

SAFETY DATA SHEET

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

Updated on: 01.03.2012

Cancels and replaces: 12.05.2011

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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)

Uses advised against: Nothing know

1.3. Details of the supplier of 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
E-mail address of person responsible for the Safety Data Sheet info@carly-sa.com

1.4. Emergency telephone number

Poison Centre INRS - Telephone: 01 45 42 59 59 in France
Emergency telephone - company +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

According to Directive 1999/45/EC:
F – Highly flammable
Xi – Irritant
Irritating to eyes and skin
Vapours may cause drowsiness and dizziness

2.2. Label elements

Warning statement

According to Directive 1999/45/EC:
Highly flammable
Irritant

Hazard Pictogram



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

Safety, health and environment classification are given by the following ingredients: Propan-2-ol and 3-butoxypropan-2-ol.

2.3. Other hazards

None to our knowledge.

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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.	EC No.	EINECS 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-xxxx	40 - 50 %
3-butoxypropan-2-ol	5131-66-8	603-052-00-8	225-878-4	Serious eye damage/eye irritation – category 2 – H319 Skin corrosion/irritation – category 2 – H315	01-2119475527-28-xxxx	50 - 60 %

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

EC Classification No. 67/548/EEC

Hazardous ingredients	CAS No.	EC No.	EINECS 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-xxxx	40 - 50 %
3-butoxypropan-2-ol	5131-66-8	603-052-00-8	225-878-4	Xi – Irritant – R36/38	01-2119475527-28-xxxx	50 - 60 %

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

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 ophthalmologist.

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: There may be irritation of the throat and be coughing.

Skin contact: There may be irritation and redness.

Eye contact: There may be irritation and redness.

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

No immediate medical attention and no particular treatment are required in case of exposure.

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SECTION 5: Fire-fighting measures

- 5.1. Extinguishing Media** Suitable Extinguishing Media: Water spray, specific powder, foam, carbon dioxide (CO₂).
Unsuitable Extinguishing Media: None. 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.

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.

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SECTION 7: Handling and storage (continued)

- 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

3-butoxypropan-2-ol – CAS 5131-66-8

No data available

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 or butyl)
- Eye/face protection: Safety goggles with waterproof side shields.
- Body protection: Suitable protective clothing.

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
Odour threshold	No data available

Important information for health, safety and environment

pH at 20°C	Not applicable
Melting point (°C)	< -80
Boiling point (°C)	> 80
Flash point (°C)	20 - 60
Evaporation rate	No data available
Solid/gas flammability (°C)	No data available
Explosive limit (% vol), lower upper	No data available
Vapour pressure à 20°C	2 – 40 kPa
Relative vapour density (air=1)	No data available
Density altitude at 20°C	820 kg/m ³
Solubility in water	Partially miscible
Partition Coefficient (n-octanol/eau)	No data available
Auto ignition temperature (°C)	> 260
Decomposition temperature	No data available
Viscosity (mPa.s) at 20°C	No data available

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SECTION 9: Physical and chemical properties (continued)

Information on basic physical and chemical properties	Explosive properties Combustive properties	No data available Not applicable
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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	No data available.
10.4. Conditions to avoid	Flames, sparks, high temperatures.
10.5. Incompatible materials	Heat reaction with strong acids. Incompatibility with oxidizing agents.
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 We have no quantitative data about the mixture toxicity.

Acute toxicity
Propan-2-ol: DL50-oral-rat = 5280mg/kg ; CL50-inhalation-rat (4h): 72.6mg/l ;
DL50-skin-rabbit: 12800mg/kg
3-butoxypropan-2-ol: DL50-oral-rat: 2700mg/kg – Not toxic. Can cause a gastronomic-intestinal irritation with strong doses.
CL50-inhalation-rat (4h): 651mg/l – Not toxic by inhalation. Can be irritant for eyes.
DL50-skin-rat: 2000mg/kg – Not toxic by skin contact. Very important exposures can cause hurts or systematic toxicity.

Corrosion / Irritation
Propan-2-ol: Not irritating to skin-rabbit ; Irritating to eyes -rabbit.
3-butoxypropan-2-ol: Irritating to eyes and skin.

Sensitisation
Propan-2-ol: No sensitising properties (Guinea pig, Buehler Test)
3-butoxypropan-2-ol: Not sensitizer.

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 knew, have no carcinogenic, mutagenic and reprotoxic effects. Considering available data, the classification specifications are not fulfilled.

Special toxicity to some organ targeted – unrepeated or repeated exposure
The mixture and these ingredients have reversible effects in the event of unrepeated or repeated exposure.

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SECTION 11: Toxicological information (continued)

Information on toxicological effects

Toxicological information

Irritating to eyes and skin (Can cause dermatological problems with repeated or prolonged contact with the skin).
On ingestion (in large quantities): Vomiting, digestive disorders.

SECTION 12: Ecological information

12.1. Toxicity

We have no quantitative data about ecological effect of mixture.

Ecotoxic effects:

Propan-2-ol:

CL50 (fish) – 96h: 9640mg/l ; CE50 (Daphnia) – 48h: 13299mg/l

CE50 (algua) – 72h: >1000mg/l ; CE10 (bacteria) – 18h: 5175mg/l

3-Butoxypropan-2-ol:

CL50 (fish: guppy) – 96h: 560 - 1000mg/l ; NOEC (fish: guppy) – 96h: 180mg/l → not harmful substance, not toxic for fish.

CE50 (Daphnia magna) – 48h: > 1000mg/l ; NOEC50 (Daphnia magna) – 48h: 560mg/l → not harmful substance, not toxic for aquatic invertebrates.

NOEC (algua Selenastrumm) – 96h: 560mg/l → not harmful substance, not toxic for algua or water plants.

CE10 (bacteria): no data available. The microbial toxicity must be low.

12.2. Persistence and degradability

Propan-2-ol: 95% after 21 days (OCDE 301E)

3-Butoxypropan-2-ol: 60-90% after 28 days – biodegradable substance - easily biodegradable substance.

The mixture is biodegradable or easily biodegradable.

12.3. Bioaccumulative potential

Propan-2-ol: Show no bioaccumulative.

3-Butoxypropan-2-ol: 3.2 – Show no bioaccumulative in body aquatic or ground.

12.4. Mobility in soil

Propan-2-ol: Moving in water-environment.

3-Butoxypropan-2-ol: substance very mobile in the ground with a very easy passage in the groundwaters, where it can be biodegradable.

12.5. Results of PBT and vPvB assessment

No data available for Propan-2-ol.

3-Butoxypropan-2-ol: Not classified as persistent, PBT or 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

Carefully rinse the empty packaging, before recycling.

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SECTION 14: Transport information

Mixture classified as dangerous for the transport.

14.1. UN number	UN1993
14.2. Proper Shipping Name	UN1993 – Flammable liquid n.o.s (Propan-2-ol ; 3-Butoxypropan-2-ol)
14.3. Transport hazard class(es)	ADR: Class 3 – Classification code: F1 - Label 3 – Hazard identification number: 33 IMDG: Class 3 – Label 3 IATA: Class 3 – Label 3
14.4. Packing group	II
14.5. Environmental hazards	Not applicable
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.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislations specific for the substance or mixture	EU Authorizations and/or restrictions on use: Not Applicable
15.2. Chemical safety assessment	No Chemical Safety Report realized for this mixture.

SECTION 16: Other information

H-Statements used in Section 3

H225 - Highly flammable liquid and vapour
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness

R-Phrases used in Section 3

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

Legend

VLE – Term Exposure Limit
VME – Medium Term Exposure Limit
VLCT – Short Term Exposure Limit

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SECTION 16: Other information (continued)

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

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.

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: 1 à 16.

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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