

EM-700

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Hand protection

Suitable material: PE (polyethylene). CR (polychloroprenes, Chloroprene rubber). NBR (Nitrile rubber). Butyl rubber. FKM (Fluoroelastomer (Viton)).

Tested protective gloves are to be worn: EN 374

Skin protection

Skin protection: not required.

Respiratory protection

Respiratory protection not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	clear, light yellow
Odour:	like: Ammonia

pH-Value (at 20 °C):

11,1 (conc.) 9,9 (1 %) DGF H-III 1

Test method

Changes in the physical state

Melting point:

-6 °C

Initial boiling point and boiling range:

>100 °C

Flash point:

Explosive properties

not Explosive.

Oxidizing properties

not oxidizing.

Density (at 20 °C):

1,03 g/cm³ DIN 12791

Water solubility:

complete miscible

SECTION 10: Stability and reactivity

10.1. Reactivity

Exothermic reactions with: acid, concentrated.

10.2. Chemical stability

The product is chemically stable under normal ambient conditions.

10.3. Possibility of hazardous reactions

None, in case of proper use.

10.4. Conditions to avoid

Thermal decomposition can lead to the escape of irritating gases and vapors.

10.5. Incompatible materials

acid, concentrated.

10.6. Hazardous decomposition products

None, in case of proper use.

Further information

Do not mix with other products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
68424-19-1	C16-C18 fatty acid TEA				
	oral	LD50 >2000 mg/kg	rat		
	dermal	LD50 >2000 mg/kg	rat		
68920-66-1	C16-C18 Fatty alcohol, ethoxylated				
	oral	LD50 >2000 mg/kg	Ratte		
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	oral	LD50 4750 mg/kg	rat		OECD 401
	dermal	LD50 12800 mg/kg	kan		OECD 402
	inhalative (4 h) vapour	LC50 >25 mg/l	rat		OECD 403
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts				
	oral	LD50 500-2000 mg/kg	rat		OECD 401
51981-21-6	N,N-bis(carboxylatomethyl)-L-glutamate, Sodium salt				
	oral	LD50 >2000 mg/kg		EC B.1	
	dermal	LD50 >2000 mg/kg		OECD 402	
	inhalative (4 h) vapour	LC50 4,2 mg/l		OECD 403	
68439-50-9	C12-C14 Fatty alcohol ethoxylate				
	oral	LD50 >2000 mg/kg	rat		Cesio-Recommendation

Irritation and corrosivity

Causes skin irritation.
 Causes serious eye damage.
 Risk of serious damage to eyes.
 Irritant effect on the skin: irritant.

Sensitising effects

Based on available data, the classification criteria are not met.
 no danger of sensitization.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge. due to the alkaline character of the product, usually, it has to be neutralized before contaminated effluents are introduced into the waste water treatment system.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
68424-19-1	C16-C18 fatty acid TEA					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Leuciscus idus	Literature	
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna	Literature	
68920-66-1	C16-C18 Fatty alcohol, ethoxylated					
	Acute fish toxicity	LC50 30 mg/l	96 h			
	Acute crustacea toxicity	EC50 >1000 mg/l	48 h			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol					
	Acute fish toxicity	LC50 >100 mg/l	96 h			
	Acute bacteria toxicity	(>100 mg/l)				
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts					
	Acute fish toxicity	LC50 1-10 mg/l	96 h	Danio rerio		OECD 203
	Acute algae toxicity	ErC50 >61 mg/l	72 h	Desmodesmus subspicatus		OECD 201
	Acute crustacea toxicity	EC50 9,81 mg/l	48 h	Daphnia magna		OECD 202
	Fish toxicity	NOEC 0,85 mg/l	28 d	Oncorhynchus mykiss		OECD 204
	Crustacea toxicity	NOEC 0,36 mg/l	22 d	Daphnia magna		OECD 202
51981-21-6	N,N-bis(carboxylatomethyl)-L- glutamate, Sodium salt					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Oncorhynchus mykiss	OECD 203	
	Acute algae toxicity	ErC50 >100 mg/l	72 h	Desmodesmus subspicatus	OECD 201	
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnien	OECD 202	
	Acute bacteria toxicity	--- g O2/g (--- mg/l)			OECD 209	
68439-50-9	C12-C14 Fatty alcohol ethoxylate					
	Algae toxicity	NOEC <1 mg/l				

12.2. Persistence and degradability

The surfactants contained in this preparation 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.

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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
68920-66-1	C16-C18 Fatty alcohol, ethoxylated			
	OECD 301D	>70 %	28	
	Leicht biologisch abbaubar			
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts			
	OECD 301 B	78 %	28	
	leicht biologisch abbaubar			
	OECD 301 E	98 %	28	
	leicht biologisch abbaubar			
	OECD 303 A	96,2 %	34	
	leicht biologisch abbaubar			
68439-50-9	C12-C14 Fatty alcohol ethoxylate			
	OECD 301F	>60 %	28	
	easily biodegradable			

12.3. Bioaccumulative potential

On the basis of existing data about disposal/decomposition and bio-accumulation potential, long term environmental damage is unlikely.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
51981-21-6	N,N-bis(carboxylatomethyl)-L-glutamate, Sodium salt	<0

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

not applicable

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Waste disposal number of waste from residues/unused products

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

Waste disposal number of used product

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

Contaminated packaging

Completely emptied packings can be re-cycled.

SECTION 14: Transport information

Other applicable information

Not a hazardous material with respect to transportation regulations.

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SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC): 5,9 % (60,77 g/l)

National regulatory information

Water contaminating class (D): 2 - clearly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Data changed from previous versions: 2.1., 3.2., 8.1., 9.1., 11.1., 12.1., 12.2., 13.1., 15.1., 16.

Relevant H and EUH statements (number and full text)

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

Further Information

Training instructions: Notice the directions for use on the label.

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	EM-700	IS, PW, C	0	35	8a, 9, 13	8a, 8b	0	26	

LCS: Life cycle stages

SU: Sectors of use

PC: Product categories

PROC: Process categories

ERC: Environmental release categories

AC: Article categories

TF: Technical functions

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)