

## Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

#### 1.1. Product identifier

Code: **F82**  
 Product name: **SOLVOIL EXTRA**

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

Intended use: **Degreasing detergent with low alkalinity**

Identified Uses	Industrial	Professional	Consumer
Products for washing and cleaning	PROC: 10, 13, 19, 8a, 8b. PC: 35.	-	-
Products for washing and cleaning	-	PROC: 10, 11, 13, 19, 8a, 8b. PC: 35.	-

#### Uses Advised Against

None known

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

Name: **FIRMA SRL**  
 Full address: **VIA PER MODENA, 28**  
 District and Country: **42015 CORREGGIO (RE) IT**  
 Tel.: **0522 691880**  
 Fax: **0522 631277**

e-mail address of the competent person responsible for the Safety Data Sheet: **SDS@FIRMACHIMICA.IT**

Supplier: **FIRMA SRL**

#### 1.4. Emergency telephone number

For urgent inquiries refer to: **Tel. 0039 0522 691880 Office hours: 08.30 - 12.30, 14.00 - 18.00**  
**Tel. 0039 0522 036527 other times – laboratorio@firmachimica.it**

### SECTION 2. Hazards identification

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

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

#### Hazard classification and indication:

Skin corrosion, category 1A	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



**SECTION 2. Hazards identification** ... / >>

Signal words: Danger

Hazard statements:

**H314** Causes severe skin burns and eye damage.  
**H412** Harmful to aquatic life with long lasting effects.

Precautionary statements:

**P273** Avoid release to the environment.  
**P280** Wear protective gloves/ protective clothing / eye protection / face protection.  
**P302+P352** IN CASE OF CONTACT WITH SKIN: wash with plenty of water.  
**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P314** Get medical advice / attention if you feel unwell.

**Contains:** SODIUM METASILICATE  
SODIUM HYDROXIDE  
Cloruro di segotrimetilammonio

Ingredients according to Regulation (EC) No. 648/2004

Less than 5% cationic surfactants, non-ionic surfactants, EDTA (ethylenediaminetetraacetic acid) sodium salt  
dye  
perfumes, Limonene

**2.3. Other hazards**

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

**SECTION 3. Composition/information on ingredients**

**3.2. Mixtures**

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
<b>DIPROPYLENE GLYCOL MONOMETHYL ETHER</b>		
CAS 34590-94-8	$5 \leq x < 10$	Substance with a community workplace exposure limit.
EC 252-104-2		
INDEX		
REACH Reg. 01-2119450011-60		
<b>SODIUM METASILICATE</b>		
CAS 10213-79-3	$1 \leq x < 3$	Met. Corr. 1 H290, Skin Corr. 1A H314, Eye Dam. 1 H318, STOT SE 3 H335
EC 229-912-9		
INDEX 014-010-00-8		
REACH Reg. 01-2119449811-37		
<b>EDTA tetrasodico</b>		
CAS 64-02-8	$1 \leq x < 3$	Acute Tox. 4 H302, Eye Dam. 1 H318 LD50 Oral: >1780 mg/kg
EC 200-573-9		
INDEX		
REACH Reg. 01-2119486762-27		
<b>undecanolo lineare e ramificato etossilato &gt;2,5 OE</b>		
CAS	$1 \leq x < 3$	Acute Tox. 4 H302, Eye Dam. 1 H318 LD50 Oral: >300 mg/kg
EC 949-938-0		
INDEX		
REACH Reg. POLIMERO		
<b>Cloruro di segotrimetilammonio</b>		
CAS 68002-61-9	$1 \leq x < 2,5$	Acute Tox. 3 H311, Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1 LD50 Oral: >300 mg/kg, LD50 Dermal: >528 mg/kg
EC		
INDEX		

**SECTION 3. Composition/information on ingredients** ... / >>

REACH Reg. 01-2119970170-45

**PROPAN-2-OL**

CAS 67-63-0

 $0 \leq x < 1$ 

Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336

EC 200-661-7

INDEX 603-117-00-0

REACH Reg. 01-2119457558-25

**SODIUM HYDROXIDE**

CAS 1310-73-2

 $0,1 \leq x < 0,2$ 

Met. Corr. 1 H290, Skin Corr. 1A H314, Eye Dam. 1 H318

EC 215-185-5

Skin Corr. 1B H314:  $\geq 2\%$ , Skin Corr. 1C H314:  $\geq 0,5\%$ , Skin Irrit. 2 H315:  $\geq 0,1\%$ , Eye Dam. 1 H318:  $\geq 2\%$ , Eye Irrit. 2 H319:  $\geq 0,1\%$ 

INDEX 011-002-00-6

REACH Reg. 01-2119457892-27-xxxx

The full wording of hazard (H) phrases is given in section 16 of the sheet.

**SECTION 4. First aid measures****4.1. Description of first aid measures**

EYES: eliminate any contact lenses. Wash immediately with plenty of water for at least 30/60 minutes, opening the eyelids well. Consult a doctor immediately.

SKIN: wash immediately with water and rinse. Change clothes if necessary. If irritation persists or tissue damage occurs, consult a doctor. In case of skin irritation consult a doctor.

INGESTION: DO NOT induce vomiting. Consult a doctor immediately. Never give anything by mouth to an unconscious person or with cramps.

INHALATION: Call a doctor immediately. Bring the subject to fresh air, away from the accident site. If breathing stops, give artificial respiration. Take appropriate precautions for the rescuer.

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

Causes serious eye damage.

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

Information not available.

**SECTION 5. Firefighting measures****5.1. Extinguishing media**

SUITABLE EXTINGUISHING MEDIA: The extinguishing media are the traditional ones: carbon dioxide, foam and chemical powder. For leaks and spills of the product that have not ignited, the nebulized water can be used to disperse the flammable vapors and to protect the people involved in stopping the loss. NON-SUITABLE EXTINGUISHING MEDIA: Do not use water jets. Water is not effective for extinguishing the fire but it can be used to cool closed containers exposed to the flame, preventing bursts and explosions.

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

HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE: Avoid breathing combustion products: carbon oxides.

**5.3. Advice for firefighters**

GENERAL INFORMATION: Cool the containers with water jets to avoid decomposition of the product and the development of substances potentially hazardous for health. Wear, if necessary, complete fire protection equipment. Collect extinguishing water that must not be discharged into drains. Dispose of the contaminated water used for the fire extinguisher and the residue according to the regulations in force. EQUIPMENT: Not necessary for small fires. If necessary, wear fire-fighting clothing such as a fireproof suit (EN469), fireproof gloves (EN659) and boots for firefighters (HO A29 or A30) depending on the amount of product and any other materials involved in the fire.

**SECTION 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Stop the leak if there is no danger. Wear appropriate protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of the skin, eyes and personal clothing. These indications are valid both for workers involved in the work and for emergency interventions.

**6.2. Environmental precautions**

Prevent the product from entering sewers, surface waters, water tables.

### SECTION 6. Accidental release measures ... / >>

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

Vacuum the leaked product into a suitable container. Evaluate the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material. Ensure adequate ventilation of the area affected by the loss. Disposal of the contaminated material must be carried out in accordance with the provisions of point 13.

#### 6.4. Reference to other sections

Any information regarding personal protection and disposal is given in sections 8 and 13.

### SECTION 7. Handling and storage

#### 7.1. Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

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

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

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

See the exposure scenarios attached to this safety datasheet.

### SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

Regulatory References:

EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

#### SODIUM HYDROXIDE

##### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	

TLV-ACGIH 2

##### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic		Effects on workers			
	Acute	Acute	local	systemic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation			1				1	
			mg/m3				mg/m3	

**SECTION 8. Exposure controls/personal protection ... / >>**

### SODIUM METASILICATE

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	3				INHAL
OEL	EU	10				RESP

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	7,5	mg/l
Normal value in marine water	1	mg/l
Normal value for water, intermittent release	7,5	mg/l
Normal value of STP microorganisms	1000	mg/l

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,74 mg/kg bw/d				
Inhalation				1,55 mg/m3			6,22 mg/m3	
Skin				0,74 mg/kg bw/d			1,49 mg/kg bw/d	

### PROPAN-2-OL

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	492	200	983	400	

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	140,9	mg/l
Normal value in marine water	140,9	mg/l
Normal value for fresh water sediment	552	mg/kg
Normal value for marine water sediment	552	mg/kg
Normal value for water, intermittent release	140,9	mg/l
Normal value of STP microorganisms	2251	mg/l
Normal value for the food chain (secondary poisoning)	160	mg/kg
Normal value for the terrestrial compartment	28	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	26 mg/kg bw/d				
Inhalation			VND	89 mg/m3			VND	500 mg/m3
Skin			VND	319 mg/kg bw/d			VND	888 mg/kg bw/d

**SECTION 8. Exposure controls/personal protection ... / >>**

### DIPROPYLENE GLYCOL MONOMETHYL ETHER

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	308	50			

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	19	mg/l
Normal value in marine water	1,9	mg/l
Normal value for fresh water sediment	70,2	mg/kg
Normal value for marine water sediment	7,02	mg/kg
Normal value for water, intermittent release	190	mg/l
Normal value of STP microorganisms	4168	mg/l
Normal value for the terrestrial compartment	2,74	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers			Chronic local	Chronic systemic	Effects on workers		
	Acute local	Acute systemic	Chronic local			Acute systemic	Chronic local	Chronic systemic
Oral					36 mg/kg/d			
Inhalation					37,2 mg/m3			308 mg/m3
Skin					121 mg/kg/d			283 mg/kg bw/d

### Cloruro di segotrimetilammonio

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,00068	mg/l
Normal value in marine water	0,00006	mg/l
	8	
Normal value for fresh water sediment	9,57	mg/kg
Normal value for marine water sediment	0,957	mg/kg
Normal value of STP microorganisms	1,1	mg/l
Normal value for the terrestrial compartment	7	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers			Chronic local	Chronic systemic	Effects on workers		
	Acute local	Acute systemic	Chronic local			Acute systemic	Chronic local	Chronic systemic
Oral					2,83 mg/kg/d			
Inhalation					0,98 mg/m3		VND	3,32 mg/m3
Skin					2,83 mg/kg/d		VND	4,7 mg/kg/d

### EDTA tetrasodico

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	10				INHAL
OEL	EU	3				RESP

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	2,83	mg/l
Normal value in marine water	0,283	mg/l
Normal value for water, intermittent release	1,2	mg/l
Normal value of STP microorganisms	50	mg/l
Normal value for the terrestrial compartment	1,1	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers			Chronic local	Chronic systemic	Effects on workers		
	Acute local	Acute systemic	Chronic local			Acute systemic	Chronic local	Chronic systemic
Oral					25 mg/kg bw/d			
Inhalation	1,2 mg/m3			0,6 mg/m3		3 mg/m3	3 mg/m3	1,5 mg/m3

Legend:

### SECTION 8. Exposure controls/personal protection ... / >>

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.  
 VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

#### 8.2. Exposure controls

Comply with the safety measures usually applied when handling chemical substances.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

When choosing risk management measures and operating conditions, consult the exposure scenarios attached.

Provide an emergency shower with face and eye wash station.

##### HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

##### SKIN PROTECTION

Wear category III professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

It is advisable to wear a hooded visor or protective visor combined with airtight glasses in case splashing is expected (ref. Standard EN166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

Respiratory protection is not normally required. In any case, avoid inhalation of vapors, aerosols and gases. Use self-contained breathing apparatus or masks with filter type "A" during emergency operations. EN 141 gas / vapor filters. A respirator is not required under normal conditions of use and under the conditions for using the product. In case of insufficient ventilation and / or in the case of short or minimal exposure use the mask, wear an appropriate respirator (with filter type "A").

##### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

For information on controlling environmental exposure, see the exposure scenarios attached to this safety datasheet.

### SECTION 9. Physical and chemical properties

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

Properties	Value	Information
Appearance	liquid	
Colour	straw-coloured	
Odour	characteristic of solvent	
Melting point / freezing point	0 °C	Remark:Valore stimato sulla base delle caratteristiche chimico/fisiche dei costituenti
Initial boiling point	< 90 °C	Remark:Valore stimato sulla base delle caratteristiche chimico/fisiche dei costituenti
Flammability	not flammable	
Lower explosive limit	1,1 % (v/v)	Substance:DIPROPYLENE GLYCOL MONOMETHYL ETHER
Upper explosive limit	14 % (v/v)	Substance:DIPROPYLENE GLYCOL MONOMETHYL ETHER
Flash point	> 61 °C	Reason for missing data:miscela non esplosiva
Auto-ignition temperature	Not applicable	Substance:EDTA tetrasodico
Decomposition temperature	> 150 °C	Concentration: 100 %
pH	12,5	Temperature: 20 °C
Kinematic viscosity	10-20 mm <sup>2</sup> /s	Remark:Valore stimato sulla base delle caratteristiche chimico/fisiche dei costituenti
Dynamic viscosity	10-20 cP	Temperature: 20 °C Remark:Valore stimato sulla base delle caratteristiche chimico/fisiche dei costituenti
Solubility	completamente solubile in acqua	Temperature: 20 °C
Partition coefficient: n-octanol/water	>0	Method:log Kow Remark:valutazione di dati bibliografici
Vapour pressure	37,1 Pa	Temperature: 20 °C Substance:DIPROPYLENE GLYCOL MONOMETHYL ETHER

**SECTION 9. Physical and chemical properties** ... / >>

Density and/or relative density	1,038 g/cm <sup>3</sup>	Temperature: 25 °C
Relative vapour density	Not available	Temperature: 20 °C
Particle characteristics	Not applicable	

**9.2. Other information**

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Total solids (250°C / 482°F)	15,00 %	Temperature: 105 °C
VOC (Directive 2010/75/EU)	9,76 % - 101,33 g/litre	
Explosive properties	not explosive	
Oxidising properties	non ossidante	

**SECTION 10. Stability and reactivity**

In the absence of data relating to the preparation, the following information refers to the substances that make up the mixture.

**10.1. Reactivity**

Depending on the nature of the components, it is not considered that the product can react violently with other substances miscible with water. In any case, keep away from strongly reducing or oxidising compounds.

**SODIUM HYDROXIDE**

May corrode: metals.

Il contatto con acidi forti può provocare reazioni violente ed esplosioni. Potenziale pericolo per reazioni esotermiche. Potere corrosivo nei confronti dei metalli.

**PROPAN-2-OL**

It can react violently with oxidizing agents and strong acids.

**EDTA tetrasodico**

Decomposes above 150 °C.

**10.2. Chemical stability**

The product is stable in storage conditions and recommended use (see paragraph 7).

**SODIUM HYDROXIDE**

Stable in normal conditions of use and storage.

**SODIUM METASILICATE**

The product is stable in the storage conditions and one recommended.

**10.3. Possibility of hazardous reactions**

Under normal conditions of use and storage, no dangerous reactions are foreseeable.

**SODIUM HYDROXIDE**

Develops hydrogen on contact with: metals.

Develops heat on contact with: strong acids.

May react violently with: water.

Il contatto con acidi forti può provocare reazioni violente ed esplosioni. Potenziale pericolo per reazioni esotermiche. Potere corrosivo nei confronti dei metalli.

**SODIUM METASILICATE**

Reacts violently developing heat on contact with: acids.

**10.4. Conditions to avoid**

None in particular. Follow the usual precautions against chemicals.

**SODIUM HYDROXIDE**

Avoid exposure to: light.

Decomposes if exposed to: high temperatures.

Avoid exposure to: moisture.

**SODIUM HYDROXIDE:** exposure to the air, moisture and sources of heat.**SODIUM METASILICATE**

## SECTION 10. Stability and reactivity ... / >>

Hygroscopic product. Contact with water and humidity can cause agglomeration and hardening.

### 10.5. Incompatible materials

Do not store in metal containers.

#### SODIUM HYDROXIDE

Avoid contact with: metals, oxidising agents, water, aluminium, acids.

SODIUM HYDROXIDE: strong acids, ammonia, zinc, lead, aluminium, water and flammable liquids.

#### SODIUM METASILICATE

Avoid contact with aluminum, zinc, tin, copper and their alloys.

#### PROPAN-2-OL

Oxidizing agents, strong acids, chlorine-containing compounds, aldehydes, alkanolamines, alkaline and alkaline-earth metals (aluminum etc ...)

#### DIPROPYLENE GLYCOL MONOMETHYL ETHER

Avoid contact with: strong acids, strong bases, strong oxidising agents.

### 10.6. Hazardous decomposition products

In case of excessive heating the product may decompose liberating potentially toxic gases.

#### SODIUM HYDROXIDE

May develop: hydrogen.

Ossidi di sodio.

#### SODIUM METASILICATE

The product does not decompose if used according to the regulations.

#### PROPAN-2-OL

Carbon oxides. Formaldehyde.

## SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

#### Metabolism, toxicokinetics, mechanism of action and other information

Information not available

#### Information on likely routes of exposure

Information not available

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

#### Interactive effects

Information not available

#### ACUTE TOXICITY

ATE (Inhalation) of the mixture:

Not classified (no significant component)

ATE (Oral) of the mixture:

>2000 mg/kg

ATE (Dermal) of the mixture:

>2000 mg/kg

SODIUM HYDROXIDE

LD50 (Oral):

325 mg/kg

**SECTION 11. Toxicological information ... / >>**

<b>SODIUM METASILICATE</b>	
LD50 (Oral):	> 1152 mg/kg/dw Topo
LD50 (Dermal):	> 5000 mg/kg Ratto
LC50 (Inhalation mists/powders):	> 2,06 mg/l/4h Ratto
<b>PROPAN-2-OL</b>	
LD50 (Oral):	5840 mg/kg ratto
LD50 (Dermal):	13900 mg/kg ratto
LC50 (Inhalation vapours):	25000 mg/m3 ratto
<b>DIPROPYLENE GLYCOL MONOMETHYL ETHER</b>	
LD50 (Oral):	> 5000 mg/kg ratto
LD50 (Dermal):	> 9510 mg/l coniglio
LC50 (Inhalation vapours):	> 275 ppm/7h ratto
<b>Cloruro di segotrimetilammonio</b>	
LD50 (Oral):	> 300 mg/kg Ratto
LD50 (Dermal):	> 528 mg/kg Coniglio
<b>EDTA tetrasodico</b>	
LD50 (Oral):	> 1780 mg/kg ratto
LC50 (Inhalation vapours):	30 mg/m3/6h ratto
<b>undecanolo lineare e ramificato etossilato &gt;2,5 OE</b>	
LD50 (Oral):	> 300 mg/kg ratto
LD50 (Dermal):	> 2000 mg/kg coniglio

SKIN CORROSION / IRRITATION

Corrosive for the skin  
Classification according to the experimental Ph value

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

**SECTION 11. Toxicological information ... / >>**

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

EDTA tetrasodico  
Tratto respiratorio.

Route of exposure

EDTA tetrasodico  
inalazione.

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

**11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

**SECTION 12. Ecological information**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

**12.1. Toxicity****SODIUM HYDROXIDE**

LC50 - for Fish 189 mg/l/96h  
EC50 - for Crustacea 40,4 mg/l/48h Ceriodaphnia dubia

**SODIUM METASILICATE**

LC50 - for Fish 210 mg/l/96h Brachydanio rerio  
EC50 - for Crustacea 1700 mg/l/48h Daphnia magna  
EC50 - for Algae / Aquatic Plants 207 mg/l/72h Scenedesmus subspicatus

**PROPAN-2-OL**

LC50 - for Fish 9640 mg/l/96h Pimephales promelas  
EC50 - for Crustacea > 10000 mg/l 24h Daphnia Magna  
EC10 for Algae / Aquatic Plants 1800 mg/l/7 giorni Scenedesmus quadricauda

**DIPROPYLENE GLYCOL MONOMETHYL ETHER**

LC50 - for Fish > 1000 mg/l/96h Poecilia reticulata  
EC50 - for Crustacea 1919 mg/l/48h Daphnia magna  
EC50 - for Algae / Aquatic Plants > 969 mg/l/72h Selenastrum capricornutum  
Chronic NOEC for Algae / Aquatic Plants > 0,5 mg/l

**Cloruro di segotrimetilammonio**

LC50 - for Fish > 0,1 mg/l/96h  
EC50 - for Crustacea > 0,01 mg/l/48h  
EC50 - for Algae / Aquatic Plants > 0,01 mg/l/72h  
Chronic NOEC for Crustacea > 0,001 mg/l  
Chronic NOEC for Algae / Aquatic Plants > 0,1 mg/l

**SECTION 12. Ecological information ... / >>**

EDTA tetrasodico	
LC50 - for Fish	> 100 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	> 100 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h Pseudokirchneriella subcapitata
EC10 for Algae / Aquatic Plants	48,4 mg/l/72h Pseudokirchneriella subcapitata
Chronic NOEC for Fish	35,1 mg/l/21d Danio rerio
Chronic NOEC for Crustacea	25 mg/l/21d Daphnia magna

## undecanolo lineare e ramificato etossilato &gt;2,5 OE

LC50 - for Fish	> 1 mg/l/96h Cyprinus carpio
EC50 - for Crustacea	> 1 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 1 mg/l/72h Desmodesmus subspicatus
EC10 for Crustacea	2,6 mg/l/21d Daphnia magna
EC10 for Algae / Aquatic Plants	> 1 mg/l/72h Desmodesmus subspicatus

**12.2. Persistence and degradability**

SODIUM HYDROXIDE	
Solubility in water	100 g/100g H <sub>2</sub> O
Degradability: information not available	

SODIUM METASILICATE	
Solubility in water	210 g/l
Degradability: information not available	

PROPAN-2-OL	
Rapidly degradable	> 70% in 10 giorni

DIPROPYLENE GLYCOL MONOMETHYL ETHER	
Rapidly degradable	OECD 301 F

Cloruro di segotrimetilammonio	
Rapidly degradable	oecd 301D

EDTA tetrasodico	
Solubility in water	500 g/l 20°C
NOT rapidly degradable	OECD 301D

undecanolo lineare e ramificato etossilato >2,5 OE	
Rapidly degradable	>60%; 28d; aerobico OECD301B

**12.3. Bioaccumulative potential**

PROPAN-2-OL	
Partition coefficient: n-octanol/water	0,05 Log Kow

DIPROPYLENE GLYCOL MONOMETHYL ETHER	
Partition coefficient: n-octanol/water	0,004

**12.4. Mobility in soil**

Information not available

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

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

**12.6. Endocrine disrupting properties**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

**12.7. Other adverse effects**

Information not available



**SECTION 15. Regulatory information ... / >>**

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Regulation (EC) No. 648/2004

Ingredients according to Regulation (EC) No. 648/2004

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**15.2. Chemical safety assessment**

A chemical safety assessment has been performed for the following contained substances

SODIUM HYDROXIDE

SODIUM METASILICATE

PROPAN-2-OL

Cloruro di segotrimetilammonio

EDTA tetrasodico

**SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Flam. Liq. 2</b>	Flammable liquid, category 2
<b>Met. Corr. 1</b>	Substance or mixture corrosive to metals, category 1
<b>Acute Tox. 3</b>	Acute toxicity, category 3
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Skin Corr. 1A</b>	Skin corrosion, category 1A
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 1</b>	Hazardous to the aquatic environment, chronic toxicity, category 1
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H225</b>	Highly flammable liquid and vapour.
<b>H290</b>	May be corrosive to metals.
<b>H311</b>	Toxic in contact with skin.
<b>H302</b>	Harmful if swallowed.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H335</b>	May cause respiratory irritation.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.

Use descriptor system:

<b>PC</b> 35	Washing and cleaning products
<b>PROC</b> 10	Roller application or brushing
<b>PROC</b> 11	Non industrial spraying
<b>PROC</b> 13	Treatment of articles by dipping and pouring
<b>PROC</b> 19	Manual activities involving hand contact
<b>PROC</b> 8a	Transfer of substance or mixture (charging and discharging) at non- dedicated facilities
<b>PROC</b> 8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)

**SECTION 16. Other information ... / >>**

- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

**GENERAL BIBLIOGRAPHY**

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

**SECTION 16. Other information** ... / >>**CALCULATION METHODS FOR CLASSIFICATION**

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

02 / 03 / 08 / 09 / 10 / 11 / 12 / 15 / 16 / Exposure Scenarios.