

## 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: **411 00 21310**  
Product name: **FAP/DPF REGENERATION #2 PREMIUM**  
UFI: **9MA2-U1UN-340A-TFCC**

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

Intended use: **Rinsing liquid for internal particulate filters**

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

Name: **Meccanocar Italia S.r.l.**  
Full address: **Via San Francesco, 22**  
District and Country: **56033 Capannoli (PI)**  
**Italy**  
**Tel. +39 0587 609433**  
**Fax +39 0587 607145**

e-mail address of the competent person

responsible for the Safety Data Sheet  
Supplier: **moreno.meini@meccanocar.it**

**1.4. Emergency telephone number**

For urgent inquiries refer to **National Poisons Information Service: +44 121 507 4123**

### 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:

Substance or mixture corrosive to metals, category 1	H290	May be corrosive to metals.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.

**2.2. Label elements**

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

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Hazard pictograms:



Signal words: Danger

Hazard statements:

**H290** May be corrosive to metals.  
**H318** Causes serious eye damage.  
**H315** Causes skin irritation.

Precautionary statements:

**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P280** Wear protective gloves / eye protection / face protection.  
**P310** Immediately call a POISON CENTER / doctor.  
**P390** Absorb spillage to prevent material damage.

**Contains:** ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM  
 ALCOHOLS, C12-C14, ETHOXYLATES (> 2-5EO)  
 1-HYDROXYETHYLIDENE -1,1-DIPHOSPHONIC ACID  
 AMMONIA

Ingredients compliant with Regulation (EC) Nr. 648/2004

<5% Phosphonates; non-ionic surfactants.  
 >5% <15% Anionic surfactants; EDTA sodium salt; Scent; Citral; Citronellol; Geraniol; Hexyl Cinnamaldehyde; Limonene; Linalool.

**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>2-BUTOXYETHANOL</b>		
CAS 111-76-2	$18 \leq x < 19,5$	Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC 203-905-0		LD50 Oral: 615 mg/kg
INDEX 603-014-00-0		

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REACH Reg. 01-2119475108-36-XXXX

**ETHYLENDIAMMINOTETRAACETA  
TE OF TETRASODIUM**

CAS 64-02-8  $6 \leq x < 7$  Acute Tox. 4 H302, Acute Tox. 4 H332, STOT RE 2 H373, Eye Dam. 1 H318  
 EC 200-573-9 LD50 Oral: 1780 mg/kg, STA Inhalation mists/powders: 1,5 mg/l  
 INDEX 607-428-00-2

REACH Reg. 01-2119486762-27-XXXX

**ALCOHOLS, C12-C14,  
ETHOXYLATES (> 2-5EO)**

CAS 68439-50-9  $4,5 \leq x < 5$  Eye Dam. 1 H318  
 EC 931-014-3  
 INDEX -

**SODIUM P-CUMENSULPHONATE**

CAS 15763-76-5  $4,5 \leq x < 5$  Eye Irrit. 2 H319  
 EC 239-854-6  
 INDEX -

REACH Reg. 01-2119489411-37-XXXX

**1-HYDROXYETHYLIDENE -1,1-  
DIPHOSPHONIC ACID**

CAS 2809-21-4  $2,5 \leq x < 3$  Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335  
 EC 220-552-8 STA Oral: 500 mg/kg  
 INDEX -

**AMMONIA**

CAS 1336-21-6  $1,5 \leq x < 2$  Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Acute 1 H400 M=1, Classification note according to Annex VI to the CLP Regulation:  
 B  
 STOT SE 3 H335:  $\geq 5\%$   
 EC 215-647-6  
 INDEX 007-001-01-2

**GLICOL ETILENICO**

CAS 107-21-1  $0,9 \leq x < 1$  Acute Tox. 4 H302, STOT RE 2 H373  
 EC 203-473-3 STA Oral: 500 mg/kg  
 INDEX 603-027-00-1

REACH Reg. 01-2119456816-28-XXXX

**1-METHOXY-2-PROPANOL**

CAS 107-98-2  $0,8 \leq x < 0,9$  Flam. Liq. 3 H226, STOT SE 3 H336  
 EC 203-539-1  
 INDEX 603-064-00-3

REACH Reg. 01-2119457435-35-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: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical

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advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

**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 EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

**5.3. Advice for firefighters**

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**6.2. Environmental precautions**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder

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with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

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

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory References:

ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
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 2020

### 2-BUTOXYETHANOL

#### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP	98	20	245	50	SKIN
VLEP	FRA	49	10	246	50	SKIN
VLEP	ITA	98	20	246	50	SKIN
TLV	NOR	50	10			SKIN
VLE	PRT	98	20	246	50	SKIN
WEL	GBR	123	25	246	50	SKIN

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OEL	EU	98	20	246	50	SKIN
TLV-ACGIH		97	20			

Predicted no-effect concentration - PNEC						
Normal value in fresh water				8,8		mg/l
Normal value in marine water				0,88		mg/l
Normal value for fresh water sediment				34,6		mg/kg
Normal value for marine water sediment				3,46		mg/kg
Normal value of STP microorganisms				463		mg/l
Normal value for the food chain (secondary poisoning)				0,02		mg/kg
Normal value for the terrestrial compartment				2,33		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		26,7 mg/kg bw/d		6,3 mg/kg bw/d				
Inhalation	147 mg/m3	426 mg/m3		59 mg/m3	246 mg/m3			98 mg/m3
Skin		89 mg/kg/d		75 mg/kg bw/d		89 mg/kg bw/d		125 mg/kg bw/d

**ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM**

Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		2				
TLV-ACGIH		10				INHAL
TLV-ACGIH		3				RESP

Predicted no-effect concentration - PNEC						
Normal value in fresh water				2,2		mg/l
Normal value in marine water				0,22		mg/l
Normal value for water, intermittent release				1,2		mg/l
Normal value of STP microorganisms				43		mg/l
Normal value for the terrestrial compartment				0,72		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				25 mg/kg bw/d				
Inhalation		1,2 mg/m3		0,6 mg/m3		3 mg/m3		1,5 mg/m3

**SODIUM P-CUMENSULPHONATE**

Predicted no-effect concentration - PNEC						
Normal value in fresh water				0,23		mg/l
Normal value in marine water				0,023		mg/l
Normal value for fresh water sediment				0,862		mg/kg/d
Normal value for marine water sediment				0,086		mg/kg/d
Normal value of STP microorganisms				100		mg/l

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Normal value for the terrestrial compartment 0,037 mg/kg/d

**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				3,8 mg/kg bw/d				
Inhalation				6,6 mg/m3				26,9 mg/m3
Skin			0,048 mg/kg bw/d	68,1 mg/kg bw/d			0,096 mg/kg bw/d	136,25 mg/kg bw/d

**AMMONIA****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	14	20	36	50	

**GLICOL ETILENICO****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP	52	20	104	40	SKIN
VLEP	FRA	52	20	104	40	SKIN
VLEP	ITA	52	20	104	40	SKIN
TLV	NOR	52	20			SKIN
VLE	PRT	52	20	104	40	SKIN
WEL	GBR	52	20	104	40	SKIN
OEL	EU	52	20	104	40	SKIN
TLV-ACGIH			25		50	
TLV-ACGIH				10		INHAL

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	10	mg/l
Normal value in marine water	1	mg/l
Normal value for fresh water sediment	37	mg/kg
Normal value for marine water sediment	3,7	mg/kg
Normal value of STP microorganisms	199,5	mg/l
Normal value for the terrestrial compartment	1,53	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
Inhalation			7 mg/m3				35 mg/m3	
Skin				53 mg/kg bw/d				106 mg/kg bw/d

**1-METHOXY-2-PROPANOL****Threshold Limit Value**

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

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VLA	ESP	375	100	568	150	SKIN
VLEP	FRA	188	50	375	100	SKIN
VLEP	ITA	375	100	568	150	SKIN
TLV	NOR	180	50			SKIN
VLE	PRT	375	100	568	150	
WEL	GBR	375	100	560	150	SKIN
OEL	EU	375	100	568	150	SKIN
TLV-ACGIH		184	50	368	100	

Predicted no-effect concentration - PNEC						
Normal value in fresh water				10	mg/l	
Normal value in marine water				1	mg/l	
Normal value for fresh water sediment				52,3	mg/kg	
Normal value for marine water sediment				5,2	mg/kg	
Normal value of STP microorganisms				100	mg/l	
Normal value for the terrestrial compartment				4,59	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				33 mg/kg bw/d				
Inhalation				78 mg/m <sup>3</sup>	553,5 mg/m <sup>3</sup>	553,5 mg/m <sup>3</sup>		369 mg/m <sup>3</sup>
Skin				43,9 mg/kg bw/d				183 mg/kg bw/d

Legend:

(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

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.

Provide an emergency shower with face and eye wash station.

### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

### SKIN PROTECTION

Wear category II 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.

### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

**FAP/DPF REGENERATION #2 PREMIUM****RESPIRATORY PROTECTION**

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

**ENVIRONMENTAL EXPOSURE CONTROLS**

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

**ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM**

Suitable materials also with prolonged direct contact (Recommended: protection index 6, corresponding to > 480 minutes of breakthrough time according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinyl chloride (0.7 mm).

**SODIUM P-CUMENSULPHONATE**

gloves suitable for permanent contact:

Material: butyl rubber

Breakthrough time: > = 480 min

Material thickness: > = 0.7 mm

gloves suitable for splash protection:

Material: Nitrile Rubber / Nitrile Latex

Breakthrough time: > = 30 min

Material thickness: > = 0.4 mm

Eye protection Tightly fitting safety goggles:

Skin and body protection Protective suit

Hygiene measures Handle in accordance with good industrial hygiene and safety practices. Keep away from food, drink and pet food.

Protective measures Avoid contact with eyes. Wear suitable gloves and eye / face protection.

**1-METHOXY-2-PROPANOL**

Use chemical resistant gloves classified according to EN374: protective gloves against chemicals and microorganisms. Examples of preferred barrier material for gloves include: Butyl rubber. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable barrier materials for gloves include: Natural rubber ("latex"). Neoprene. Nitrile / butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. In case of prolonged or frequently repeated contact, a glove with a protection class of 5 or higher is recommended (breakthrough time greater than 240 minutes according to EN 374). When only brief contact is expected, a glove with a protection class of 1 or more is recommended (breakthrough time greater than 10 minutes according to EN 374). NOTICE: selection of a specific glove for a particular application and duration of use in a work environment should also take into account all relevant factors in the workplace such as, but not limited to: Other chemicals that can be handled, physical requirements (cut / puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as instructions / specifications provided by the glove supplier.

**SECTION 9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Properties	Value	Information
Appearance	liquid	
Colour	orange	
Odour	lemon	

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Melting point / freezing point	Not available
Initial boiling point	Not available
Flammability	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Flash point	> 60 °C
Auto-ignition temperature	Not available
pH	9,5
Kinematic viscosity	Not available
Solubility	soluble in water
Partition coefficient: n-octanol/water	Not available
Vapour pressure	Not available
Density and/or relative density	1
Relative vapour density	Not available
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

Information not available

**SECTION 10. Stability and reactivity****10.1. Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.

**2-BUTOXYETHANOL**

Decomposes under the effect of heat.

**1-HYDROXYETHYLIDENE -1,1-DIPHOSPHONIC ACID**

Decomposes at temperatures above 200°C/392°F.

**AMMONIA**

Corrodes: aluminium, iron, zinc, copper, copper alloys.

**GLICOL ETILENICO**

In the air absorbs moisture. Decomposes at temperatures above 200°C/392°F.

**1-METHOXY-2-PROPANOL**

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Dissolves various plastic materials. Stable in normal conditions of use and storage.

Absorbs and dissolves in water and in organic solvents. With air it may slowly form explosive peroxides.

**10.2. Chemical stability**

The product is stable in normal conditions of use and storage.

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

Decomposition temperature > 150 ° C

**10.3. Possibility of hazardous reactions**

No hazardous reactions are foreseeable in normal conditions of use and storage.

2-BUTOXYETHANOL

May react dangerously with: aluminium, oxidising agents. Forms peroxides with: air.

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

It can corrode metals in the presence of water or moisture

AMMONIA

Risk of explosion on contact with: strong acids, iodine. May react dangerously with: strong bases.

GLICOL ETILENICO

Risk of explosion on contact with: perchloric acid. May react dangerously with: chlorosulphuric acid, sodium hydroxide, sulphuric acid, phosphorus pentasulphide, chromium (III) oxide, chromyl chloride, potassium perchlorate, potassium dichromate, sodium peroxide, aluminium. Forms explosive mixtures with: air.

1-METHOXY-2-PROPANOL

May react dangerously with: strong oxidising agents, strong acids.

**10.4. Conditions to avoid**

None in particular. However the usual precautions used for chemical products should be respected.

2-BUTOXYETHANOL

Avoid exposure to: sources of heat, naked flames.

High temperatures and sources of ignition. Prolonged exposure with air / oxygen and light.

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GLICOL ETILENICO

Avoid exposure to: sources of heat,naked flames.

1-METHOXY-2-PROPANOL

Avoid exposure to: air.

Do not distill to dryness. The product can oxidize at high temperatures. The generation of gas during decomposition can cause pressure in closed systems.

**10.5. Incompatible materials**

2-BUTOXYETHANOL

Oxidizing agents.

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

Oxidizing agents, amphoteric metals and light metals

1-HYDROXYETHYLIDENE -1,1-DIPHOSPHONIC ACID

Incompatible with: strong oxidants,strong bases.

AMMONIA

Incompatible with: silver,silver salts,lead,lead salts,zinc,zinc salts,hydrochloric acid,nitric acid,oleum,halogens,acrolein,nitromethane,acrylic acid.

1-METHOXY-2-PROPANOL

Incompatible with: oxidising substances,strong acids,alkaline metals.

Avoid contact with: strong acids. Strong bases. Strong oxidants.

**10.6. Hazardous decomposition products**

2-BUTOXYETHANOL

May develop: hydrogen.

Carbon oxides.

1-HYDROXYETHYLIDENE -1,1-DIPHOSPHONIC ACID

May develop: phosphine,phosphoric acid,phosphoryl oxides.

AMMONIA

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May develop: nitric oxide.

GLICOL ETILENICO

May develop: hydroxyacetaldehyde, glyoxal, acetaldehyde, methane, carbon monoxide, hydrogen.

1-METHOXY-2-PROPANOL

Decomposition products depend on temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Aldehydes. Ketones. Organic acids.

## SECTION 11. Toxicological information

### 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

GLICOL ETILENICO

WORKERS: inhalation; contact with the skin.

POPULATION: room air inhalation; skin contact with products containing the substance.

1-METHOXY-2-PROPANOL

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

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

GLICOL ETILENICO

By ingestion it initially stimulates the central nervous system; subsequently a phase of depression takes over. Kidney damage can occur, with anuria and uremia. The symptoms of overexposure are: vomiting, drowsiness, difficult breathing, convulsions. The lethal dose for humans is approximately 1.4 ml / kg.

1-METHOXY-2-PROPANOL

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product. Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported.

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Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture:	> 5 mg/l
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	Not classified (no significant component)

## 2-BUTOXYETHANOL

LD50 (Oral):	615 mg/kg Rat
LD50 (Dermal):	405 mg/kg Rabbit
LC50 (Inhalation vapours):	2,2 mg/l/4h Rat

## ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

LD50 (Oral):	1780 mg/kg Ratto (equivalente o similare a OECD 401)
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## SODIUM P-CUMENSULPHONATE

LD50 (Oral):	> 7000 mg/kg
LD50 (Dermal):	> 2000 mg/kg
LC50 (Inhalation mists/powders):	> 6,41 mg/l/4h

## 1-HYDROXYETHYLIDENE -1,1-DIPHOSPHONIC ACID

STA (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
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## AMMONIA

LD50 (Oral):	350 mg/kg Rat
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## GLICOL ETILENICO

STA (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
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## 2-BUTOXYETHANOL

Method: OECD 401

Reliability: 1

Species: guinea pig (Hartley; male / female)

Route of exposure: Oral

Results: LD50 = 1414 mg / kg bw

Method: CFR title 49, section 173.132

Reliability: 2

Species: Guinea pig (Dunkin-Hartley; male / female)

Route of exposure: Inhalation (vapor)

Results: Not classified

Method: OECD 402

Reliability: 1

Species: guinea pig (Hartley; male / female)

**FAP/DPF REGENERATION #2 PREMIUM**

Route of exposure: Dermal  
Results: Not classified

**ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM**

Method: equivalent or similar to OECD 401

Reliability: 2

Species: Rat (Wistar; male / female)

Route of exposure: oral

Results: LD50 = 1780 mg / kg

Method: OECD 412

Reliability: 1

Species: Rat (wistar; male)

Route of exposure: inhalation (aerosol)

Results: harmful by inhalation

**GLICOL ETILENICO**

Method: Not indicated

Reliability: 2

Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Oral

Results: LD50 = 7712 mg / kg bw

Method: Not indicated

Reliability: 2

Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Inhalation (aerosol)

Results: LC50> 2.5 mg / L air

Bibliographic reference: Evaluation of the Developmental Toxicity of Ethylene Glycol Aerosol in the CD Rat and CD-1 Mouse by Whole-Body Exposure, Tyl RW, Ballantyne B, Fisher LC, Fait DL, Savine TA, Dodd DE, Klonne DR, Pritts IM (1995)

Method: Not indicated

Reliability: 2

Species: Mouse (CD-1; male / female)

Route of exposure: Dermal

Results: LD50> 3500 mg / kg bw

Bibliographic reference: Assessment of the Developmental Toxicity of Ethylene Glycol Applied Cutaneously to CD-1 Mice, Tyl RW, Fisher LC, Kubena MF, Vrbanic MA, Losco PE (1995)

**1-METHOXY-2-PROPANOL**

Method: EU Method B.1

Reliability: 1

Species: Rat (Fischer 344; male / female)

Route of exposure: Oral

Results: LD50 = 3739 mg / kg bw

Method: Equivalent or similar to OECD 403

Reliability: 1

Species: Rat (Fischer 344; male / female)

Route of exposure: Inhalation (vapors)

Results: Not classified

Method: Equivalent or similar to EU Method B.3

Reliability: 1

Species: Rat (Fischer 344; male / female)

Route of exposure: Dermal

Results: LD50> 2000 mg / kg bw

**SKIN CORROSION / IRRITATION**

Causes skin irritation

**FAP/DPF REGENERATION #2 PREMIUM****2-BUTOXYETHANOL**

Method: EU Method B.4

Reliability: 2

Species: Rabbit (New Zealand white; male / female)

Route of exposure: Dermal

Results: Irritating

Bibliographic reference: Jacobs G, Martens M, Mosselmans G, Proposal of limit concentrations for skin irritation within the context of a new EEC directive on the classification and labeling of preparations. (1987)

**ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM**

Method: OECD 404

Reliability: 1

Species: Rabbit (Vienna White)

Route of exposure: cutaneous

Results: not irritating

**SODIUM P-CUMENSULPHONATE**

Method: As described in the U.S. Federal Register Vol. 38, No. 187, Section 1500: 41, 1973

Reliability: 2

Species: rabbit

Route of exposure: cutaneous

Results: mildly irritating

**GLICOL ETILENICO**

Method: Not indicated

Reliability: 2

Species: Rabbit (Vienna White)

Route of exposure: Dermal

Results: Not classified

**1-METHOXY-2-PROPANOL**

Method: Equivalent or similar to EU Method B.4

Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Dermal

Results: Not irritating

**SERIOUS EYE DAMAGE / IRRITATION**

Causes serious eye damage

**2-BUTOXYETHANOL**

Method: OECD 405

Reliability: 1

Species: Rabbit (New Zealand white; male / female)

Route of exposure: Ocular

Results: Irritating

**ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM**

Method: equivalent or similar to OECD 405

**FAP/DPF REGENERATION #2 PREMIUM**

Reliability: 2  
Species: Rabbit (Vienna White)  
Route of exposure: ocular  
Results: causes serious eye damage (Harmonized classification, Annex VI, CLP Reg.)

GLICOL ETILENICO  
Method: Not indicated  
Reliability: 2  
Species: Rabbit (Vienna White)  
Route of exposure: Ocular  
Results: Not classified

1-METHOXY-2-PROPANOL  
Method: Equivalent or similar to EU Method B.5  
Reliability: 1  
Species: Rabbit (New Zealand White)  
Route of exposure: Ocular  
Results: Not irritating

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

2-BUTOXYETHANOL  
Method: OECD 406  
Reliability: 1  
Species: Guinea pig (Dunkin-Hartley; male / female)  
Route of exposure: Dermal  
Results: Not sensitizing  
Method: Equivalent or similar to OECD 474-Test in vivo  
Reliability: 1  
Species: Mouse (B6C3F1)  
Results: Negative

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM  
Method: OECD 406 - Read across  
Reliability: 1  
Species: guinea pig (Hartley; female)  
Route of exposure: cutaneous  
Results: non sensitizing

1-METHOXY-2-PROPANOL  
Method: Equivalent or similar to EU Method B.6  
Reliability: 1  
Species: guinea pig (male / female)  
Route of exposure: Dermal  
Results: Not sensitizing

Respiratory sensitization

**FAP/DPF REGENERATION #2 PREMIUM**

Information not available

Skin sensitization**SODIUM P-CUMENSULPHONATE**

Method: OECD Guideline 406

Reliability: 1

Species: guinea pig

Route of exposure: cutaneous

Results: not sensitizing

**GLICOL ETILENICO**

Method: Not indicated

Reliability: 2

Species: guinea pig (Dunkin-Hartley; male / female)

Route of exposure: Dermal

Results: Not classified

Bibliographic reference: Evaluation of Skin Irritation and Sensitization of Two Diol Solutions used as Experimental Dentin Primers in Humans and Guinea Pigs, Kurihara A, Manabe A, Katsuno K, Itoh K, Hismitsu H, Wakumoto S, Yoshida T (1996)

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

**2-BUTOXYETHANOL**

Method: Equivalent or similar to OECD 471 in vitro test

Reliability: 1

Species: S. typhimurium TA 1535

Results: negative

Bibliographic reference:

Method: Equivalent or similar to OECD 474-Test in vivo

Reliability: 1

Species: Mouse (B6C3F1)

Results: Negative

**ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM**

Method: equivalent or similar to 471 - In vitro test

Reliability: 2

Species: S. typhimurium, E.Coli

Results: negative with and without metabolic activation

Method: OECD 474 - in vivo test

Reliability: 1

Species: Mouse (NMRI; male)

Route of exposure: oral

Results: negative.

**SODIUM P-CUMENSULPHONATE**

Method: OECD Guideline 474-in vivo test

Reliability: 1

Species: mouse

**FAP/DPF REGENERATION #2 PREMIUM**

Route of exposure: oral  
Results: negative

**GLICOL ETILENICO**

Method: OECD 471 in vitro test

Reliability: 1

Species: *S. typhimurium*

Results: Negative with and without metabolic activation

Method: Not indicated - in vivo test

Reliability: 2

Species: Rat (Fischer 344; male / female)

Route of exposure: Oral

Results: Negative

**1-METHOXY-2-PROPANOL**

Method: Equivalent or similar to OECD 471 in vitro test

Reliability: 1

Species: *S. typhimurium*

Results: Negative with and without metabolic activation

Method: Equivalent or similar to OECD 474 in vivo test

Reliability: 2

Species: Mouse (CD-1; male / female)

Route of exposure: Intraperitoneal

Results: Negative

**CARCINOGENICITY**

Does not meet the classification criteria for this hazard class

**ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM**

Method: study report (1977)

Reliability: 2

Species: Mouse (B6C3F1; male / female)

Route of exposure: oral

Results: negative. NOAEL (carcinogenicity) = 938 mg / kg bw / day

**SODIUM P-CUMENSULPHONATE**

Method: OECD Guideline 453

Reliability: 2

Species: mouse

Route of exposure: cutaneous

Results: NOAEL> = 727 mg / kg bw / day

**GLICOL ETILENICO**

The available studies have not shown carcinogenic power. In a 2-year carcinogenicity study, conducted by the US National Toxicology Program (NTP), in which ethylene glycol was administered in feeding, "no evidence of carcinogenic activity" was observed in male and female B6C3F1 mice (NTP, 1993).

**1-METHOXY-2-PROPANOL**

Method: OECD 453

Reliability: 1

Species: Rat (Fischer 344; male / female)

**FAP/DPF REGENERATION #2 PREMIUM**

Route of exposure: Inhalation (vapors)  
Results: Negative

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

**2-BUTOXYETHANOL**

Method: Not indicated

Reliability: 1

Species: Mouse (CD-1; male / female)

Route of exposure: Oral

Results: NOAEL = 720 mg / kg bw / day

Bibliographic reference: Heindel JJ, Gulati DK, Russel VS, Reel JR, Lawton AD and Lamb JC, Assessment of Ethylene Glycol Monobutyl and monophenol Ether reproductive toxicity using a continuous breeding protocol in Swiss CD-1 mice (1990).

**ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM**

Method: Not indicated

Reliability: 2

Species: Rat (Wistar; male / female)

Route of exposure: oral

Results: negative. NOAEL (reproduction) > = 250 mg / kg body weight / day

Bibliographic reference: Oser, B.L. et al., Toxicology and applied pharmacology (1963)

Method: not indicated

Reliability: 2

Species: Rat (Albino)

Route of exposure: oral

Results: negative. NOAEL (development, fetus) > = 1 374 mg / kg body weight / day

Bibliographic reference: Schardein, J.L. et al., Toxicology and Applied Pharmacology (1981)

Adverse effects on sexual function and fertility**SODIUM P-CUMENSULPHONATE**

Method: OECD Guideline 414

Reliability: 1

Species: rabbit

Route of exposure: oral

Results: NOAEL ca. 1 000 mg / kg bw / day

**1-METHOXY-2-PROPANOL**

Method: OECD 416

Reliability: 1

Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Inhalation (vapors)

Results: Negative, NOAEL (fertility) = 300 ppm

Adverse effects on development of the offspring**1-METHOXY-2-PROPANOL**

**FAP/DPF REGENERATION #2 PREMIUM**

Method: Equivalent or similar to OECD 414  
Reliability: 1  
Species: Rabbit (New Zealand White)  
Route of exposure: Inhalation  
Results: Negative, NOAEL (development) = 3000 ppm

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

**2-BUTOXYETHANOL**

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

**ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM**

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

**ALCOHOLS, C12-C14, ETHOXYLATES (> 2-5EO)**

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

**GLICOL ETILENICO**

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

**1-METHOXY-2-PROPANOL**

Based on available data and through expert judgment, the substance is classified in the target organ toxicity class for single exposure.

Target organ

**1-METHOXY-2-PROPANOL**  
Central nervous system

Route of exposure

**1-METHOXY-2-PROPANOL**  
Inhalation

**FAP/DPF REGENERATION #2 PREMIUM**STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

**2-BUTOXYETHANOL**

Method: Equivalent or similar to OECD 408

Reliability: 1

Species: Rat (Fischer 344; male / female)

Route of exposure: Oral

Results: Negative, NOAEL <69 mg / kg bw

Method: Equivalent or similar to OECD 453

Reliability: 1

Species: Rat (Fischer 344; male / female)

Route of exposure: Inhalation (vapors)

Results: Negative, NOAEC <31 ppm

Method: Equivalent or similar to OECD 411

Reliability: 1

Species: Rabbit (New Zealand White; male / female)

Route of exposure: Dermal

Results: Negative; NOAEL > 150 mg / kg bw / day

**ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM**

Method: Not indicated-Read across

Reliability: 2

Species: Rat (Holtzman; male)

Route of exposure: Oral

Results: Negative, NOAEL > = 500 mg / kg bw / day

Bibliographical reference: The Toxicity and Pharmacodynamics of EGTA: Oral Administration to Rats and Comparisons with EDTA, Wynn, J.E. et al (1970)

Method: OECD 413

Reliability: 1

Species: Rat (Wistar; male / female)

Route of exposure: Inhalation (dust)

Results: Negative, NOAEC = 3 mg / m3 air

**ALCOHOLS, C12-C14, ETHOXYLATES (> 2-5EO)**

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for prolonged or repeated exposure.

**GLICOL ETILENICO**

Method: OECD 410

Reliability: 1

Species: Dog (Beagle; male / female)

Route of exposure: Dermal

Results: NOAEL > 2 200 - <4 400 mg / kg bw / day

**1-METHOXY-2-PROPANOL**

Method: OECD 453

Reliability: 1

Species: Rat (Fischer 344; male / female)

Route of exposure: Inhalation (vapors)

Results: Negative, NOAEL = 300 ppm

Method: Equivalent or similar to OECD 410

Reliability: 1

Species: Rabbit (New Zealand White; male / female)

**FAP/DPF REGENERATION #2 PREMIUM**

Route of exposure: Dermal  
Results: Negative, NOAEL > 1000 mg / kg bw / day

Target organ

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM  
Respiratory tract

GLICOL ETILENICO  
Kidney

Route of exposure

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM  
Inhalation

GLICOL ETILENICO  
Oral

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****12.1. Toxicity**

AMMONIA	
LC50 - for Fish	47 mg/l/96h Channa punctata
EC50 - for Crustacea	20 mg/l/48h Daphnia magna

GLICOL ETILENICO	
LC50 - for Fish	72860 mg/l/96h
EC10 for Algae / Aquatic Plants	100 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	100 mg/l

## FAP/DPF REGENERATION #2 PREMIUM

## 1-METHOXY-2-PROPANOL

LC50 - for Fish 6812 mg/l/96h  
 EC50 - for Crustacea 23300 mg/l/48h

## SODIUM P-CUMENSULPHONATE

LC50 - for Fish > 1000 mg/l/96h  
 EC50 - for Crustacea > 1000 mg/l/48h

**12.2. Persistence and degradability**

## 2-BUTOXYETHANOL

Easily degradable.

## ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

Not rapidly degradable, 0-10% in 28 days (OECD 302 B)

## GLICOL ETILENICO

## 1-METHOXY-2-PROPANOL

Easily degradable in water, 4% in 28 days.

## 2-BUTOXYETHANOL

Solubility in water 1000 - 10000 mg/l  
 Rapidly degradable

## AMMONIA

Degradability: information not available

## 1-HYDROXYETHYLIDENE -1,1-

## DIPHOSPHONIC ACID

Solubility in water &gt; 10000 mg/l

NOT rapidly degradable

## GLICOL ETILENICO

Solubility in water 1000 - 10000 mg/l  
 Rapidly degradable

## 1-METHOXY-2-PROPANOL

Solubility in water 1000 - 10000 mg/l  
 Rapidly degradable

**12.3. Bioaccumulative potential**

## 2-BUTOXYETHANOL

Partition coefficient: n-octanol/water 0,81

## 1-HYDROXYETHYLIDENE -1,1-

## DIPHOSPHONIC ACID

Partition coefficient: n-octanol/water -3,5

## GLICOL ETILENICO

Partition coefficient: n-octanol/water -1,36

## FAP/DPF REGENERATION #2 PREMIUM

## 1-METHOXY-2-PROPANOL

Partition coefficient: n-octanol/water &lt; 1

**12.4. Mobility in soil**

## 1-HYDROXYETHYLIDENE -1,1-DIPHOSPHONIC ACID

Partition coefficient: soil/water 4,22

**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 13. Disposal considerations****13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**2-BUTOXYETHANOL**

Dispose of as hazardous waste. Recover or recycle if possible. Otherwise incineration. Dispose according to local regulations.

**1-METHOXY-2-PROPANOL**

This product, when disposed of in its unused and uncontaminated state, must be treated as a hazardous waste according to EC Directive 91/689 / EEC. Disposal practices must comply with all national and provincial laws and local or local laws governing hazardous waste. Further evaluation may be required for used, contaminated and residual materials. Do not discharge into sewers, onto the ground or into any body of water.

**SECTION 14. Transport information****14.1. UN number or ID number**

ADR / RID, IMDG, 1760  
IATA:

**14.2. UN proper shipping name**

ADR / RID: CORROSIVE LIQUID, N.O.S.

**FAP/DPF REGENERATION #2 PREMIUM**

IMDG: CORROSIVE LIQUID, N.O.S.

IATA: CORROSIVE LIQUID, N.O.S.

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

ADR / RID: Class: 8 Label: 8



IMDG: Class: 8 Label: 8



IATA: Class: 8 Label: 8

**14.4. Packing group**ADR / RID, IMDG, III  
IATA:**14.5. Environmental hazards**

ADR / RID: NO

IMDG: NO

IATA: NO

**14.6. Special precautions for user**

ADR / RID: HIN - Kemler: 80

Limited  
Quantities: 5  
LTunnel  
restriction  
code: (E)

Special provision: 274

IMDG: EMS: F-A, S-B

Limited  
Quantities: 5  
L

IATA: Cargo:

Maximum  
quantity: 60 LPackaging  
instructions:  
856

Pass.:

Maximum  
quantity: 5 LPackaging  
instructions:  
852

Special provision:

A3, A803

**14.7. Maritime transport in bulk according to IMO instruments**

Information not relevant

**SECTION 15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

## FAP/DPF REGENERATION #2 PREMIUM

Product

Point 3 - 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.Substances subject to authorisation (Annex XIV REACH)

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.

**15.2. Chemical safety assessment**

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

**SECTION 16. Other information**

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

<b>Flam. Liq. 3</b>	Flammable liquid, category 3
<b>Met. Corr. 1</b>	Substance or mixture corrosive to metals, category 1
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>STOT RE 2</b>	Specific target organ toxicity - repeated exposure, category 2
<b>Skin Corr. 1B</b>	Skin corrosion, category 1B

**FAP/DPF REGENERATION #2 PREMIUM**

<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<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>H226</b>	Flammable liquid and vapour.
<b>H290</b>	May be corrosive to metals.
<b>H302</b>	Harmful if swallowed.
<b>H332</b>	Harmful if inhaled.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H400</b>	Very toxic to aquatic life.

**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)
- 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

**FAP/DPF REGENERATION #2 PREMIUM**

- 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)
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- 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.

**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.