

# SAFETY DATA SHEET

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

Updated on: 01.03.2012

Cancels and replaces: 18.05.2011

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

### 1.1. Product identifier

Product Name **DETECTOIL-POE**  
REACH Registration No. No required

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

**Identified use(s):** Identification test for polyol-ester 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  
C - Corrosive  
Causes severe burns.  
Vapours may cause drowsiness and dizziness.

### 2.2. Label elements

Warning statement Highly flammable --- Corrosive

Hazard Pictogram



R Phrases

R11 - Highly flammable  
R35 - Causes severe burns  
R36 – Irritating to eyes  
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 sodium hydroxyde.

### 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 - 60 %
Sodium hydroxyde	1310-73-2	011-002-00-6	215-185-5	Skin corrosion/irritation – category 1A – H314	01-2119457892-27-xxxx	10 - 30 %

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 - 60 %
Hydroxide de sodium	1310-73-2	011-002-00-6	215-185-5	C – Corrosive – R35	01-2119457892-27-xxxx	10 - 30 %

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. Remove the contaminated clothes.  
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: 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 (CO<sub>2</sub>).  
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, acids, ammonium salts.  
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, organic peroxydes.  
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 to identify the polyol-ester 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 <sup>3</sup>	VME-mg/m <sup>3</sup>	VLE-ppm	VLE-mg/m <sup>3</sup>
	-	2ppm-9.8	400	980

Sodium hydroxide – CAS 1310-73-2

France	VLCT-mg/m <sup>3</sup>	VME-mg/m <sup>3</sup>	VLE-ppm	VLE-mg/m <sup>3</sup>
	-	2	-	-

### 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 (natural, butyl, fluor-rubber, polyisopren)
- 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 2 phases
Colour	Colourless / Purple
Odour	Characteristic
Odour threshold	No data available

#### Important information for health, safety and environment

pH at 20°C	>14 colourless phase
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	No data available
upper	No data available
Vapour pressure à 20°C	No data available
Relative vapour density (air=1)	No data available
Density altitude at 20°C	No data available
Solubility in water	Miscible
Partition Coefficient (n-octanol/eau)	No data available
Auto ignition temperature (°C)	> 425

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## SECTION 9: Physical and chemical properties (continued)

<b>Information on basic physical and chemical properties</b>	Decomposition temperature	No data available
	Viscosity (mPa.s) at 20°C	No data available
	Explosive properties	No data available
	Combustive properties	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

<b>10.1. Reactivity</b>	No dangerous reactions known under normal conditions of use.
<b>10.2. Chemical stability</b>	Stable under normal conditions of storage and use (ambient temperature < 25°C).
<b>10.3. Possibility of hazardous reactions</b>	No data available.
<b>10.4. Conditions to avoid</b>	Flames, sparks, high temperatures.
<b>10.5. Incompatible materials</b>	Heat reaction with strong acids. Incompatibility with light metals.
<b>10.6. Hazardous decomposition products</b>	Possible mixture decomposition at high temperature: toxic smoke formation and carbon oxides.

## SECTION 11: Toxicological information

<b>11.1. Information on toxicological effects</b>	We have no quantitative data about the mixture toxicity.
	<b>Acute toxicity</b>
	Propan-2-ol: DL50-oral-rat = 5280mg/kg ; CL50-inhalation-rat (4h): 72.6mg/l ; DL50-skin-rabbit: 12800mg/kg
	Sodium hydroxyde: DL50-oral-rat = 325mg/kg ; Inhalation: can cause pain, sneeze, respiratory problems.
	<b>Corrosion / Irritation</b>
	Propan-2-ol: Not irritating to skin-rabbit ; Irritating to eyes -rabbit. Sodium hydroxyde: Corrosive to skin. Risk of serious damage to eyes.
	<b>Sensitisation</b>
	Propan-2-ol: No sensitising properties (Guinea pig, Buehler Test) Sodium hydroxyde: Not sensitizer.
	The ingredients of mixture, individually, have no sensitising properties. Considering available data, the classification specifications are not fulfilled.
	<b>Carcinogenic, mutagenic or toxic to reproduction</b>
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.	
<b>Special toxicity to some organ targeted – unrepeated or repeated exposure</b>	
No data available.	

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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

Sodium hydroxyde:

CL50 (fish) – 96h : 125mg/l ; CE50 (Daphnia) – 24h : 76mg/l

CE50 (bacteria) – 15min : 22mg/l.

### 12.2. Persistence and degradability

Propan-2-ol: 95% after 21 days (OCDE 301E)  
Sodium hydroxyde: Not applicable to inorganic substances.  
The mixture is easily biodegradable.

### 12.3. Bioaccumulative potential

Propan-2-ol: Show no bioaccumulative.  
Sodium hydroxide: Show no bioaccumulative.

### 12.4. Mobility in soil

Propan-2-ol: Moving in water-environment.  
Sodium hydroxide: no data available.

### 12.5. Results of PBT and vPvB assessment

No data available for Propan-2-ol and sodium hydroxide.

### 12.6.

### 12.7. Other harmful effects

Harmful effects to aquatic organisms, with moving pH value.  
Do not empty into surface water or drains.

## 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.

## SECTION 14: Transport information

Mixture classified as dangerous for the transport.

### 14.1. UN number

UN2924

### 14.2. Proper Shipping Name

UN2924 – Flammable liquid, corrosive, n.o.s (Propan-2-ol ; alkali hydroxyde)

### 14.3. Transport hazard class(es)

ADR: Class 3 – Classification code: FC - Label 3+8 – Hazard identification number: 338  
IMDG: Class 3 – Label 3+8  
IATA: Class 3 – Label 3+8

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## SECTION 14: Transport information (continued)

- |  |                |
|--|----------------|
| 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  
H314 - Causes severe skin burns and eye damage  
H319 - Causes serious eye irritation  
H336 - May cause drowsiness or dizziness

### R-Phrases used in Section 3

R11 - Highly flammable  
R35 - Causes severe burns  
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

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## SECTION 16: Other information (continued)

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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