |
| Ingestion | Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Keep affected person under observation. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Show this Safety Data Sheet to the medical personnel. |
| Skin Contact | Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues. |
| Eye contact | Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. |

Kilfrost K400**Most important symptoms and effects, both acute and delayed**

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| Inhalation | Irritation of nose, throat and airway. |
| Ingestion | May cause discomfort if swallowed. Sore throat. May cause stomach pain or vomiting. |
| Skin contact | Prolonged skin contact may cause redness and irritation. |
| Eye contact | Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain. May cause severe eye irritation. Profuse watering of the eyes. |

Indication of immediate medical attention and special treatment needed

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| Notes for the doctor | No specific recommendations. If in doubt, get medical attention promptly. |
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5. Fire-fighting measures**Extinguishing media**

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| Suitable extinguishing media | Use fire-extinguishing media suitable for the surrounding fire. |
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Special hazards arising from the substance or mixture

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| Hazardous combustion products | Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |
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Advice for firefighters

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| 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. |
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| Special protective equipment for firefighters | Use protective equipment appropriate for surrounding materials. |
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6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

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| Personal precautions | For personal protection, see Section 8. |
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Environmental precautions

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| Environmental precautions | Collect and dispose of spillage as indicated in Section 13. Avoid discharge to the aquatic environment. |
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Methods and material for containment and cleaning up

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| Methods for cleaning up | Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. |
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| Reference to other sections | For personal protection, see Section 8. Collect and dispose of spillage as indicated in Section 13. |
|------------------------------------|---|

7. Handling and storage**Precautions for safe handling**

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| Usage precautions | Avoid spilling. Avoid contact with skin and eyes. Read and follow manufacturer's recommendations. Avoid contact with eyes. |
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Conditions for safe storage, including any incompatibilities

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| Storage precautions | Store in tightly-closed, original container in a dry, cool and well-ventilated place. |
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| Storage class | 10 - 13 Miscellaneous hazardous material storage. |
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Specific end uses(s)

Kilfrost K400

Specific end use(s) The identified uses for this product are detailed in Section 1.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

ETHANEDIOL

Ceiling exposure limit: ACGIH 100 mg/m³

A4

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield.

Hand protection

It is recommended that chemical-resistant, impervious gloves are worn.

Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

Provide eyewash station. When using do not eat, drink or smoke. Wash hands after handling. Wash contaminated clothing before reuse.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P3.

Environmental exposure controls

Keep container tightly sealed when not in use.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

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| Appearance | Liquid. |
| Color | Red-brown. |
| Odor | Slight. |
| pH | pH (concentrated solution): 8.5 - 9.5 |
| Initial boiling point and range | 115 - 125 @°C @ 1013 hPa |
| Flash point | >115 degC°C CC (Closed cup). |
| Vapor pressure | 8.5 mm Hg @ °C |
| Vapor density | 1.69 |
| Relative density | 1.107 @ @ 20°C |
| Solubility(ies) | Miscible with water. |
| Auto-ignition temperature | 410°C |

Kilfrost K400

Viscosity 20 m²/s @ 20°C

Freezing Point (°C) -60 degC

10. Stability and reactivity

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

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

Possibility of hazardous reactions Not relevant.

Conditions to avoid Avoid heat.

Materials to avoid Strong oxidizing agents. Strong acids.

Hazardous decomposition products Does not decompose when used and stored as recommended. Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological informationInformation on toxicological effectsAcute toxicity - oral

Notes (oral LD₅₀) Estimated value.

ATE oral (mg/kg) 1,590.0

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitization

Respiratory sensitization Based on available data the classification criteria are not met.

Skin sensitization

Skin sensitization Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure STOT RE 2 - H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure if swallowed.

Aspiration hazard

Aspiration hazard No data available.

Kilfrost K400

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|--------------------|--|
| Ingestion | Harmful if swallowed. May cause stomach pain or vomiting. |
| Eye contact | Risk of serious damage to eyes. Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain. May cause severe eye irritation. |

Toxicological information on ingredients.**ETHANEDIOL****Acute toxicity - oral**

ATE oral (mg/kg) 1,590.0

Acute toxicity - dermalAcute toxicity dermal (LD₅₀ mg/kg) 10,600.0

Species Rabbit

Acute toxicity - inhalationAcute toxicity inhalation (LC₅₀ vapours mg/l) 2.5

Species Rat

ATE inhalation (vapours mg/l) 2.5

12. Ecological Information**Ecotoxicity** The product components are not classified as environmentally hazardous.**Acute toxicity - fish** LC50, 96 hours: 18500 mg/l, Onchorhynchus mykiss (Rainbow trout)
Estimated value.**Persistence and degradability****Persistence and degradability** The product is expected to be biodegradable.**Bioaccumulative potential****Bio-Accumulative Potential** No data available on bioaccumulation.**Mobility in soil****Mobility** The product is miscible with water. May spread in water systems.**Other adverse effects****Other adverse effects** Not determined.**13. Disposal considerations****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.**14. Transport information**

Kilfrost K400

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

UN Number

Not applicable.

UN proper shipping name

Not applicable.

Transport hazard class(es)

No transport warning sign required.

Packing group

Not applicable.

Environmental hazards**Environmentally Hazardous Substance**

No.

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information**Inventories****Canada - DSL/NDSL**

All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

16. Other information

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|----------------------------------|--|
| General information | Only trained personnel should use this material. |
| Revision comments | NOTE: Lines within the margin indicate significant changes from the previous revision. |
| Revision date | 6/22/2018 |
| Revision | 3.2 |
| SDS status | Approved. |
| Hazard statements in full | H302 Harmful if swallowed. H319 Causes serious eye irritation. H331 Toxic if inhaled. H373 May cause damage to organs through prolonged or repeated exposure. H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure if swallowed. |

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.