



S16

Print date 21.09.2022
Revision date 29.08.2022
Version .4 (en)

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

1.1 Product identifier

Trade name/designation S16
Unique Formula Identifier UFI:GV60-N0YU-F00Y-RYT1
Product category PC-CLN-OTH Other cleaning, care and maintenance products (excludes biocidal products)

Hazard components

citric acid, monohydrate, Alkyl-PEG-ether ester of phosphoric acid

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

Sector of uses [SU]

SU20 Health services
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3 Industrial uses

Process categories [PROC]

PROC8a Transfer of substance or mixture (charging and discharging) at non- dedicated facilities
PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
PROC13 Treatment of articles by dipping and pouring

Environmental release categories [ERC]

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC6b Use of reactive processing aid at industrial site (no inclusion into or onto article)

Product Categories [PC]

PC14 Metal surface treatment products
PC35 Washing and cleaning products

Use of the substance/mixture

Aqueous, mildly acidic concentrate for ultrasonic cleaning and passivation.

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

Department responsible for information:

Chemie/Labor: Email: chemlab@elma-ultrasonic.com
Website www.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
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Met. Corr. 1, H290	On basis of test data.
Skin Corr. 1C, H314	On basis of test data.
Eye Dam. 1, H318	Calculation method.



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Hazard statements for physical hazards

H290 May be corrosive to metals.

Hazard statements for health hazards

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Hazard pictograms



GHS05

2.2 Label elements

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

Signal word

Danger

Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P280 Wear protective gloves/protective clothing and eye/face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a doctor.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Special rules for supplemental label elements for certain mixtures

EUH208 Contains 2-methylisothiazol-3(2H)-one. May produce an allergic reaction.

Other labelling

Labelling for contents according to regulation (EC) No. 648/2004:

< 5% anionic surfactants

< 5% non-ionic surfactants

Benzisothiazolinone (<5 ppm)

Methylisothiazolinone (<5 ppm)

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
5949-29-1	201-069-1	citric acid, monohydrate	20 - 40 weight-%	Eye Irrit. 2; H319 STOT SE 3; H335	



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
31800-88-1		Alkyl-PEG-ether ester of phosphoric acid	< 5 weight-%	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	
2682-20-4	220-239-6	2-methylisothiazol-3(2H)-one	≥ 0.00015 < 0.0005 weight-%	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 2; H330 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410; EUH071	Skin Sens. 1A; H317: C>=0,0015% M=10 (Aquatic Acute 1) M=1 (Aquatic Chronic 1)

REACH No.	Substance name
01-2119457026-42	citric acid, monohydrate
Not relevant (polymer)	Alkyl-PEG-ether ester of phosphoric acid

Additional information

Aqueous acid mixture of anionic and nonionic surfactants, corrosion inhibitors, salts of organic acids and citric acid

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In the event of persistent symptoms receive medical treatment.

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.
Rinse mouth immediately and drink plenty of water.
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

No further informations available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam
Extinguishing powder
Carbon dioxide (CO₂)
Water spray jet



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5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire formation of dangerous gases possible.
In the event of fire the following can be released:
Carbon monoxide
Phosphorus oxides
Sulphur oxides

5.3 Advice for firefighters

Special protective equipment for firefighters
Do not inhale explosion and combustion gases.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings.
The product itself does not burn.

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.

6.3 Methods and material for containment and cleaning up

For containment

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).
Flush away residues with water.
Take up mechanically and send for disposal.

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.
Take the usual precautions when handling with chemicals.
Avoid:
generation/formation of aerosols
Do not inhale aerosols
Avoid contact with eyes and skin.
Keep the packing dry and well sealed to prevent contamination and absorption of humidity.
The product is not combustible.

Advices on general occupational hygiene

Make available sufficient washing facilities
Keep away from food and drink.
Wash hands before breaks and after work.



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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container.

Storage class

8B Non-combustible corrosive substances

Materials to avoid

Do not store together with:

alkali
Oxidising agent
Food and feedingstuffs

Further information on storage conditions

Keep locked up and out of reach of children.
Protect from heat and direct solar radiation.
Keep container tightly closed in a cool place.
Do not keep at temperatures below -5°C.
Do not keep at temperatures above 30°C.
Storage time: 3 years.

7.3 Specific end use(s)

Recommendation

no further

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No data available

8.2 Exposure controls

Personal protection equipment

Eye/face protection

tightly fitting goggles

Hand protection

chemical-resistant gloves

Glove material specification [make/type, thickness, permeation time/life]: Butyl, 0,5mm, >=8h.

Glove material specification [make/type, thickness, permeation time/life]: NBR, 0,35mm, >=8h.

Glove material specification [make/type, thickness, permeation time/life]: FKM, 0,4mm, >=8h.

Body protection:

Light protective clothing.

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 for citric acid.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

liquid

Colour

light yellow



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Odour
mild

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:			not determined
Melting point/freezing point	solidifying range		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	> 250 °C		CAS No.31800-88-1 Alkyl-PEG-ether ester of phosphoric acid
Decomposition temperature	≥ 100 °C		
pH	in delivery state 1.5 (20°C)		
Viscosity			not determined
Solubility(ies)	Water solubility		miscible
Partition coefficient n-octanol/water (log value)	-1.72 (20°C)		Value of citric acid.
Vapour pressure	approx. 23 hPa (20°C)		
Density and/or relative density	1.19 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.



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Oxidising gas

Assessment/classification
not applicable (liquid).

Gases under pressure

Assessment/classification
not applicable (liquid - no dissolved gas).

flammable liquids

Assessment/classification
not flammable, not combustible (No flash point below 100°C).

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)).

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.



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Corrosive to metals

Safety characteristics

	Value	Method, Result	Source, Remark
Corrosion rate (mm aluminium/year)	0.25 mm/a	UN Test, Part III of sub-section 37.4	
Corrosion rate (mm steel/year)	7.89 mm/a	UN Test, Part III of sub-section 37.4	

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.

SECTION 10: Stability and reactivity

10.1 Reactivity

Exothermic reaction with alkalis.
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 alkalis.
Reactions with strong oxidising agents.

10.4 Conditions to avoid

Heat and direct solar radiation.

10.5 Incompatible materials

Oxidising agent, strong
Reactions with strong alkalis.

10.6 Hazardous decomposition products

No decomposition if used as directed.



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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
Corrosive.	OECD 435	

Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
Risk of serious damage to eyes.	Calculation method	

Sensitisation to the respiratory tract

Assessment/classification

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

Skin sensitisation

Animal data

Result / Evaluation	Dose / Concentration	Method	Source, Remark
The mixture is not classified as skin sensitiser.		Calculation method.	Contains 2-methylisothiazol-3(2H)-one. May produce an allergic reaction.

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.



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STOT SE 3

Irritation to respiratory tract

Other information

Inhalation of spray may cause respiratory irritation.

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.

Other information

OECD 435: skin corrosive category 1C.
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: 151 mg/L	calculated.	
	CAS No.31800-88-1 Alkyl-PEG-ether ester of phosphoric acid LC50: > 100 mg/L		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	EC50 62 mg/L	calculated.	After neutralization there is a reduction in the harmfulness: EC50(Daphnia, calculated, after neutralization): >100mg/l.
	CAS No.31800-88-1 Alkyl-PEG-ether ester of phosphoric acid EC50 79 mg/L		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		



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	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) toxicity to algae and cyanobacteria	EC50 5.3 mg/L	calculated.	After neutralization there is a reduction in the harmfulness from toxic to harmful to aquatic life: EC50(Algae, calculated, after neutralization): 60mg/l.
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	CAS No.31800-88-1 Alkyl-PEG-ether ester of phosphoric acid EC50 2.67 mg/L		
Toxicity to other aquatic plants/organisms	CAS No.31800-88-1 Alkyl-PEG-ether ester of phosphoric acid EC10: 0.74 mg/L	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 > 90 %	calculated.	DOC reduction Readily biodegradable (according to OECD criteria).
Biodegradation	Degradation rate 100 %	Neutralization, pH-measurement	Acid properties can be eliminated up to 100% by neutralization.
Biodegradation	Degradation rate 97 % Test duration 28 d	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	CAS No.5949-29-1 citric acid, monohydrate
Biodegradation	Degradation rate 48- 56 % Test duration 28 d	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	CAS No.2682-20-4 2-methylisothiazol-3(2H)-one
Biodegradation	Degradation rate 66 % Test duration 28 d	OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A	CAS No.31800-88-1 Alkyl-PEG-ether ester of phosphoric acid
Biodegradation	Degradation rate > 60 %	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	CAS No.31800-88-1 Alkyl-PEG-ether ester of phosphoric acid

12.3 Bioaccumulative potential

Assessment/classification

citric acid: Accumulation in organisms is not expected.

2-methyl-2H-isothiazol-3-one: Accumulation in organisms is not expected.

Alkyl-PEG-ether ester of phosphoric acid: not available.

12.4 Mobility in soil

Assessment/classification

citric acid: Weak adsorption on soil, mobile in soil.

2-methyl-2H-isothiazol-3-one: Weak adsorption on soil, mobile in soil.

Alkyl-PEG-ether ester of phosphoric acid: not available.

12.5 Results of PBT and vPvB assessment

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



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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) AOX	363 mgO ₂ /g	calculated.	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. After neutralization: Aquatic Acute 3 H402: Harmful 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.
Neutralize with alkalies or lime.
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	3265	3265	3265
14.2 UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Citronensäure, Alkylpolyglykoletherphosphorsäureester)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Citric acid, Akyl-PEG-ether ester of phosphoric acid)	Corrosive liquid, acidic, organic, n.o.s. (Citric acid, Akyl-PEG-ether ester of phosphoric acid)



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14.3 Transport hazard class(es)	8	8	8
14.4 Packing group	III	III	III
14.5 Environmental hazards	No	-	-

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 3265
UN proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Citronensäure, Alkylpolyglykoetherphosphorsäureester)
Transport hazard class(es) 8
Hazard label(s) 8
Classification code C3
Packing group III
Environmental hazards No
Limited quantity (LQ) 5 L
Special provisions 274
Tunnel restriction code E

Sea transport (IMDG)

UN number or ID number 3265
UN proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Citric acid, Akyl-PEG-ether ester of phosphoric acid)
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 3265
UN proper shipping name Corrosive liquid, acidic, organic, n.o.s. (Citric acid, Akyl-PEG-ether ester of phosphoric acid)
Transport hazard class(es) 8
Packing group III
Environmental hazards -



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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.

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.

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)

DOC: Dissolved Organic Carbon

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

SCL: Specific concentration limit

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.

European Chemicals Agency, <http://echa.europa.eu/>.

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.



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

H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.