



elma-netz HT 1

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Version 2.3 (en)
replaces version of 11.10.2022 (2.2)

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

1.1 Product identifier

Trade name/designation elma-netz HT 1
Unique Formula Identifier UFI: GE50-2083-800K-H5VX
Product category PC-CLN-OTH Other cleaning, care and maintenance products (excludes biocidal products)

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

Sector of uses [SU]

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3 Industrial uses

*** Product Categories [PC]**

PC35 Washing and cleaning products

Use of the substance/mixture

Aqueous rinsing additive for rinsing bathes up to 90°C. Recommended application: ≤ 0.5%, suitability for light metals has to be checked because of possible corrosive action on to these metals.

Uses advised against

Do not use for injecting or spraying.

1.3 Details of the supplier of the safety data sheet

Supplier

Elma Schmidbauer GmbH
Gottlieb-Daimler-Str. 17
D-78224 Singen (Htwl.)
Telephone +49 7731 882-0
Telefax +49 7731 882-266
E-mail info@elma-ultrasonic.com
Website www.elma-ultrasonic.com

Department responsible for information:
Chemie/Labor: Email: chemlab@elma-ultrasonic.com

1.4 Emergency telephone number

Vergiftungs-Informations-Zentrale Freiburg (Sprache/Language: DE, +49 761 19240
EN)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Met. Corr. 1, H290	On basis of test data.
Skin Irrit. 2, H315	Calculation method.
Eye Irrit. 2, H319	Calculation method.

Hazard statements for physical hazards

H290 May be corrosive to metals.

Hazard statements for health hazards

H315 Causes skin irritation.
H319 Causes serious eye irritation.

2.2 Label elements



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

Hazard pictograms



GHS05

Signal word

Warning

Hazard statements

H290 May be corrosive to metals.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements

P102 Keep out of reach of children.
P234 Keep only in original packaging.
P280 Wear protective gloves/eye protection.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

Other labelling

Labelling for contents according to regulation (EC) No. 648/2004:
15 - 30% amphoteric surfactants

2.3 Other hazards

Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Adverse environmental effects

Aquatic Acute 2 H401: Toxic to aquatic life.

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Results of PBT and vPvB assessment

The product does not contain any PBT-/vPvB-substances according to the recipe.

SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Hazardous ingredients

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
	947-998-2	glycine, N-[2-[(2-hydroxyethyl)amino]ethyl]-N-C-(7-9)-acyl derivs., monosodium salts [Reaction products of 1H-Imidazole-1-ethanol, 4,5-dihydro-, 2-(C7-C9 odd-numbered alkyl) derivs. and sodium hydroxide and chloroacetic acid]	20 - 40 weight-%	Met. Corr. 1; H290 Skin Irrit. 2; H315 Eye Irrit. 2; H319	



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REACH No.	Substance name
01-2120771351-59	glycine, N-[2-[(2-hydroxyethyl)amino]ethyl]-N-C-(7-9)-acyl derivs., monosodium salts [Reaction products of 1H-Imidazole-1-ethanol, 4,5-dihydro-, 2-(C7-C9 odd-numbered alkyl) derivs. and sodium hydroxide and chloroacetic acid]

Additional information

Aqueous, weakly alkaline mixture of wetting agents and emulsifiers.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

Following inhalation

In case of inhaling spray mist, consult a physician.

Following skin contact

In case of contact with skin wash off immediately with plenty of water.

In case of skin irritation, consult a physician.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Following ingestion

Do NOT induce vomiting.

If swallowed seek medical advice immediately and show the doctor packing or label.

Medical treatment necessary.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

No further informations available.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

If swallowed, flush stomach.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam

Extinguishing powder

Carbon dioxide (CO₂)

Water spray jet

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In the event of fire the following can be released:

Nitrogen oxides (NO_x)

Carbon monoxide

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not inhale explosion and combustion gases.



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Additional information

Fire class
B (Fires of liquids or liquid turning substances).

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Use personal protection equipment.
Special danger of slipping by leaking/spilling product.

For emergency responders

Personal protection equipment
Use personal protection.
Use breathing apparatus if exposed to vapours/dust/aerosol.
Forms slippery surfaces with water.
Special danger of slipping by leaking/spilling product.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.
Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

For containment

Suitable material for taking up:
Sand
Sawdust
Universal binder
Kieselguhr
Flush away residues with water.
After taking up the material dispose according to regulation.

6.4 Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Handle and open container with care.
Do not inhale aerosols
Avoid contact with eyes and skin.
Keep the packing dry and well sealed to prevent contamination and absorption of humidity.
No special fire protection measures are necessary.

Advices on general occupational hygiene

Make available sufficient washing facilities
Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container.
Keep container tightly closed.

Storage class

10 Combustible liquids that cannot be assigned to any of the above storage classes



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Materials to avoid

Do not store together with:
Acid

Further information on storage conditions

Keep locked up and out of reach of children.
Protect from heat and direct solar radiation.
Storage temperature between 10°C to 30°C (=50°F to 86°F).
Storage time: 3 years.

7.3 Specific end use(s)

Recommendation

See section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL worker

CAS No.	Substance name	DNEL value	DNEL type	Remark
	glycine, N-[2-[(2-hydroxyethyl)amino]ethyl]-N-C-(7-9)-acyl derivs., monosodium salts [Reaction products of 1H-Imidazole-1-ethanol, 4,5-dihydro-, 2-(C7-C9 odd-numbered alkyl) derivs. and sodium hydroxide and chloroacetic acid]	4.5 mg/m ³	long-term inhalative (systemic)	Assessment factor 36
	glycine, N-[2-[(2-hydroxyethyl)amino]ethyl]-N-C-(7-9)-acyl derivs., monosodium salts [Reaction products of 1H-Imidazole-1-ethanol, 4,5-dihydro-, 2-(C7-C9 odd-numbered alkyl) derivs. and sodium hydroxide and chloroacetic acid]	6.42 mg/kg bw/day	long-term dermal (systemic)	Assessment factor 144

PNEC

CAS No.	Substance name	PNEC Value	PNEC type	Remark
	glycine, N-[2-[(2-hydroxyethyl)amino]ethyl]-N-C-(7-9)-acyl derivs., monosodium salts [Reaction products of 1H-Imidazole-1-ethanol, 4,5-dihydro-, 2-(C7-C9 odd-numbered alkyl) derivs. and sodium hydroxide and chloroacetic acid]	0.0053 mg/L	aquatic, freshwater	Assessment factor 1000
	glycine, N-[2-[(2-hydroxyethyl)amino]ethyl]-N-C-(7-9)-acyl derivs., monosodium salts [Reaction products of 1H-Imidazole-1-ethanol, 4,5-dihydro-, 2-(C7-C9 odd-numbered alkyl) derivs. and sodium hydroxide and chloroacetic acid]	6.6 mg/L	sewage treatment plant (STP)	Assessment factor 10

8.2 Exposure controls

Personal protection equipment

Eye/face protection

tightly fitting goggles



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Hand protection

Gloves (alkali-resistant)
Glove material specification [make/type, thickness]: FKM, 0.4mm.
Glove material specification [make/type, thickness]: NBR, 0.35mm.
Glove material specification [make/type, thickness]: PVC, 0.5mm.
Glove material specification [make/type, thickness]: Butyl, 0.5mm.
Glove material specification [make/type, thickness]: NR, 0.5mm.

Respiratory protection

Respiratory protection necessary at:
aerosol or mist formation
Suitable respiratory protection apparatus:
Short term: filter apparatus, combination filter A-P2

Environmental exposure controls

Technical measures to prevent exposure

Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.
Avoid penetration into the subsoil/soil.
Do not discharge into surface waters.

Additional information

Occupational exposure limits: No relevant informations available.

*** SECTION 9: Physical and chemical properties**

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

Physical state

liquid

Colour

yellowish up to brown

Odour

characteristic

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:			not determined
Melting point/freezing point	Solidifying point		not determined
Boiling point or initial boiling point and boiling range	> 100 °C		
flammability	solid		not applicable
flammability	gaseous		not applicable
Lower and upper explosion limit	Upper explosion limit		not relevant
Lower and upper explosion limit	Lower explosion limit		not relevant
Flash point			No flash point up to 100 °C.
Auto-ignition temperature	470 °C		
Decomposition temperature	≥ 100 °C		
pH	in delivery state 10- 11 (20°C) Concentration 100 g/L		
Viscosity	< 100 mPa*s (20°C)	Brookfield	
Solubility(ies)	Water solubility		miscible



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	Value	Method	Source, Remark
Partition coefficient n-octanol/water (log value)	2.1- 3.2		Dates refer to main elements.
Vapour pressure	approx. 23 hPa (20°C)		
Density and/or relative density	1.1 g/cm ³ (20°C)		
Relative vapour density	0.62		Value of Water.
particle characteristics			not applicable (liquid).

* **9.2 Other information**

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

Explosives

Assessment/classification

The mixture does not contain any explosive substances (CLP I 2.1.4.3 a).

CLP I 2.1.4.3 a: The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with explosive properties.

flammable gases

Assessment/classification

not applicable (liquid).

Aerosols

Assessment/classification

not relevant - no aerosol.

The classification criteria for this hazard class are not met by definition.

Oxidising gas

Assessment/classification

not applicable (liquid).

Gases under pressure

Assessment/classification

not applicable (liquid - no dissolved gas).

* **flammable liquids**

Safety characteristics

	Value	Method, Result	Source, Remark
Flash point (°C)	> 93 °C		

Assessment/classification

The mixture is not classified as flammable liquids.

flammable solids

Assessment/classification

not applicable (liquid).

Self-reactive substances and mixtures

Assessment/classification

The mixture does not contain any self-reactive substances (CLP I 2.8.4.2 a).

CLP I 2.8.4.2 a: There are no chemical groups present in the molecule associated with explosive or self reactive properties.

Pyrophoric liquids

Assessment/classification

The mixture does not contain any pyrophoric substances - not spontaneously flammable (CLP I 2.9.4.1).

CLP I 2.9.4.1: The classification procedure for pyrophoric liquids need not be applied when experience in manufacture or handling shows that the substance or mixture does not ignite spontaneously on coming into contact with air at normal temperatures (i.e. the substance is known to be stable at room temperature for prolonged periods of time (days)).



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Pyrophoric solids

Assessment/classification
not applicable (liquid).

self-heating substances and mixtures

Assessment/classification
The mixture does not contain any self-heating substances.

Substances or mixtures which, in contact with water, emit flammable gases

Assessment/classification
not relevant - in contact with water releases no flammable gases (CLP I 2.12.4.1).
CLP I 2.12.4.1: The classification procedure for this class need not be applied if: (a) the chemical structure of the substance or mixture does not contain metals or metalloids; or (b) experience in production or handling shows that the substance or mixture does not react with water, e.g. the substance is manufactured with water or washed with water; or (c) the substance or mixture is known to be soluble in water to form a stable mixture.

Oxidising liquids

Assessment/classification
The mixture does not contain any oxidising substances.

Oxidising solids

Assessment/classification
not applicable (liquid).

Organic peroxides

Assessment/classification
The mixture does not contain any organic peroxides.

* **Corrosive to metals**

Safety characteristics

	Value	Method, Result	Source, Remark
Corrosion rate (mm aluminium/year)	> 6.25 mm/a		
Corrosion rate (mm steel/year)			not available

Assessment/classification
The mixture is classified as corrosive to metals (Met. Corr. 1 H290).

Desensitised explosives

Assessment/classification
The mixture does not contain any desensitised explosive substances.

Other safety characteristics

	Value	Method	Source, Remark
Evaporation rate			Water: 0.36 (ASTM D3539).
Solvent content	0 %		
Explosive properties			none
Oxidising properties			none

* **Other information**
No further relevant informations available.



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SECTION 10: Stability and reactivity

10.1 Reactivity

Exothermic reaction with:
Acid
No further hazardous reactions known if used as directed.

10.2 Chemical stability

Stable at ambient temperature.

10.3 Possibility of hazardous reactions

Reactions with strong oxidising agents.
Reactions with strong acids.

10.4 Conditions to avoid

Heat and direct solar radiation.

10.5 Incompatible materials

Reactions with strong acids.
Oxidising agent, strong
Corrodes aluminium.

10.6 Hazardous decomposition products

No decomposition if used as directed.

SECTION 11: Toxicological information

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

Acute toxicity

Animal data

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	> 5000 mg/kg	ATE: Acute Toxicity Estimate	
Acute dermal toxicity	> 5000 mg/kg	ATE: Acute Toxicity Estimate	
Acute inhalation toxicity	Acute inhalation toxicity (vapour)		not relevant

Assessment/classification

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

Skin corrosion/irritation

Animal data

Result / Evaluation	Method	Source, Remark
Irritant.	Calculation method.	

Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
Irritant.	Calculation method.	

Sensitisation to the respiratory tract

Assessment/classification

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



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Skin sensitisation

Animal data

Result / Evaluation	Dose / Concentration	Method	Source, Remark
not sensitising.		Calculation method.	

Germ cell mutagenicity

Assessment/classification

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

Carcinogenicity

Assessment/classification

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

Reproductive toxicity

Assessment/classification

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

Overall Assessment on CMR properties

The mixture is not classified as mutagen / not classified as carcinogen / not classified as reproductive toxicant.

STOT-single exposure

STOT SE 1 and 2

Assessment/classification

The mixture is not classified as specific target organ toxicant (single exposure).
Based on available data, the classification criteria are not met.

STOT SE 3

Irritation to respiratory tract

Assessment/classification

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

Narcotic effects

Assessment/classification

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

STOT-repeated exposure

Assessment/classification

The mixture is not classified as specific target organ toxicant (repeated exposure).
Based on available data, the classification criteria are not met.

Aspiration hazard

Assessment/classification

The mixture is not classified as aspiration hazardous.
Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Symptoms related to the physical, chemical and toxicological characteristics

	Effective dose	Method, Evaluation	Source, Remark
Endocrine disrupting properties			This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.



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Other information

Has degreasing effect on the skin.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	LC50: 5.6 mg/L glycine, N-[2-[(2-hydroxyethyl)amino]ethyl]-N-C-(7-9)-acyl derivs., monosodium salts [Reaction products of 1H-Imidazole-1-ethanol, 4,5-dihydro-, 2-(C7-C9 odd-numbered alkyl) derivs. and sodium hydroxide and chloroacetic acid] LC50: 1.6 mg/L Species Danio rerio (zebrafish) Test duration 96 h	calculated. OECD 203	
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	EC50 88 mg/L glycine, N-[2-[(2-hydroxyethyl)amino]ethyl]-N-C-(7-9)-acyl derivs., monosodium salts [Reaction products of 1H-Imidazole-1-ethanol, 4,5-dihydro-, 2-(C7-C9 odd-numbered alkyl) derivs. and sodium hydroxide and chloroacetic acid] EC50 25.4 mg/L Species Daphnia magna (Big water flea) Test duration 48 h	calculated. OECD 202	
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	EC50 52 mg/L glycine, N-[2-[(2-hydroxyethyl)amino]ethyl]-N-C-(7-9)-acyl derivs., monosodium salts [Reaction products of 1H-Imidazole-1-ethanol, 4,5-dihydro-, 2-(C7-C9 odd-numbered alkyl) derivs. and sodium hydroxide and chloroacetic acid] EC50 14.8 mg/L Species Desmodesmus subspicatus Test duration 72 h	calculated. OECD 201	



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	Effective dose	Method, Evaluation	Source, Remark
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	glycine, N-[2-[(2-hydroxyethyl)amino]ethyl]-N-C-(7-9)-acyl derivs., monosodium salts [Reaction products of 1H-Imidazole-1-ethanol, 4,5-dihydro-, 2-(C7-C9 odd-numbered alkyl) derivs. and sodium hydroxide and chloroacetic acid] EC10: 3.8 mg/L Test duration 72 h		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

Assessment/classification

Toxic to aquatic life.

12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation	Degradation rate 67 %	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	Readily biodegradable (according to OECD criteria).
Biodegradation	Degradation rate 100 %	Neutralization, pH-measurement	Alkaline properties can be eliminated up to 100% by neutralization.

12.3 Bioaccumulative potential

Assessment/classification

glycine, N-[2-[(2-hydroxyethyl)amino]ethyl]-N-C-(7-9)-acyl derivs., monosodium salts: Because of the n-octanol/water partition coefficient (log Pow) accumulation in organisms is possible.

12.4 Mobility in soil

Assessment/classification

glycine, N-[2-[(2-hydroxyethyl)amino]ethyl]-N-C-(7-9)-acyl derivs., monosodium salts: Adsorption on soil is not expected (Koc: 3.16).

12.5 Results of PBT and vPvB assessment

The product does not contain any PBT-/vPvB-substances according to the recipe.

12.6 Endocrine disrupting properties

	Effective dose	Method, Evaluation	Source, Remark
Endocrine disrupting properties			This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 Other adverse effects

	Value	Method	Source, Remark
Ozone depletion potential (ODP):			Based on available data, the classification criteria are not met.

Additional ecotoxicological information

	Value	Method	Source, Remark
Chemical oxygen demand (COD)	495 mgO ₂ /g		



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	Value	Method	Source, Remark
AOX			The product does not contain any organically bound halogens according to the recipe.

Additional information

The surfactants in our product meet the criteria for biodegradation as laid down in Annex III of the Regulation (EC) No 648/2004 on detergents.

Acute aquatic environmental hazards: Aquatic Acute 2 H401: Toxic to aquatic life.

The mixture is not classified as chronic hazardous to the aquatic environment.

Do not allow uncontrolled discharge of product into the environment.

No further relevant informations available.

*** SECTION 13: Disposal considerations**

*** 13.1 Waste treatment methods**

*** Waste codes/waste designations according to EWC/AVV**

Waste code product	Waste name
200129 *	detergents containing hazardous substances

Waste code packaging	Waste name
150110 *	packaging containing residues of or contaminated by hazardous substances

Appropriate disposal / Product

Do not dispose with household waste.

Suitable for neutralization are acetic acid (60%, liquid) or citric acid (solid powder, crystallized) if a stainless steel bath is used.

Product is allowed to discharge into sewage treatment plants, but in accordance with official regulations.

Appropriate disposal / Package

Non-contaminated packages may be recycled.

Handle contaminated packages in the same way as the substance itself.

*** SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	UN 1719	UN 1719	UN 1719
14.2 UN proper shipping name	CAUSTIC ALKALI LIQUID, N.O.S. (amphotensids)	CAUSTIC ALKALI LIQUID, N.O.S. (amphotensids)	Caustic alkali liquid, n.o.s. (amphotensids)
14.3 Transport hazard class(es)	8	8	8
14.4 Packing group	III	III	III
14.5 Environmental hazards	-	-	-

14.6 Special precautions for user

none

14.7 Maritime transport in bulk according to IMO instruments

not relevant

Land transport (ADR/RID)

UN number or ID number	UN 1719
UN proper shipping name	CAUSTIC ALKALI LIQUID, N.O.S. (amphotensids)
Transport hazard class(es)	8
Hazard label(s)	8



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Classification code	C5
Packing group	III
Environmental hazards	-
Limited quantity (LQ)	5 L
Special provisions	274
Tunnel restriction code	E

Sea transport (IMDG)

UN number or ID number	UN 1719
UN proper shipping name	CAUSTIC ALKALI LIQUID, N.O.S. (amphotensids)
Transport hazard class(es)	8
Packing group	III
Environmental hazards	-
Limited quantity (LQ)	5 L
Marine pollutant	No
EmS	F-A, S-B

Air transport (ICAO-TI / IATA-DGR)

UN number or ID number	UN 1719
UN proper shipping name	Caustic alkali liquid, n.o.s. (amphotensids)
Transport hazard class(es)	8
Packing group	III
Environmental hazards	-

SECTION 15: Regulatory information

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

EU legislation

Authorisations
not relevant

Restrictions on use

Regulation (EC) No 1907/2006 (REACH), Annex XVII No 3 - not relevant if used as directed.
Regulation (EC) No 1907/2006 (REACH), Annex XVII No 75 - not relevant if used as directed.

Restrictions of occupation

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Other regulations (EU)

To follow:

Regulation (EC) No. 648/2004 (Detergents regulation)
Directive 2012/18/EU, Annex I: not mentioned.

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC

VOC content, delivery state 0 %

15.2 Chemical Safety Assessment

National regulations

For this mixture a chemical safety assessment were not carried out.



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SECTION 16: Other information

Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

ASTM: American Society for Testing and Materials

ATE: Acute Toxicity Estimate

AVV: Waste Shipment Ordinance (DE)

DGR: Dangerous Goods Regulations (IATA)

DNEL: derived no-effect level

EmS: emergency procedures

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organization

JArbSchG: Youth Labor Protection Act (DE)

OECD: Organisation for Economic Cooperation and Development

PBT: persistent and bioaccumulative and toxic

RID: Dangerous goods regulations for transport by rail

Ti: Technical Instruction

TRGS: Technical Rules for Hazardous Substances

VOC: Volatile organic compounds

vPvB: very persistent, very bioaccumulative

Key literature references and sources for data

Own measurements.

Informations from our suppliers.

Additional information

National and local regulations concerning chemicals shall be observed.

These data are given according to our actual knowledge about this product. This data sheet does not correspond to an assurance by virtue of a contract for properties of the product.

Relevant H- and EUH-phrases (Number and full text)

H290 May be corrosive to metals.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Indication of changes

* Data changed compared with the previous version