



DETECTOIL-POE

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue:

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Version: 7.0

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

1.1. Product identifier

Product form : Mixture
Product name. : DETECTOIL-POE

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

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Identification test for polyol-ester oils (refrigerating and air conditioning systems)

1.2.2. Uses advised against

No additional information available.

1.3. Details of the supplier of the safety data sheet

CARLY
ZI de Braille
69380 LISSIEU - FRANCE
T +33 (0)4 78 47 61 20 - F +33 (0)4 78 47 36 98
info@carly-sa.com

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
UNITED KINGDOM	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)
UNITED KINGDOM	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225
Skin Corr. 1A H314
STOT SE 3 H336

Full text of H-phrases: see section 16.

Adverse physicochemical, human health and environmental effects

No additional information available.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazardous ingredients :

2-propanol, sodium hydroxide

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapour
H314 - Causes severe skin burns and eye damage
H336 - May cause drowsiness or dizziness

Precautionary statements (CLP) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P264 - Wash Hands and forearms thoroughly after handling
P280 - Wear protective gloves, eye protection, face protection

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2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH, annex XIII.
This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable.

3.2. Mixture

Name	Product identifier	Specific concentration limits	
sodium hydroxide	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6 (REACH-no) 01-21194457892-27	(0,5 ≤ C < 2) Skin Irrit 2 - H315 ; Eye Irrit. 2 - H319 (2 ≤ C < 5) Skin Corr. 1B - H314 (C ≥ 5) Skin Corr. 1A - H314	
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-propanol	(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0 (REACH-no) 01-2119457558-25	40 - 60	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
sodium hydroxide	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6 (REACH-no) 01-21194457892-27	10 - 30	Skin Corr. 1A, H314

Full text of H-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove the victim into fresh air.
First-aid measures after skin contact : Wash immediately with lots of water. Soap may be used. Do not apply (chemical) neutralizing agents. Remove contaminated clothing.
First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Take victim to an ophthalmologist.
First-aid measures after ingestion : Rinse mouth with water. Do not induce vomiting. Immediately consult a doctor/medical service.

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

Symptoms/injuries after inhalation : Dizziness. Cough.
Symptoms/injuries after skin contact : Rednesses. Skin irritation. Burns.
Symptoms/injuries after eye contact : Corrosion of the eye tissue.
Symptoms/injuries after ingestion : Burns to the gastric/intestinal mucosa.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Alcohol-resistant foam. Dry chemical powder.
Unsuitable extinguishing media : High power water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : This product is flammable.
Hazardous decomposition products in case of fire : Carbon dioxide.

5.3. Advice for firefighters

Protection during firefighting : Wear respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : No naked flames. Prevent spreading in sewers. Ventilate affected area.

6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Neoprene or nitrile rubber gloves.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Goggles. Protective gloves.

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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Dam up the liquid spill.
Methods for cleaning up : Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water.

6.4. Reference to other sections

See Heading 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station.
Hygiene measures : Do no eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep away from ignition sources. Store in a closed container.
Incompatible products : strong acids.
Storage temperature : 5 - 25 °C
Heat and ignition sources : heat sources. ignition sources.
Storage area : Keep container tightly closed and in a well-ventilated place.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-propanol (67-63-0)		
United Kingdom	Local name	Propan-2-ol
United Kingdom	WEL TWA (mg/m ³)	999 mg/m ³
United Kingdom	WEL TWA (ppm)	400 ppm
United Kingdom	WEL STEL (mg/m ³)	1250 mg/m ³
United Kingdom	WEL STEL (ppm)	500 ppm
2-propanol (67-63-0)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	888 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	500 mg/m ³	
DNEL/DMEL (General population)		
Long-term - systemic effects, oral	26 mg/kg bodyweight/day	
Long-term - systemic effects, dermal	319 mg/kg bodyweight/day	
Long-term - local effects, inhalation	89 mg/m ³	
PNEC (Water)		
PNEC aqua (freshwater)	140,9 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	552 mg/kg dwt	
PNEC (Soil)		
PNEC soil	28 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	2251 mg/l	
sodium hydroxide (1310-73-2)		
Human exposure, for workers		
DNEL (Local effects) (mg/m ³)	1 mg/m ³ (Inhalation long-term toxicity)	
Human exposure, for the population		
DNEL (Local effects) (mg/m ³)	1 mg/m ³ (Inhalation long-term toxicity)	

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8.2. Exposure controls

Materials for protective clothing	: Wear suitable protective clothing
Hand protection	: Protective gloves made of rubber. latex, neoprene, nitrile
Eye protection	: Eye fountain. Wear safety glasses with side shields.
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Provide for sufficient ventilation and punctiform suction at critical points. High gas/vapour concentration: gas mask with filter type A



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid, two-phase solution
Appearance	: Clear
Colour	: Colourless and light violet (Function of phases)
Odour	: Characteristic odour
Odour threshold	: No data available
pH	: ≈ 14 (For the aqueous phase)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: < -80 °C
Freezing point	: No data available
Boiling point	: > 80 °C
Flash point	: < 10 °C (For the solvent phase)
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Soluble in water
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosion limits	: No data available

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts exothermically with (strong) acids.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

Open flame.

10.5. Incompatible materials

Aluminum, tin, zinc and its alloys, copper, lead...

10.6. Hazardous decomposition products

Thermal decomposition generates : Toxic vapours.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

2-propanol (67-63-0)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	73 mg/l/4h
LC50 inhalation rat (ppm)	2935 ppm/4h
sodium hydroxide (1310-73-2)	
LD50 dermal rabbit	1350 mg/kg
ATE dermal	1350,000 mg/kg

Skin corrosion/irritation : Causes severe skin burns and eye damage
pH: ≈ 14

Serious eye damage/irritation : Serious eye damage, category 1, implicit
pH: ≈ 14

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

2-propanol (67-63-0)	
LC50 fishes 1	4200 mg/l (96 h, RASBORA HETEROMORPHA, FLOW-THROUGH SYSTEM)
LC50 other aquatic organisms 1	4600 mg/l (24 h, DAPHNIA MAGNA)
EC50 Daphnia 1	> 10000 mg/l (48 h, DAPHNIA MAGNA)
EC50 other aquatic organisms 1	1800 mg/l (72 h, ALGAE, CELL NUMBERS)
LC50 fish 2	9640 mg/l (96 h, PIMEPHALES PROMELAS, FLOW-THROUGH SYSTEM)
LC50 other aquatic organisms 2	1099 mg/l (48 h, CRANGON CRANGON, STATIC SYSTEM)
EC50 Daphnia 2	13299 mg/l (48 h, DAPHNIA MAGNA)
EC50 other aquatic organisms 2	> 1000 mg/l (72 h, SCENEDESMUS SUBSPICATUS, GROWTH)
Threshold limit other aquatic organisms 1	141 mg/l (384 h, DAPHNIA MAGNA)
Threshold limit other aquatic organisms 2	1050 mg/l (16 h, PSEUDOMONAS PUTIDA, TOXICITY TEST)
Threshold limit algae 1	1800 mg/l (168 h, SCENEDESMUS QUADRICAUDA, TOXICITY TEST)
Threshold limit algae 2	1000 mg/l (192 h, MICROCYSTIS AERUGINOSA, TOXICITY TEST)
sodium hydroxide (1310-73-2)	
LC50 fishes 1	45,4 mg/l (96 h, SALMO GAIRDNERI/ ONCORHYNCHUS MYKISS, SOLUTION >=50%)
LC50 other aquatic organisms 1	33/100 (48 h, CRANGON CRANGON, SALT WATER)
LC50 fish 2	189 mg/l (48 h, LEUCISCUS IDUS)
LC50 other aquatic organisms 2	100 mg/l (48 h, DAPHNIA MAGNA, LETHAL)
TLM fish 1	99 mg/l (48 h, LEPOMIS MACROCHIRUS)
TLM fish 2	125 ppm (96 h, GAMBUSIA AFFINIS, FRESH WATER)

12.2. Persistence and degradability

2-propanol (67-63-0)	
Biochemical oxygen demand (BOD)	1,19 g O ₂ /g substance
Chemical oxygen demand (COD)	2,23 g O ₂ /g substance
ThOD	2,40 g O ₂ /g substance
BOD (% of ThOD)	49 % ThOD
sodium hydroxide (1310-73-2)	
Biochemical oxygen demand (BOD)	Not applicable (Inorganic substance)
Chemical oxygen demand (COD)	Not applicable (Inorganic substance)
ThOD	Not applicable (Inorganic substance)
BOD (% of ThOD)	Not applicable (Inorganic substance)

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12.3. Bioaccumulative potential

2-propanol (67-63-0)

Log Pow : 0,05 ; 25°C. Not bioaccumulation.

sodium hydroxide (1310-73-2)

Log Pow : Not applicable (Inorganic substance)

12.4. Mobility in soil

2-propanol (67-63-0)

Surface tension : 0,021 N/m (25°C)

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Sewage disposal recommendations : Avoid any discharge of the product into waste water.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

UN-No. (ADR) : 2924

UN-No.(IATA) : 2924

UN-No. (IMDG) : 2924

UN-No.(ADN) : 2924

14.2. UN proper shipping name

Proper Shipping Name (ADR) : .

Proper Shipping Name (IATA) : Flammable liquid, corrosive, n.o.s.

Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Proper Shipping Name (ADN) : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Transport document description (ADR) : UN 2924 . (CONTAINS sodium hydroxide ; 2-propanol), 3 (8), II, (D/E)

14.3. Transport hazard class(es)

Class (ADR) : 3

Classification code (ADR) : FC

Class (IATA) : 3

Class (IMDG) : 3

Class (ADN) : 3

Classification code (ADN) : FC

Subsidiary risk (ADR) : 8

Subsidiary risks (IMDG) : 8

Danger labels (ADR) : 3, 8



Hazard labels (IATA) : 3, 8



Danger labels (IMDG) : 3, 8



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Danger labels (ADN) : 3, 8



14.4. Packing group

Packing group (ADR) : II
Packing group (IATA) : I
Packing group (IMDG) : II
Packing group (ADN) : II

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 338
Classification code (ADR) : FC
Orange plates :



Special provision (ADR) : 274
Transport category (ADR) : 2
Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) : 1L
Excepted quantities (ADR) : E2
EAC code : •3WE
APP code : A(fl)

14.6.2. Transport by sea

Special provision (IMDG) : 274
Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T11
Tank special provisions (IMDG) : TP2, TP27
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-C
Stowage category (IMDG) : B
MFAG-No : 132

14.6.3. Air transport

CAO packing instructions (IATA) : 360
CAO max net quantity (IATA) : 2.5L
PCA packing instructions (IATA) : 350
PCA Limited quantities (IATA) : Forbidden
PCA limited quantity max net quantity (IATA) : Forbidden
PCA max net quantity (IATA) : 0.5L
PCA Excepted quantities (IATA) : E0
Special provision (IATA) : A3
ERG code (IATA) : 3CH

14.6.4. Inland waterway transport

Special provision (ADN) : 274
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2
Carriage permitted (ADN) : T

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Equipment required (ADN)	: PP, EP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
Carriage prohibited (ADN)	: No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions
Contains no REACH candidate substance
Contains no REACH Annex XIV substances.

Seveso Information : /

15.1.2. National regulations

No additional information available.

15.2. Chemical safety assessment

No additional information available.

SECTION 16: Other information

Indication of changes:

Hazards identification (Section 2) ; Composition/information on ingredients (Section 3) ; Exposure controls/personal protection (Section 8) ; Physical and chemical properties (Section 9) ; Stability and reactivity (Section 10) ; Toxicological information (Section 11) ; Ecological information (Section 12).

Full text of H-phrases:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

SDS (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.