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# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier

Product name: FRASCOLD® 68POE

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

Refrigeration Compressors only

1.3 Details of the supplier of the safety data sheet

**Supplier** 

Company Name: FRASCOLD SPA

Address: Via Barbara Melzi, 103/105

20027 RESCALDINA (MI) Italy

Telephone: (39) 0331-742201 E-mail contact: Frascold@Frascold.it

1.4 Emergency telephone number:

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

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

This product does not meet the classification requirements of the current European legislation.

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

Not classified

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

not applicable

**2.3 Other hazards:** None identified.

# SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Regulation No. 1272/2008.

This material has no known hazards under applicable laws.

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

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

#### 4.1 Description of first aid measures



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

breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If experiencing respiratory symptoms call a poison

center or doctor.

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

water. If easy to do, remove contact lenses. If eye irritation persists: Get

medical advice/attention.

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

Remove contaminated clothing. 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:** Use water to cool containers exposed to fire.

5.1 Extinguishing media

Suitable extinguishing

media:

CO2, dry chemical, foam, water spray, water fog.

Unsuitable extinguishing

media:

Not determined.

5.2 Special hazards arising from the substance or

mixture:

See section 10 for additional information. Water may cause splattering. Container may rupture on heating. Burning may produce irritating, toxic and

obnoxious fumes.

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:

Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Only trained personnel should be permitted in area. Caution: Contaminated surfaces may be slippery.



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6.2 Environmental Precautions:

Avoid release to the environment. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.

Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning

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.

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

# 7.1 Precautions for safe handling:

Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment.

Keep containers closed when not in use. Avoid eye contact. Avoid repeated or prlonged skin contact. When using do not eat, drink or smoke. Product can accumulate static charge when handled. Equipment should be grounded. Use grounding and bonding connection when transferring material. Use spark-proof tools and explosion-proof equipment. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition.

ignition.

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. Store away from oxidizers. Keep container tightly closed. Do not store in open, unlabeled or mislabeled containers.

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:

Use material in well ventilated area only. Adequate ventilation should be provided so that exposure limits are not exceeded. Mechanical ventilation or local exhaust ventilation may be required.

#### 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.



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**Eye/face protection:** If contact is likely, safety glasses with side shields are recommended. Eye

protection should meet the standards set out in EN 166.

Skin protection

**Hand Protection:** Neoprene. Consult clothing/glove manufacturer to determine appropriate

type of glove for given situation. Gloves should always be inspected before each use and discarded if they show tears, pinholes, or signs of wear. Use good industrial hygiene practices to avoid skin contact. If contact with the

material may occur wear chemically protective gloves.

**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.

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.



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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:

Long sleeve shirt is recommended. Do not wear rings, watches or similar apparel that could entrap the material.

**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. Use respirator with a combination organic vapor and high efficiency filter cartridge if recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

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:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated

footwear that cannot be cleaned.

**Environmental** Controls:

No data available. See section 6 for details.



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

9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state: liquid Form: liquid

Color: Colorless to yellow

Odor: Mild

Odor Threshold:No data available.pH:No data available.Freezing point:No data available.Boiling Point:No data available.

Flash Point: 270 °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 (%):

Flammability Limit - Lower (%):

Vapor pressure:

Vapor density (air=1):

Relative density:

No data available.

Solubility(ies)

Solubility 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: Approximate 72.3 mm2/s (40 °C); Approximate 9.8 mm2/s

(100 °C)

Explosive properties:No data available.Oxidizing properties:No data available.VOC Content:No data available.

Other information

**Pour Point Temperature:** Approximate -39 °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:** Do not expose to excessive heat, ignition sources, or oxidizing materials.

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

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10.6 Hazardous Decomposition Products:

Thermal decomposition or combustion may generate smoke, carbon 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: LD 50 (Rat): > 2,000 mg/kg (Read across) Not classified

Ingestion of this material may cause gastric disturbances.

**Dermal** 

Product: LD 50 (Rabbit): > 2,000 mg/kg (Read across) Not classified

Inhalation

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

Skin Corrosion/Irritation:

Product: Classification: May cause irritation. (Read across); Rabbit.

Remarks: Not classified as a primary skin irritant.

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: Classification: May cause irritation. (Read across); Rabbit.

Remarks: Not classified as a primary eye irritant.

Respiratory sensitization:

No data available

Skin sensitization:

Product: Classification: Not a skin sensitizer. (Read across) Not a skin

sensitizer.

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

Product: 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



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**Chronic Effects** 

Carcinogenicity:

No data available

**Germ Cell Mutagenicity:** 

No data available

Reproductive toxicity:

No data available

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

No data available

# **SECTION 12: Ecological information**

12.1 Ecotoxicity

Fish

Product: LC 50 (Fathead Minnow, 4 d): > 10,000 mg/l

**Aquatic Invertebrates** 

Product: EC 50 (Water flea (Daphnia magna), 2 d): > 1,000 mg/l

**Toxicity to Aquatic Plants** 

Product: EC 50 (Green algae (Selenastrum capricornutum), 4 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

Product: EC 50 (Sludge, 0.1 d): > 10,000 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: Carbon dioxide generation 35 % (28 d, OECD TG 302 B)

**BOD/COD Ratio** 

No data available

12.3 Bioaccumulative Potential

**Bioconcentration Factor (BCF)** 

No data available



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#### 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 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 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:

## **EU Regulations**

## Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer:

None present or none present in regulated quantities.

#### Regulation (EC) No. 850/2004 on persistent organic pollutants:

None present or none present in regulated quantities.



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### Regulation (EC) No. 689/2008 Import and export of dangerous chemicals:

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:

None present or none present in regulated quantities.

# 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.:

None present or none present in regulated quantities.

# Directive 96/82/EC (Seveso II): on the control of major accident hazards involving dangerous substances:

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:

None present or none present in regulated quantities.

#### **Inventory Status**

# Australia (AICS)

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

#### 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 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.



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Taiwan (TCSCA)

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

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

No Chemical Safety Assessment has been carried out.

assessment:

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

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

## Wording of the H-statements in section 2 and 3: none

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



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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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