

**COMMANDANT CM4T REINIGER M4 - 100ML - 1830598-006**

## **SAFETY DATA SHEET**

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

### **SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

#### **1.1. Product identifier**

Product name : COMMANDANT CM4T REINIGER M4 - 100ML

Product code : 1830598-006.

UFI : 18QS-5AJU-KV0X-7AE2

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

##### **Use descriptor system (REACH) :**

PC 35 : Washing and cleaning (including the solvent-based products)

#### **1.3. Details of the supplier of the safety data sheet**

Registered company name : SERVICE BEST INTERNATIONAL.

Address : De Run 4271.5503.LM Veldhoven.Netherland.

Telephone : +31 (0)4 02 30 23 00. Fax : +31 (0)4 02 30 23 02.

info@servicebest.com

www.servicebest.com

#### **1.4. Emergency telephone number : +33 (0)1 45 42 59 59.**

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

#### **Other emergency numbers**

United Kingdom emergency telephone number : 999

European emergency call : 112

### **SECTION 2 : HAZARDS IDENTIFICATION**

#### **2.1. Classification of the substance or mixture**

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

Eye irritation, Category 2 (Eye Irrit. 2, H319).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

#### **2.2. Label elements**

Detergent mixture (see section 15).

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

Hazard pictograms :



GHS07

Signal Word :

WARNING

Hazard statements :

H319 Causes serious eye irritation.

Precautionary statements - General :

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

Precautionary statements - Prevention :

P264 Wash hands thoroughly after handling.

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Precautionary statements - Response :

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 - Disposal :

P501

Dispose of empty or unused container to waste disposal or household waste in accordance with national regulations.

**2.3. Other hazards**

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annex XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances >= 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2. Mixtures**

**Composition :**

Identification	(EC) 1272/2008	Note	%
CAS: 1344-28-1 EC: 215-691-6 REACH: 01-2119529248-35		[1]	25 <= x % < 50
<b>ALUMINIUM OXIDE</b>			
EC: 926-141-6 REACH: 01-2119456620-43	GHS08 Dgr Asp. Tox. 1, H304 EUH:066		10 <= x % < 25
HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS		[1]	2.5 <= x % < 10
CAS: 57-55-6 EC: 200-338-0 REACH: 01-2119456809-23			
<b>PROPYLENE GLYCOL</b>			
CAS: 157627-86-6 EC: 500-337-8 REACH:	GHS07, GHS05 Dgr Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412		2.5 <= x % < 10
ALCOHOLS, C13-15, BRANCHED AND LINEAR, ETHOXYLATED			
CAS: 64-17-5 EC: 200-578-6 REACH: 01-2119457610-43	GHS07, GHS02 Dgr Flam. Liq. 2, H225 Eye Irrit. 2, H319	[1]	1 <= x % < 2.5
<b>ETHANOL</b>			
CAS: 1309-37-1 EC: 215-168-2 REACH: 01-2119457614-35		[1]	0 <= x % < 1
CI 77491			
CAS: 14808-60-7 EC: 238-878-4 REACH: Exempted Annex V.7		[1]	0 <= x % < 1
<b>QUARTZ (QUARTZ SAND)</b>			
CAS: 84-66-2 EC: 201-550-6 REACH: 01-2119486682-27		[1]	0 <= x % < 1
<b>DIETHYL PHTHALATE</b>			



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In the event of a fire, use :

- sprayed water or water mist
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO<sub>2</sub>)

**Unsuitable methods of extinction**

In the event of a fire, do not use :

- water jet

**5.2. Special hazards arising from the substance or mixture**

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters**

Cool containers / tanks with water spray.

Fold gas / fumes / mists with water spray.

**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

Spills or accidental release, notify relevant authorities in accordance with current regulations.

**6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

**For non first aid worker**

Avoid any contact with the skin and eyes.

Avoid spills or further leakage if possible without risk.

**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

**6.2. Environmental precautions**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

**6.3. Methods and material for containment and cleaning up**

Clean preferably with a detergent, do not use solvents.

**6.4. Reference to other sections**

See control measures against fire in Section 5.

See protective measures listed in sections 7 and 8.

**SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

**7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

**Fire prevention :**

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid eye contact with this mixture.

Packages which have been opened must be reclosed carefully and stored in an upright position.

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**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

**7.2. Conditions for safe storage, including any incompatibilities**

No data available.

**Storage**

Keep out of reach of children.

Keep the container tightly closed in a dry, well-ventilated place.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

**Packaging**

Always keep in packaging made of an identical material to the original.

**7.3. Specific end use(s)**

No data available.

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Occupational exposure limits :**

- European Union (2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

CAS	VME-mg/m <sup>3</sup>	VME-ppm	VLE-mg/m <sup>3</sup>	VLE-ppm	Notes
67-56-1	260	200	-	-	Peau

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA	STEL	Ceiling	Definition	Criteria
1344-28-1	10 mg/m <sup>3</sup>	-	-	-	-
64-17-5		1000 ppm		A3	
1309-37-1	5 mg/m <sup>3</sup>	-	-	-	-
14808-60-7	0.05 mg/m <sup>3</sup>	-	-	-	R
84-66-2	5 mg/m <sup>3</sup>			A4	
67-56-1	200 ppm	250 ppm		Skin; BEI	

- Belgium (Arrêté du 19/11/2020) :

CAS	TWA	STEL	Ceiling	Definition	Criteria
1344-28-1	1 mg/m <sup>3</sup>				
64-17-5	1000 ppm				
	1907 mg/m <sup>3</sup>				
1309-37-1	5 mg/m <sup>3</sup>				
14808-60-7	0.1 mg/m <sup>3</sup>			C	
84-66-2	5 mg/m <sup>3</sup>				
67-56-1	200 ppm	250 ppm		D	
	266 mg/m <sup>3</sup>	333 mg/m <sup>3</sup>			

- France (INRS - ED984 / 2020-1546) :

CAS	VME-ppm	VME-mg/m <sup>3</sup>	VLE-ppm	VLE-mg/m <sup>3</sup>	Notes	TMP No
1344-28-1	-	10	-	-	-	-
64-17-5	1000	1900	5000	9500	-	84
1309-37-1	-	5	-	-	-	44.44 Bis.94
14808-60-7	-	0.1 A	-	-	-	25
84-66-2	-	5	-	-	-	-
67-56-1	200	260	1000	1300	(12)	84

- Luxembourg (RGD 14/11/2016, Memorial A n°247 du 8 mars 2017) :

CAS	TWA	STEL	Ceiling	Definition	Criteria
67-56-1	200 ppm	- ppm		Peau	
	260 mg/m <sup>3</sup>	- mg/m <sup>3</sup>			

- Switzerland (SUVAPRO 2019) :

CAS	VME	VLE	Valeur plafond	Notations
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1344-28-1	3 ppm	24 mg/m <sup>3</sup>		
64-17-5	500 ppm 960 mg/m <sup>3</sup>	1000 mg/m <sup>3</sup> 1920 fc/m <sup>3</sup>		
1309-37-1	3 ppm			
14808-60-7	0.15 ppm			
84-66-2	5 ppm			
67-56-1	200 ppm 260 mg/m <sup>3</sup>	400 mg/m <sup>3</sup> 520 fc/m <sup>3</sup>		

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
1344-28-1	4 mg/m <sup>3</sup>				
57-55-6	10 mg/m <sup>3</sup>				
64-17-5	1000 ppm 1920 mg/m <sup>3</sup>				
1309-37-1	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	-	-	-
14808-60-7	0.3 mg/m <sup>3</sup>	-	-	-	R
84-66-2	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>			
67-56-1	200 ppm 266 mg/m <sup>3</sup>	250 ppm 333 mg/m <sup>3</sup>		Sk	

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

DIETHYL PHTHALATE (CAS: 84-66-2)

**Final use:**

Exposure method:

Potential health effects:

DNEL :

**Workers.**

Dermal contact.

Long term systemic effects.

1.5 mg/kg body weight/day

Exposure method:

Dermal contact.

Potential health effects:

Short term systemic effects.

DNEL :

7.5 mg/kg body weight/day

Exposure method:

Dermal contact.

Potential health effects:

Long term local effects.

DNEL :

0.0084 mg of substance/cm<sup>2</sup>

Exposure method:

Dermal contact.

Potential health effects:

Short term local effects.

DNEL :

0.017 mg of substance/cm<sup>2</sup>

Exposure method:

Inhalation.

Potential health effects:

Long term systemic effects.

DNEL :

10.56 mg of substance/m<sup>3</sup>

Exposure method:

Inhalation.

Potential health effects:

Short term systemic effects.

DNEL :

52.8 mg of substance/m<sup>3</sup>

Exposure method:

Inhalation.

Potential health effects:

Long term local effects.

DNEL :

10.56 mg of substance/m<sup>3</sup>

Exposure method:

Inhalation.

Potential health effects:

Short term local effects.

DNEL :

52.8 mg of substance/m<sup>3</sup>

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**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Consumers.**

Ingestion.  
Long term systemic effects.  
0.75 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Ingestion.  
Short term systemic effects.  
3.75 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Dermal contact.  
Long term systemic effects.  
0.75 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Dermal contact.  
Short term systemic effects.  
3.75 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Dermal contact.  
Long term local effects.  
0.0042 mg of substance/cm<sup>2</sup>

Exposure method:  
Potential health effects:  
DNEL :

Dermal contact.  
Short term systemic effects.  
0.0084 mg of substance/cm<sup>2</sup>

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
2.6 mg of substance/m<sup>3</sup>

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Short term systemic effects.  
13 mg of substance/m<sup>3</sup>

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term local effects.  
2.6 mg of substance/m<sup>3</sup>

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Short term local effects.  
13 mg of substance/m<sup>3</sup>

**CI 77491 (CAS: 1309-37-1)**

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Inhalation.  
Long term systemic effects.  
10 mg of substance/m<sup>3</sup>

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term local effects.  
10 mg of substance/m<sup>3</sup>

**ETHANOL (CAS: 64-17-5)**

**Final use:**

Exposure method:  
Potential health effects:

**Workers.**

Dermal contact.  
Long term systemic effects.

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DNEL : 343 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Short term local effects.

DNEL : 1900 mg of substance/m<sup>3</sup>

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL : 950 mg of substance/m<sup>3</sup>

**Final use:**

**Consumers.**

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL : 87 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL : 206 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Short term local effects.

DNEL : 950 mg of substance/m<sup>3</sup>

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL : 114 mg of substance/m<sup>3</sup>

**PROPYLENE GLYCOL (CAS: 57-55-6)**

**Final use:**

**Workers.**

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL : 168 mg of substance/m<sup>3</sup>

Exposure method: Inhalation.

Potential health effects: Long term local effects.

DNEL : 10 mg of substance/m<sup>3</sup>

**Final use:**

**Consumers.**

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL : 50 mg of substance/m<sup>3</sup>

Exposure method: Inhalation.

Potential health effects: Long term local effects.

DNEL : 10 mg of substance/m<sup>3</sup>

**Predicted no effect concentration (PNEC):**

**DIETHYL PHTHALATE (CAS: 84-66-2)**

Environmental compartment: Soil.

PNEC : 137 µg/kg

Environmental compartment: Fresh water.

PNEC : 12 µg/l

Environmental compartment: Sea water.

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PNEC :	1.2 µg/l
Environmental compartment: PNEC :	Intermittent waste water. 120 µg/l
Environmental compartment: PNEC :	Fresh water sediment. 137 µg/kg
Environmental compartment: PNEC :	Marine sediment. 13.7 µg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 2000 µg/l
Environmental compartment: PNEC :	Fresh water predators (oral). 33 µg/kg
Environmental compartment: PNEC :	Salt water predators (oral). 33 µg/kg
<b>ETHANOL (CAS: 64-17-5)</b>	
Environmental compartment: PNEC :	Soil. 0.63 mg/kg
Environmental compartment: PNEC :	Fresh water. 0.96 mg/l
Environmental compartment: PNEC :	Sea water. 0.79 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 2.75 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 3.6 mg/kg
Environmental compartment: PNEC :	Marine sediment. 2.9 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 580 mg/l

## 8.2. Exposure controls

### Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

#### - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

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Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

**- Hand protection**

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVA (Polyvinyl alcohol)

**- Body protection**

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

**Exposure controls linked to environmental protection**

See Section 6, 7, 12 and 13.

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

**Physical state**

Physical state : Paste.

**Odour**

Odour threshold : Not stated.

**Melting point**

Melting point/melting range : Not specified.

**Freezing point**

Freezing point / Freezing range : Not stated.

**Boiling point or initial boiling point and boiling range**

Boiling point/boiling range : Not specified.

**Flammability**

Flammability (solid, gas) : Not stated.

**Lower and upper explosion limit**

Explosive properties, lower explosivity limit (%) : Not stated.

Explosive properties, upper explosivity limit (%) : Not stated.

**Flash point**

Flash point interval : Not relevant.

**Auto-ignition temperature**

Self-ignition temperature : Not specified.

**Decomposition temperature**

Decomposition point/decomposition range : Not specified.

**pH**

pH : Not stated.

Neutral.

**Kinematic viscosity**

Viscosity : Not stated.

**Solubility**

Water solubility : Dilutable.

Fat solubility : Not stated.

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**Partition coefficient n-octanol/water (log value)**

Partition coefficient: n-octanol/water : Not stated.

**Vapour pressure**

Vapour pressure (50°C) : Not relevant.

**Density and/or relative density**

Density : 1280 g/L à 20°C

**Relative vapour density**

Vapour density : Not stated.

**9.2. Other information**

No data available.

**9.2.1. Information with regard to physical hazard classes**

No data available.

**Oxidising liquids**

Oxidising properties : Non comburant

**9.2.2. Other safety characteristics**

No data available.

**SECTION 10 : STABILITY AND REACTIVITY**

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

**10.4. Conditions to avoid**

Avoid :

- heat

Do not apply on hot surfaces

**10.5. Incompatible materials**

Do not mix with other chemicals

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO2)

**SECTION 11 : TOXICOLOGICAL INFORMATION**

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Splashes in the eyes may cause irritation and reversible damage

**11.1.1. Substances**

**Acute toxicity :**

DIETHYL PHTHALATE (CAS: 84-66-2)

Oral route :

LD50 = 9000 mg/kg

Species : Rat

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Inhalation route (Dusts/mist) : LC50 > 50 mg/l  
Species : Rat

ETHANOL (CAS: 64-17-5)  
Oral route : LD50 = 10470 mg/kg  
Species : Rat  
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 > 2000 mg/kg  
Species : Rabbit  
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Vapours) : LC50 = 51 mg/l  
OECD Guideline 403 (Acute Inhalation Toxicity)  
Duration of exposure : 4 h

ALCOHOLS, C13-15, BRANCHED AND LINEAR, ETHOXYLATED (CAS: 157627-86-6)  
Oral route : 300 < LD50 <= 2000 mg/kg  
Species : Rat  
Other guideline

HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS  
Oral route : LD50 > 5000 mg/kg  
Species : Rat  
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 > 5000 mg/kg  
Species : Rabbit  
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Vapours) : LC50 > 5000 mg/m<sup>3</sup>

**Skin corrosion/skin irritation :**

ALCOHOLS, C13-15, BRANCHED AND LINEAR, ETHOXYLATED (CAS: 157627-86-6)  
Corrosivity : No observed effect.  
Species : Rabbit  
Other guideline

Other guideline

**Serious damage to eyes/eye irritation :**

ETHANOL (CAS: 64-17-5)  
Causes serious eye irritation.  
Corneal haze : 1 <= Average score < 2 and effects totally reversible within 21 days of observation  
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Conjunctival redness : 2 <= Average score < 2.5 and effects totally reversible within 21 days of observation  
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

ALCOHOLS, C13-15, BRANCHED AND LINEAR, ETHOXYLATED (CAS: 157627-86-6)  
The substance produces at least in one animal  
effects on the cornea that are not expected to  
reverse or have not fully reversed within an  
observation period of normally 21 days.

Species : Rabbit

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Other guideline

**Germ cell mutagenicity :**

ETHANOL (CAS: 64-17-5)

No mutagenic effect.

HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS  
No mutagenic effect.

**Carcinogenicity :**

HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

Carcinogenicity Test :

Negative.

No carcinogenic effect.

**Reproductive toxicant :**

HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

No toxic effect for reproduction

**11.1.2. Mixture**

No toxicological data available for the mixture.

**SECTION 12 : ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**12.1.1. Substances**

ETHANOL (CAS: 64-17-5)

Fish toxicity :

LC50 = 13000 mg/l

Species : *Oncorhynchus mykiss*

Duration of exposure : 96 h

OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity :

EC50 = 12340 mg/l

Species : *Daphnia magna*

Duration of exposure : 48 h

Other guideline

Algae toxicity :

ECr50 = 275 mg/l

Species : *Chlorella vulgaris*

Duration of exposure : 72 h

OECD Guideline 201 (Alga, Growth Inhibition Test)

EC10 mg/l

Species : *Chlorella vulgaris*

Duration of exposure : 72 h

ALCOHOLS, C13-15, BRANCHED AND LINEAR, ETHOXYLATED (CAS: 157627-86-6)

Fish toxicity :

1 < LC50 <= 10 mg/l

Species : *Brachydanio rerio*

Duration of exposure : 96 h

Crustacean toxicity :

1 < EC50 <= 10 mg/l

Species : *Daphnia magna*

Duration of exposure : 48 h

0,1 < NOEC <= 1 mg/l

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Species : *Daphnia magna*

Algae toxicity :  $1 < EC_{50} \leq 10$  mg/l  
Species : *Scenedesmus subspicatus*  
Duration of exposure : 72 h

HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

Fish toxicity :  $LC_{50} > 1000$  mg/l  
Species : *Oncorhynchus mykiss*  
Duration of exposure : 96 h  
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity :  $EC_{50} > 1000$  mg/l  
Species : *Daphnia magna*  
Duration of exposure : 48 h  
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

$NOEC = 1.22$  mg/l  
Species : *Daphnia magna*  
Duration of exposure : 21 days  
Other guideline

Algae toxicity :  $EC_{50} > 1000$  mg/l  
Species : *Pseudokirchnerella subcapitata*  
Duration of exposure : 72 h  
OECD Guideline 201 (Alga, Growth Inhibition Test)

### 12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

### 12.2. Persistence and degradability

#### 12.2.1. Substances

DIETHYL PHTHALATE (CAS: 84-66-2)

Biodegradability : Rapidly degradable.

ETHANOL (CAS: 64-17-5)

Biodegradability : Rapidly degradable.

ALCOHOLS, C13-15, BRANCHED AND LINEAR, ETHOXYLATED (CAS: 157627-86-6)

Biodegradability : Rapidly degradable.

HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

Biodegradability : Rapidly degradable.

### 12.3. Bioaccumulative potential

#### 12.3.1. Substances

DIETHYL PHTHALATE (CAS: 84-66-2)

Octanol/water partition coefficient :  $\log K_{ow} = 2.2$

Bioaccumulation : BCF = 13.14

ETHANOL (CAS: 64-17-5)

Octanol/water partition coefficient :  $\log K_{ow} = -0.3$

Bioaccumulation : BCF = 0.66

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**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Endocrine disrupting properties**

No data available.

**12.7. Other adverse effects**

No data available.

**German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :**

WGK 1 : Slightly hazardous for water.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**Local arrangements :**

Disposal with household waste if the article has a point if not put eco-packaging waste at an approved waste facility.

**SECTION 14 : TRANSPORT INFORMATION**

Exempt from transport classification and labelling.

**14.1. UN number or ID number**

**14.2. UN proper shipping name**

**14.3. Transport hazard class(es)**

**14.4. Packing group**

**14.5. Environmental hazards**

**14.6. Special precautions for user**

**SECTION 15: Regulatory information**

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

**- Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/643 (ATP 16)
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/849 (ATP 17)

**- Container information:**

The mixture is contained in packaging that does not exceed 125 ml.

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**- Particular provisions :**

No data available.

**- Labelling for detergents (EC Regulation No. 648/2004,907/2006) :**

- less than 5 % : nonionic surfactants
- 5 % or over but less than 15 % : aliphatic hydrocarbons

**- German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :**

WGK 1 : Slightly hazardous for water.

**15.2. Chemical safety assessment**

No data available.

**SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

**Wording of the phrases mentioned in section 3 :**

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H370	Causes damage to organs .
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

**Abbreviations :**

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50 : The effective concentration of substance that causes 50% of the maximum response.

ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.

NOEC : The concentration with no observed effect.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE : Acute Toxicity Estimate

BW : Body Weight

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

UFI : Unique formulation identifier.

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TMP : French Occupational Illness table

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

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 : Wassergefahrdungsklasse (Water Hazard Class).

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GHS07 : Exclamation mark

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.