



REFRIGERATORI PER FLUIDI
APPLICAZIONI FRIGORIFERE SPECIALI
FLUID COOLERS
SPECIAL COOLING APPLICATIONS

AZIENDA CERTIFICATA



EURO COLD srl

Via Aldo Moro n.11/e - 41030 Bomporto (MO) Italy

Tel. +39.059.8178138 r.a - Fax +39.059.8170482

P.IVA 02669040368 - REA MO 321144

Cap. Soc. € 153.000 i.v.

Internet: www.eurocold.it

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Revision nr. 8
Dated 26/05/2017
Printed on 30/05/2017

Safety data sheet

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

1.1. Product identifier

Code: EUR1045
Product name: EUROCLEAN 1045

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

Intended use: PRODOTTO PER LA RIMOZIONE DI SOSTANZE GRASSE E OLII IN CIRCUITI IDRAULICI MULTIMATERIALI

| Intended use | Industrial | Professional | Consumption |
|--------------|------------|--------------|-------------|
| Sector | ✓ | ✓ | - |

1.3. Emergency telephone number

For urgent inquiries refer to: Centro Antiveneni Ospedale Niguarda +39 0266101029

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

| | | |
|--|------|--|
| Skin sensitization, category 1 | H317 | May cause an allergic skin reaction. |
| Hazardous to the aquatic environment, chronic toxicity, category 2 | H411 | Toxic to aquatic life with long lasting effects. |

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.



Signal words:



Warning

Hazard statements:

| | |
|------|--|
| H317 | May cause an allergic skin reaction. |
| H411 | Toxic to aquatic life with long lasting effects. |

Precautionary statements:

| | |
|------|-----------------------------------|
| P261 | Avoid breathing dust/vapours/haze |
|------|-----------------------------------|



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P273 Avoid release to the environment.
P280 Wear protective gloves.
P333+P313 If skin irritation or rash occurs: Get medical advice / attention.
P362+P364 Remove any contaminated clothes and carefully wash them before reuse
P391 Collect the leakage material

Contains: (R)-P-MENTHA-1,8-DIENE

2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

| Identification. | Conc. %. | Classification 1272/2008 (CLP). |
|---|---------------|--|
| (R)-P-MENTHA-1,8-DIENE CAS. 5989-27-5 EC. 227-813-5 INDEX. 601-029-00-7 Nr. Reg. 01-2119529223-47-XXXX | 2,5 ≤ x < 5,5 | Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410, Note C |
| 2-BUTOXYETHANOL CAS. 111-76-2 EC. 203-905-0 INDEX. 603-014-00-0 Nr. Reg. 01-2119475108-36-XXXX | 1 ≤ x < 4 | Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315 |

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures.

4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorized by a doctor.

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

Information not available.

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



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Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapors and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. If the product is flammable, use an explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.



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SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapors may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

| | | |
|-----|----------------|---|
| DEU | Deutschland | MAK-und BAT-Werte-Liste 2012 |
| ESP | España | INSHT - Límites de exposición profesional para agentes químicos en España 2015 |
| FRA | France | JORF n°0109 du 10 mai 2012 page 8773 texte n° 102 |
| GRB | United Kingdom | EH40/2005 Workplace exposure limits |
| GRC | Ελλάδα | ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012 |
| ITA | Italia | Decreto Legislativo 9 Aprile 2008, n.81 |
| POL | Poland | ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r |
| PRT | Portugal | Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da Republica I 26; 2012-02-06 |
| EU | OEL EU | Direttiva (UE) 2017/164; Direttiva 2009/161/UE; Direttiva 2006/15/CE; Direttiva 2004/37/CE; Direttiva 2000/39/CE; Direttiva 91/322/CEE. |
| | TLV-ACGIH | ACGIH 2016 |

2-BUTOXYETHANOL Threshold Limit Value.

| Type | Country | TWA/8h | | STEL/15min | | |
|------|---------|--------|-----|------------|-----|-------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| AGW | DEU | 49 | 10 | 196 | 40 | SKIN. |
| MAK | DEU | 49 | 10 | 98 | 20 | SKIN. |
| VLA | ESP | 98 | 20 | 245 | 50 | SKIN. |
| VLEP | FRA | 49 | 10 | 246 | 50 | SKIN. |
| WEL | GRB | 123 | 25 | 246 | 50 | SKIN. |
| TLV | GRC | 120 | 25 | | | |
| VLEP | ITA | 98 | 20 | 246 | 50 | SKIN. |



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| | | | | | | |
|-----------|-----|----|----|-----|----|-------|
| NDS | POL | 98 | | 200 | | |
| VLE | PRT | 98 | 20 | 246 | 50 | SKIN |
| OEL | EU | 98 | 20 | 246 | 50 | SKIN. |
| TLV-ACGIH | | 97 | 20 | | | |

(R)-P-MENTHA-1,8-DIENE

Threshold Limit Value.

| Type | Country | TWA/8h | | STEL/15min | | | | |
|---|----------------------|-----------------|----------------|--------------------|--------------|-----------------|----------------|-------------------|
| | | mg/m3 | ppm | mg/m3 | ppm | | | |
| AGW | DEU | 110 | 20 | 220 | 40 | | | |
| MAK | DEU | 28 | 5 | 112 | 20 | SKIN. | | |
| Concentrazione prevista di non effetto sull'ambiente - PNEC | | | | | | | | |
| Reference value for STP microorganisms | | | | 3,94 | mg/l | | | |
| Health - Non-effect derived level - DNEL / DMEL | | | | | | | | |
| Exposure | Effects on consumers | | | Effects on workers | | | | |
| | Locals acute | Sistemics acute | Locali chronic | Sistemics chronic | Locals acute | Sistemics acute | Locali chronic | Sistemics chronic |
| Dermal | | | | | | | | |

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.
 VND = danger identified but no DNEL / PNEC available; NEA = no exposure foreseen; NPI = no danger identified.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. When choosing personal protective equipment, ask your chemical suppliers if necessary. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapors of various kinds and/or gases or vapors containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odorless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.



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Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

| | |
|--|----------------|
| Appearance | liquid |
| Colour | yellow |
| Odour | Not available. |
| Odour threshold. | Not available. |
| pH. | 6-8 |
| Melting point / freezing point. | Not available. |
| Initial boiling point. | Not available. |
| Boiling range. | Not available. |
| Flash point. | Not available. |
| Evaporation Rate | Not available. |
| Flammability of solids and gases | Not available. |
| Lower inflammability limit. | Not available. |
| Upper inflammability limit. | Not available. |
| Lower explosive limit. | Not available. |
| Upper explosive limit. | Not available. |
| Vapour pressure. | Not available. |
| Vapour density | Not available. |
| Relative density. | 0,02 Kg/l |
| Solubility | Not available. |
| Partition coefficient: n-octanol/water | Not available. |
| Auto-ignition temperature. | Not available. |
| Decomposition temperature. | Not available. |
| Viscosity | Not available. |
| Explosive properties | Not available. |
| Oxidising properties | Not available. |

9.2. Other information.

Information not available.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

2-BUTOXYETHANOL: decomposes in the presence of heat.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

The vapors may also form explosive mixtures with the air.

2-BUTOXYETHANOL: can react dangerously with: aluminum, oxidizing agents. Forms peroxide with air.

10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.



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2-BUTOXYETHANOL: avoid exposure to sources of heat and naked flames.

10.5. Incompatible materials.

Information not available.

10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapors that are potentially dangerous to health may be released.

2-BUTOXYETHANOL: hydrogen.

SECTION 11. Toxicological information.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects.

Metabolism, kinetics, mechanism of action and other information

Information not available.

Information on likely ways of exposure

Information not available.

Immediate, delayed and chronic effects from short and long term exposures

Information not available.

Interactive effects

Information not available.

ACUTE TOXICITY

LC50 (Inhalation):> 20 mg/l

LD50 (Oral):>2000 mg/kg

LD50 (Dermal) della miscela:>2000 mg/kg

R) -P-MENTA-1,8-DIENE

4400 mg/kg Rat

LD50 (Oral)

> 5000 mg/kg Rabbit

LD50 (Dermal)

2-BUTOXYETHANOL

LD50 (Oral).615 mg/kg Rat

LD50 (Dermal).405 mg/kg Rabbit

LC50 (Inhalation).2,2 mg/l/4h Rat

DERMAL CORROSION / DERMAL IRRITATION

It does not meet the classification criteria for this class of danger

HARDS EYE DAMAGE / EYES IRRITATION

It does not meet the classification criteria for this class of danger

RESPIRATORY OR DERMAL SENSITIVITY

Sensitive for the skin

MUTAGENICITY ON GERMINAL CELLS

It does not meet the classification criteria for this class of danger

CARCINOGENICITY

It does not meet the classification criteria for this class of danger

TOXICITY FOR REPRODUCTION

It does not meet the classification criteria for this class of danger

SPECIFIC TOXICITY FOR TARGET ORGANS (STOT) - SINGLE EXPOSURE

It does not meet the classification criteria for this class of danger



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SPECIFIC TOXICITY FOR TARGET ORGANS (STOT) - REPEATED EXPOSURE

It does not meet the classification criteria for this class of danger

DANGER IN CASE OF ASPIRATION

It does not meet the classification criteria for this class of danger

SECTION 12. Ecological information.

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity.

(R)-P-MENTHA-1,8-DIENE

| | |
|--------------------------------|---|
| LC50 - for Fish. | 35 mg/l/96h Oncorhynchus mykiss |
| EC50 - for Crustacea. | 69,6 mg/l/48h Daphnia pulex |
| EC50 - Algae / Aquatic Plants. | 3,94 mg/l/72h sludge – bacteria treatment |

12.2. Persistence and degradability.

(R)-P-MENTHA-1,8-DIENE

Solubility in water. mg/l 0,1 - 100
Rapidly biodegradable.

2-BUTOXYETHANOL

Solubility in water. mg/l 1000 - 10000
Rapidly biodegradable.

12.3. Bioaccumulative potential.

(R)-P-MENTHA-1,8-DIENE

Partition coefficient: n-octanol/water. 4,38
BCF. 1022

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water. 0,81

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.



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Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorized waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

14.1. UN number.

| | |
|---------------------------|---|
| ADR / RID, IMDG, IATA: | 3082 |
| ADR / RID: | If transported in simple or internal capacity packaging of ≤ 5Kg or 5L, the product is not subject to the ADR / RID requirements, as stated by Special Disposition 375. |
| IMDG: | If transported in simple or internal capacity packaging of ≤ 5Kg or 5L, the product is not subject to the IMDG Code, as stated in section 2.10.2.7. |
| IATA: | If transported in simple or internal capacity packaging of ≤ 5Kg or 5L, the product is not subject to IATA requirements as stated in Special Disposition A197. |

14.2. UN proper shipping name.

| | |
|------------|--|
| ADR / RID: | ENVIRONMENT ALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((R)-P-MENTHA- 1,8-DIENE) |
| IMDG: | ENVIRONMENT ALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((R)-P-MENTHA- 1,8-DIENE) |
| IATA: | ENVIRONMENT ALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((R)-P-MENTHA- 1,8-DIENE) |

14.3. Transport hazard class(es).

| | | |
|------------|----------|----------|
| ADR / RID: | Class: 9 | Label: 9 |
|------------|----------|----------|





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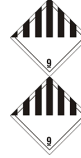


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IMDG: Class: 9 Label: 9

IATA: Class: 9 Label: 9



14.4. Packing group.

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards.

ADR / RID: Environmentally Hazardous.

IMDG: Marine Pollutant.

IATA: Environmentally Hazardous.



14.6. Special precautions for user.

| | | | |
|------------|---------------------------------------|-------------------------|------------------------------|
| ADR / RID: | HIN - Kemler: 90 | Limited Quantities: 5 L | Tunnel restriction code: (E) |
| IMDG: | Special Provision: - EMS: F-A, S-F | Limited Quantities: 5 L | |
| IATA: | Cargo: | Maximum quantity: 450 L | Packaging instructions: 964 |
| | Pass.: | Maximum quantity: 450 L | Packaging instructions: 964 |
| | Special Instructions: | A97, A158, A197 | |

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

Information not relevant.

SECTION 15. Regulatory information.

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

Seveso category. Direttiva 2012/18/CE: E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product Point. 3

Substances in Candidate List (Art. 59 REACH).

Based on available data, the product does not contain SVHC substances in excess of 0.1%..

Substances subject to authorisation (Annex XIV REACH).



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None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Workers exposed to this hazardous chemical agent must be subjected to health surveillance carried out in accordance with the provisions of art. 41 of Legislative Decree 81 of 9 April 2008, except that the risk to the safety and health of the worker has been considered irrelevant, in accordance with Art. 224, paragraph 2.

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

| | |
|-------------------|--|
| Flam. Liq. 3 | Flammable liquid, category 3 |
| Acute Tox. 4 | Acute toxicity, category 4 |
| Eye Irrit. 2 | Eye irritation, category 2 |
| Skin Irrit. 2 | Skin irritation, category 2 |
| Skin Sens. 1 | Skin sensitization, category 1 |
| Aquatic Acute 1 | Hazardous to the aquatic environment, acute toxicity, category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, chronic toxicity, category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H332 | Harmful if inhaled. |
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| 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. |

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labelling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods



**REFRIGERATORI PER FLUIDI
APPLICAZIONI FRIGORIFERE SPECIALI
FLUID COOLERS
SPECIAL COOLING APPLICATIONS**

AZIENDA CERTIFICATA



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- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY:

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EU) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
 4. Regulation (EU) 2015/830 of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
 11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - IFA GESTIS website
 - ECHA website
 - SDS template database of chemicals - Ministero della Salute e Istituto Superiore di Sanità

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Document changed compared to the previous version

Changes have been made to the following sections:

01 / 02 / 03 / 04 / 08 / 09 / 10 / 11 / 12 / 14 / 15.