

SAFETY DATA SHEET

According to EC regulations 1907/2006 (REACH), 1272/2008 (CLP) and 453/2010

Updated on: 30.10.2014

Cancels and replaces: 01.03.2012

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

1.1. Product identifier

Product Name **TESTOIL**
REACH Registration No. No required

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

Identified use(s): Acidity tests for refrigerating oils (refrigerating and air conditioning systems) - For professional use only.

Uses advised against: Nothing know

1.3. Details of the supplier of the safety data sheet

E-mail address of person responsible for the Safety Data Sheet

CARLY
Zone Industrielle de Braille - 69380 Lissieu - France
www.carly-sa.com - Telephone: +33 (0) 478 476 120 - Fax: +33 (0) 478 473 698
info@carly-sa.com

1.4. Emergency telephone number

Poison Centre
Emergency telephone - company

INRS - Telephone: 01 45 42 59 59 in France
+33 (0) 472 549 881 or +33 (0) 472 549 898 - Telephone numbers to be used only during the opening office hours from Monday to Friday.

SECTION 2: Hazards identification

The mixture is regulated according to Directive 1999/45/EC, their adaptations and annexes.

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments:

Flammable liquid, Category 2, H225.
Serious eye damage/eye irritation, Category 2, H319.
Specific target organ toxicity - Single exposure, Category 3, H336.
This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

In compliance with directives 1999/45/EC and their amendments:

F - Highly flammable
Xi - Irritant
Irritating to eyes and skin
Vapours may cause drowsiness and dizziness

2.2. Label elements

Hazard symbols



Signal Word

DANGER

Hazard statements

H225 - Highly flammable liquid and vapour
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness

Hazard Pictogram

Precautionary statements - General

P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.

Precautionary statements - Prevention

P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P233 - Keep container tightly closed.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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SECTION 2: Hazards identification (continued)

Label elements

Precautionary statements - Response

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice/attention.

Precautionary statements - Storage

P403 + P235 - Store in a well-ventilated place. Keep cool.

In compliance with directives 1999/45/EC and their amendments :

Warning statement



R Phrases

R11 - Highly flammable
R36/38 - Irritating to eyes and skin
R67 - Vapours may cause drowsiness and dizziness

S Phrases

S2 - Keep out of reach of children
S7 - Keep container tightly closed
S16 - Keep away from sources of ignition - No smoking
S24/25 - Avoid contact with skin and eyes
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S35 - This material and its container must be disposed of in a safe way

Special labelling of certain Preparations

Safety, health and environment classification are given by the following ingredients: Propan-2-ol.

Restricted to professional users

2.3. Other hazards

The mixture does not contain any substances classified as 'Substances of Very High Concern' (SVHC) by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>.

SECTION 3: Composition / Information on ingredients

3.2. Mixture

Chemical nature

Mixture of solvents and alkaline agents

EC Classification No. 1272/2008/EC

Hazardous ingredients	CAS No.	Index No.	CE No.	Hazard pictograms Hazard statement	REACH Regulation No.	% W/W
Propan-2-ol	67-63-0	603-117-00-0	200-661-7	Flammable liquids - category 2 - H225 Serious eye damage/eye irritation - category 2 - H319 Specific target organ toxicity - Single exposure - category 3 - H336	01-2119457558-25	70 - 100 %

See section 16 for the full text for the H-Phrases above.

EC Classification No. 67/548/EEC

Hazardous ingredients	CAS No.	Index No.	CE No.	Hazard pictograms Hazard statement	REACH Regulation No.	% W/W
Propan-2-ol	67-63-0	603-117-00-0	200-661-7	F - Flammable - R11 Xi - Irritant - R36 - R67	01-2119457558-25	70 - 100 %

See section 16 for the full text for the R-Phrases above.

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SECTION 4: First aid measures

In all case, where there is any doubt or if the symptoms persist, always consult a doctor.

- | | |
|--|---|
| 4.1. Description of first aid measures | Inhalation: If the person feels unwell, move the affected person to the fresh air.
Skin contact: Wash immediately with plenty of water.
Eye contact: Rinse immediately and thoroughly, pulling the eyelids well away from the eye, at least 10 minutes. If irritation persists, consult an ophtalmologist.
Ingestion: Rinse out mouth with water. NEVER attempt to induce vomiting. Keep the person quite and resting, call a doctor, and show him the packaging or the label. Never give an unconscious person anything to drink. |
| 4.2. Most important symptoms and effects, both acute and delayed | Inhalation: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Skin contact: There may be irritation and redness.
Eye contact: Eye irritation, Can cause redness, tearing, pain and weakness of vision.
Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. |
| 4.3. Indication of immediate medical attention and special treatment needed | Treat symptomatically. |

SECTION 5: Fire-fighting measures

- | | |
|---|--|
| 5.1. Extinguishing Media | Suitable Extinguishing Media: Water spray, specific powder, foam, carbon dioxide (CO ₂).
Unsuitable Extinguishing Media: High volume water jet. In case of fire, use extinguishing media appropriated to surrounding areas. |
| 5.2. Special hazards arising from the substance or mixture | Flammable product. |
| 5.3. Advice for fire-fighters | Special protection equipments: Do not attempt to fight the fire without suitable protective equipment. Self-contained breathing apparatus.
Additional indications: Cool down the containers exposed to heat with a water spray. Do not dispose of fire-fighting water in the environment. |

SECTION 6: Accidental release measures

- | | |
|---|---|
| 6.1. Personal precautions, protective equipment and emergency procedures | Do not breathe vapours.
Avoid contact with eyes and skin. Wear glasses and gloves (against chemical aggression) during the operation.
Eliminate all sources of ignition (flames, sparks) - Do not smoke. |
| 6.2. Environmental precautions | For a spillage contain the spilled material by bunding.
Do not discharge into drains and rivers.
Do not allow product to spread into the environment.
Eliminate as stipulated in current local and national laws. |
| 6.3. Methods and material for containment and cleaning up | Recovery: Use inert absorbent material.
Collect up the product and place it in a spare container correctly labeled.
Keep recovered product for subsequent disposal.

Absorb non-recoverable liquid with:
- dry sand
- saw-dust or an inert absorbent material
Do not discharge into drains or waterways without neutralizing.

Cleaning / decontamination: Wash with large amounts of water the contaminated area. |
| 6.4. Reference to other sections | Individual protection equipment: see section 8. |

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SECTION 7: Handling and storage

- 7.1. Precautions for safe handling** Ventilation. Use in well ventilated areas, lacking of flammings or other ignition sources. Do not smoke. Do not eat and drink during use. Do not swallow.
Always wash your hands immediately after handling this product, and once again before leaving the workplace.
- 7.2. Conditions for safe storage, including any incompatibilities** Store at between 5°C and 25°C in hermetically closed glasses.
Do not store near to strong oxidizing agents.
Do not store near to a source of heat or sparks. Do not expose to sunlight.
Store:
- in a hermetically closed container (Glass / Stainless steel)
- protected from sunlight, source of heat or sparks
- in cooled area (<25°C).

Storage life: stable under normal conditions.
Incompatible materials: Oxidizing agents.
Packaging materials not suitable: Plastic materials / Rubbers / Aluminium.
- 7.3. Specific end use(s)** Primarily used in testing the acidity of refrigerating oils
(Refrigeration and air - conditioning systems).

SECTION 8: Exposure controls / Personal protection

8.1. Control parameters

Occupational exposure limits

Propan-2-ol - CAS 67-63-0

France	VLCT-mg/m ³	VME-mg/m ³	VLE-ppm	VLE-mg/m ³
	-	2ppm-9.8	400	980

Derived no effect level (DNEL) or derived minimum effect level (DMEL)

Propan-2-ol - CAS 67-63-0

Final use:

Exposure method:
Potential health effects:
DNEL :
Exposure method:
Potential health effects:
DNEL :

Final use:

Exposure method:
Potential health effects:
DNEL :
Exposure method:
Potential health effects:
DNEL :
Exposure method:
Potential health effects:
DNEL :

Predicted no effect concentration (PNEC):

Propan-2-ol - CAS 67-63-0

Environmental compartment:
PNEC :
Environmental compartment:
PNEC :
Environmental compartment:
PNEC :
Environmental compartment:
PNEC :

Workers

Skin contact
Long-term - systemic effects
888 mg/kg body weight/day
Inhalation
Long-term - systemic effects
500 mg of substance/m³

Consumers

Skin contact
Long-term - systemic effects
319 mg/kg body weight/day
Inhalation
Long-term - systemic effects
89 mg of substance/m³
Ingestion
Long-term - systemic effects
26 mg/kg body weight/day

Soil
28 mg/kg
Fresh water
140.9 mg/l
Sea water
140.9 mg/l
Sediment
552 mg/kg

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SECTION 8: Exposure controls / Personal protection (continued)

Control parameters	Environmental compartment:	Sewage treatment plant (STP)
	PNEC :	2251 mg/l
	Environmental compartment:	Secondary poisoning related to, food
	PNEC :	160 mg/kg

8.2. Exposure controls

Technical measures of protection

The usual precautionary measures are to be adhered to when handling chemicals. Immediately remove all soiled and contaminated clothing. Wash hands before drinking, eating or smoking. Avoid contact with the eyes and skin. Wearing of Personal Protective Equipment (PPE) required for all persons with allergies.

Personal protective equipment

- Respiratory protection: If the ventilation is suitable, it is not essential to wear respiratory equipment. If the occupational exposure limit is exceeded: Mask with a filter device type A.
- Skin protection: Protective gloves are recommended
Nitrile-rubber, break through time ≥ 8 h, glove thickness 0.35mm
Butyl-rubber, break through time ≥ 8 h, glove thickness 0.50mm
Fluorocarbon-rubber, break through time ≥ 8 h, glove thickness 0.40mm.
- Eye/face protection: Safety goggles with waterproof side shields.
- Body protection: Suitable protective clothing.

Environmental exposure controls	Do not flush into surface water or sanitary sewer system.
	Avoid subsoil penetration.
	If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General information

Form	Liquide
Appearance	Clear
Colour	Purple
Odour	Characteristic (alcohol)
Odour threshold	No data available

Important information for health, safety and environment

pH at 20°C	Not applicable
Melting point (°C)	-89.5
Boiling point (°C)	82
Flash point (°C)	12 - 14
Evaporation rate	No data available
Solid/gas flammability (°C)	No data available
Explosive limit (% vol), lower	2% (v)
upper	12% (v)
Vapour pressure à 20°C	48 hPa
Relative vapour density (air=1)	2
Density altitude at 20°C	785 kg/m ³

Solubility in water	Completely miscible
Partition Coefficient (n-octanol/eau)	log Kow 0,05 (OECD Test Guideline 107) Literature value Propan-2-ol
Auto ignition temperature (°C)	425
Decomposition temperature	No data available
Viscosity (mPa.s) at 20°C	2.43

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SECTION 9: Physical and chemical properties (continued)

Information on basic physical and chemical properties

Explosive properties
Combustive properties

Not explosive
Not applicable

9.2. Other information

No other relevant Physico-Chemical properties are known about this mixture to the best of our knowledge at this time.

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions of storage and use (ambient temperature < 25°C).

10.3. Possibility of hazardous reactions

Exothermic reaction with strong acids.
Incompatibility with oxidizing agents

10.4. Conditions to avoid

Flames, sparks, high temperatures.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Possible mixture decomposition at high temperature: toxic smoke formation and carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substances: No toxicological data available for the substances.

Mixture:

We have no quantitative data about the mixture toxicity.

Acute toxicity

Propan-2-ol: DL50-oral-rat = 5840mg/kg (OECD 401) ;
CL50-inhalation-rat (vapour, 6h): >25mg/l (OECD 403) ;
DL50-skin-rabbit: 13900mg/kg (OECD 402).

Corrosion / Irritation

Propan-2-ol: Not irritating to skin-rabbit ; Irritating to eyes -rabbit (OECD 405).
Splashes in eyes may cause strong pain.

Sensitisation

Propan-2-ol: Does not cause skin sensitisation (OECD 406)
The ingredients of mixture, individually, have no sensitising properties.
Considering available data, the classification specifications are not fulfilled.

Carcinogenic, mutagenic or toxic to reproduction

The mixture and these ingredients, as far as we know, have no carcinogenic, mutagenic and reprotoxic effects. Considering available data, the classification specifications are not fulfilled.

Special toxicity to some organ targeted – unrepeatd or repeated exposure

Propan-2-ol, single exposure, inhalation: May cause drowsiness or dizziness.
Propan-2-ol, repeated exposure, inhalation: Oral and inhalation repeated exposure studies demonstrated target organ effects in male rats (kidney) and male and female mice (thyroid) by mechanisms of action that are not relevant to humans.
The mixture and these ingredients have reversible effects in the event of unrepeatd or repeated exposure.

Toxicological information

Aspiration hazard if swallowed - can enter lungs and cause damage. Aspiration may cause pulmonary oedema and pneumonitis.

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SECTION 12: Ecological information


- 12.1. Toxicity** We have no quantitative data about ecological effect of mixture.
Ecotoxic effects: Propan-2-ol:
CL50 (poissons, Pimephales promelas) - 96h : 9640mg/l
CL50 (Daphnie magna) - 24h : 9714mg/l
CE50 (algae, Scenedesmus subspicatus) - 72h : >100mg/l
CE10 (bacteria) : >100mg/l.
- 12.2. Persistence and degradability** Propan-2-ol: 95% after 21 days (OCDE 301E)
Persistence: No data available.
Biodegradability: 53% (Exposure time: 5 days). Readily biodegradable.
The mixture is biodegradable or easily biodegradable.
- 12.3. Bioaccumulative potential** Propan-2-ol: Bioaccumulation is not expected.
- 12.4. Mobility in soil** Propan-2-ol: Mobile in water-environment.
- 12.5. Results of PBT and vPvB assessment** Propan-2-ol: is not considered to be persistent, bioaccumulating, toxic (PBT) or very persistent very bioaccumulating (vPvB)
- 12.6. Other harmful effects** In case of manipulation and appropriate use, no ecological effect is feared for the mixture. Not spread a large quantity in natural waters, waste water or soil.

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods** **Product waste**
Chemical waste are special-waste and are regulated.
For the waste disposal, ask the authorities or contract out an approved company regarding disposal.
- Packaging**
Empty contaminated packaging thoroughly and carefully rinse, before recycling.
No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information

Mixture classified as dangerous for the transport, in compliance with provisions of the ADR (road) / RID (rail) / IMDG (sea) / IATA (air). TESTOIL: **Limited Quantity Exemption**. This product is packed in accordance with the Limited Quantity regulations.

- 14.1. UN number** UN1993
- 14.2. Proper Shipping Name** UN1993 - Flammable liquid n.o.s (Propan-2-ol)
- 14.3. Transport hazard class(es)**  ADR: Class 3 - Classification code: F1 - Label 3 - Hazard identification number: 33 - QL 1L - Cat 2 - Tunnel (D/E)
IMDG: Class 3 - Label 3
IATA: Class 3 - Label 3
- 14.4. Packing group** II
- 14.5. Environmental hazards** No
- 14.6. Special precautions for user** Not applicable
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable

The above regulatory prescriptions are those valid on the date of publication of this sheet.

However, given the possible evolution of transport regulations for hazardous materials, in case the present sheet is dating back to more than 12 months ago, it would be advisable to check their validity with your commercial agency.

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SECTION 15: Regulatory information

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

Classification and labelling information included in section 2:

The following regulations have been used:

- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EC and its adaptations
- Directive 75/734/CEE modified by directive 2013/10/UE
- Regulation EC 1272/2008 modified by regulation EC 618/2012

Container information:

No data available.

EU Authorizations and/or restrictions on use: Not Applicable.

Volatil Organic Components content (VOC):

Propan-2-ol : 100% (Directive 1999/13/EC)

15.2. Chemical safety assessment

No Chemical Safety Report realized for this mixture.

SECTION 16: Other information

Data sources:

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, amending and repealing directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

H-Statements used in Section 3

H225 - Highly flammable liquid and vapour

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

R-Phrases used in Section 3

R11 - Highly flammable

R36 - Irritating to eyes

R67 - Vapours may cause drowsiness and dizziness

Legend

VLE - Term Exposure Limit

VME - Medium Term Exposure Limit

VLCT - Short Term Exposure Limit

TWA - Time Weighted Average

STEL - Short Term Exposure Limit

LD50 - Lethal Dose, 50%

LC50 - Lethal Concentration, 50%

EC50 - Effective Concentration, 50 %

OECD - Organisation for Economic Co-operation and Development

PBT - Persistent, Bioaccumulative and Toxic

vPvB - very Persistent and very Bioaccumulative

DNEL - Derived No-Effect Level

PNEC - Predicted No-Effect Concentration

ADR - European agreement concerning the international carriage of dangerous goods by Road.

IMDG - International Maritime Dangerous Goods.

IATA - International Air Transport Association.

ICAO - International Civil Aviation Organisation

RID - Regulations concerning the International carriage of Dangerous goods by rail.

WGK - Wassergefährdungsklasse (Water Hazard Class).

Product for professional use only.

For more information regarding the use of this product please refer to the technical information or contact the sales department in your region.

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SECTION 16: Other information (continued)

Update

This sheet was updated (refer to the date at the top of the first page)

This Safety Data Sheet was updated in accordance with Directive 1999/45/EC and 1272/2010/EC, the regulation 453/2010/EU (amendment on Annex II of 1907/2006/EC) and their adaptations.

The following sections contain revisions or new statements: **2 - 3 - 4 - 5 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15.**

All information and instructions provided in this Material Safety Data Sheet is based on the current state of scientific and technical knowledge at the date indicated on the present MSDS, but does not constitute a guarantee of the properties of the product and is not a contractual legal report.

The safety data sheet has been written in conformity with the article 31 and the Annex II of the UE REACH regulation, and the amendments concerning the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances and mixtures.

It is the responsibility of persons in receipt of this MSDS to ensure that all people who may use, handle, dispose or in any way come in contact with the product understands this information.

This sheet completes the technical sheets but it does not replace them. The information given is based on our knowledge of this product. It is given in good faith. This document should not be considered as a guarantee of specifications. The users attention is drawn to the risks possibly incurred by using the product for any other purpose than that for which it was intended. This document does not in any way excuse the user from knowing and applying all the regulations governing his activity for the handling, usage, application, storage, transport, and waste disposal of the product. It is the sole responsibility of the user to take all precautions required in handling the product. The mandatory regulations mentioned are only intended to help the user to fulfill his obligations regarding the use of hazardous products. This listing must not be considered as exhaustive. It does not exonerate the user from ensuring that other legal obligations than those mentioned do not exist, relating to the use and storage of the product for which he solely is responsible.

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