Tana-Chemie GmbH
Werner & Mertz Group

APESIN C 300 F

WM 0716391 **Order number: 0716391**

Version 2.4 Revision Date 13.03.2025 Print Date 02.10.2025

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

1.1 Product identifier

Trade name	:	APESIN C 300 F
UFI	:	NWD6-10X9-H00K-RCK9

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

Use of the Substance/Mixture	:	disinfectants, Cleaning agent
		Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company	:	Tana Chemie GmbH Rheinallee 96 55120 Mainz
Telephone	:	+49613196403
Telefax	:	+4961319642414
E-mail address	:	Produktsicherheit@werner-mertz.com
Responsible/issuing person		
Contact person	:	Product development / product safety

1.4 Emergency telephone number

+49(0)551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements	:		
		H314	Causes severe skin burns and eye damage.
		H335	May cause respiratory irritation.
		H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements	:		
		P102	Keep out of reach of children.
		Prevention:	
		P273	Avoid release to the environment.
		P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Response:	
		P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
		P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
		P391	Collect spillage.
		Disposal:	
		P501	Dispose of container into the collection of recyclables only when it is completely empty.

Hazardous components which must be listed on the label:

2-aminoethanol
Alkyl (C12-16) dimethylbenzyl ammonium chloride

Safety data sheet available on request.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2-aminoethanol	141-43-5 205-483-3 603-030-00-8	Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302	>= 10 - < 20

	01-2119486455-28	Skin Corr. 1B; H314 STOT SE 3; H335 Aquatic Chronic 3; H412 Eye Dam. 1; H318 --- specific concentration limit STOT SE 3; H335 >= 5 % --- Acute toxicity estimate Acute oral toxicity: 500,0 mg/kg Acute inhalation toxicity: 11 mg/l Acute dermal toxicity: 1.100 mg/kg	
Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1 270-325-2	Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Acute Tox. 4; H302 --- M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1 --- Acute toxicity estimate Acute oral toxicity: 397 mg/kg Acute dermal toxicity: > 5.000 mg/kg	>= 10 - < 20
Decanol, ethoxylated	26183-52-8 500-046-6	Eye Irrit. 2; H319 Acute Tox. 4; H302	>= 1 - < 10

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.
Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
Immediate medical treatment is necessary as untreated wounds from

corrosion of the skin heal slowly and with difficulty.

In case of eye contact	:	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. Protect unharmed eye. Continue rinsing eyes during transport to hospital.
If swallowed	:	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	:	corrosive effects Irritation
Risks	:	No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental precautions

Environmental precautions	:	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Neutralise with acid. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Store in original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature in the original container.
Further information on storage stability	:	No decomposition if stored and applied as directed. Protect from frost.

7.3 Specific end use(s)

Specific use(s)	:	disinfectants, Cleaning agent

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-aminoethanol	Not Assigned	TWA	1 ppm 2,5 mg/m3	2006/15/EC
	Further information: Indicative, Identifies the possibility of significant uptake through the skin			
		STEL	3 ppm 7,6 mg/m3	2006/15/EC
	Further information: Indicative, Identifies the possibility of significant uptake through the skin			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
2-aminoethanol	Workers	Skin contact	Long-term systemic effects	1 mg/kg
	Workers	Inhalation	Long-term local effects	3,3 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0,24 mg/kg
	Consumers	Ingestion	Long-term systemic effects	3,75 mg/kg
	Consumers	Inhalation	Long-term local effects	2 mg/m3
	Consumers	Oral	Long-term systemic effects	1,5 mg/kg bw/day
	Workers	Skin contact	Long-term systemic effects	3 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	1,5 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	1 mg/m3
	Workers	Inhalation	Long-term local effects	0,51 mg/m3
	Consumers	Inhalation	Long-term systemic	0,18 mg/m3

			effects	
	Consumers	Inhalation	Long-term local effects	0,28 mg/m3
Alanine, N,N-bis(carboxymethyl)-, trisodium salt	Workers	Inhalation	Acute systemic effects	40 mg/m3
	Workers	Inhalation	Acute local effects	40 mg/m3
	Workers	Inhalation	Long-term systemic effects	40 mg/m3
	Workers	Inhalation	Long-term local effects	4 mg/m3
	Consumers	Inhalation	Acute local effects	20 mg/m3
	Consumers	Inhalation	Acute systemic effects	20 mg/m3
	Consumers	Inhalation	Long-term systemic effects	20 mg/m3
	Consumers	Inhalation	Long-term local effects	2 mg/m3
	Consumers	Ingestion	Acute systemic effects	85 mg/kg
	Consumers	Ingestion	Long-term systemic effects	17 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
2-aminoethanol	Fresh water	0,07 mg/l
	Marine water	0,007 mg/l
	STP	100 mg/l
	intermittent release	0,028 mg/l
	Fresh water sediment	0,357 mg/kg
	Marine sediment	0,0357 mg/kg
	Soil	1,29 mg/kg
Alanine, N,N-bis(carboxymethyl)-, trisodium salt	Fresh water	2 mg/l
	Marine water	0,2 mg/l
	Fresh water sediment	24 mg/kg

	Soil	2,5 mg/kg
	STP	100 mg/l
	intermittent release	1 mg/l

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Remove and wash contaminated clothing before re-use.

Respiratory protection : Not required; except in case of aerosol formation.

Recommended Filter type:

ABEK-P3-filter

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : colourless

Odour : odourless

Melting point/freezing point : No data available

Boiling point/boiling range	:	No data available
Flammability (solid, gas)	:	No data available
Flammability (liquids)	:	No data available
Lower explosion limit	:	3 %(V)
Upper explosion limit	:	23,5 %(V)
Flash point	:	No data available
Ignition temperature	:	No data available
Decomposition temperature	:	No data available
pH	:	ca. 12,6, 100 % at 20 °C
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	No data available
Density	:	ca. 1,040 g/cm3 at 20 °C
Relative density	:	No data available
Relative vapour density	:	No data available
Particle characteristics	:	No data available

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.
No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Stable under recommended storage conditions. No decomposition if used as directed.

10.4 Conditions to avoid

Conditions to avoid	:	Protect from frost.

10.5 Incompatible materials

Materials to avoid	:	No data available

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Our company is strongly against animal testing.
Our company does not place any orders for animal testing for the finished product or the ingredients.
However, as a result of EU legislation (REACH Regulation), the manufacturers of ingredients or EU importers are obliged to test ingredients with regard to their effects on human health and the environment before they are brought onto the market. Some of the tests made necessary by this took place decades ago.

Acute toxicity

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method

Components:

2-aminoethanol

141-43-5:

Acute oral toxicity	:	LD50 Oral (Rat): 1.515 mg/kg Method: OECD Test Guideline 401 Acute toxicity estimate: 500,0 mg/kg Method: Converted acute toxicity point estimate LD50 (Rat): 1.089 mg/kg Method: OECD Test Guideline 401 LD50 (Rat): 1.750 - 2.050 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 1,3 mg/l Exposure time: 6 h Remarks: Harmful by inhalation. LC50 (Rat): 1,487 mg/l Exposure time: 4 h Acute toxicity estimate: 11 mg/l LC50 (Rat): 1,3 mg/l Exposure time: 4 h
Acute dermal toxicity	:	LD50 Dermal (Rabbit): 2.504 mg/kg

Method: OECD Test Guideline 402

Acute toxicity estimate: 1.100 mg/kg
Method: Converted acute toxicity point estimate

LD50 (Rabbit): 1.000 mg/kg

Alkyl (C12-16) dimethylbenzyl ammonium chloride

68424-85-1:

Acute oral toxicity	:	Acute toxicity estimate: 397 mg/kg
Acute dermal toxicity	:	Acute toxicity estimate: > 5.000 mg/kg

Decanol, ethoxylated

26183-52-8:

Acute oral toxicity	:	LD50 Oral: > 2.000 mg/kg

Skin corrosion/irritation

Product:

Remarks	:	Extremely corrosive and destructive to tissue.

Components:

2-aminoethanol

141-43-5:

Species	:	Rabbit
Assessment	:	Corrosive
Method	:	OECD Test Guideline 404
Result	:	Corrosive

Alkyl (C12-16) dimethylbenzyl ammonium chloride

68424-85-1:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Corrosive after 3 minutes or less of exposure

Serious eye damage/eye irritation

Product:

Remarks	:	May cause irreversible eye damage.

Components:

2-aminoethanol

141-43-5:

Species	:	Rabbit
Assessment	:	Risk of serious damage to eyes.
Method	:	OECD Test Guideline 405
Result	:	Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product:

Remarks : No data available

Components:

2-aminoethanol

141-43-5:

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity : Not Rated

Carcinogenicity : Not Rated

Reproductive toxicity : Not Rated

STOT - single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity : Not Rated

11.2 Information on other hazards

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-aminoethanol

141-43-5:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 150 mg/l
Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): 329 mg/l
Exposure time: 96 h

LC50 (Cyprinus carpio (Carp)): 349 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203

LC50 (Carassius auratus (goldfish)): 170 mg/l
Exposure time: 96 h
Test Type: static test

LC50 (Leuciscus idus (Golden orfe)): 224 mg/l
Exposure time: 48 h

LC50 (Oncorhynchus mykiss (rainbow trout)): 105 mg/l
Exposure time: 96 h

(Oryzias latipes (Orange-red killifish)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 27,04 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 0,85 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211

EC50 (Daphnia magna (Water flea)): 65 mg/l
Exposure time: 48 h
Test Type: static test
Method: EG 84/449

Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum): 2,8 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201

EC50 (Scenedesmus subspicatus): 22 mg/l
Exposure time: 72 h
Test Type: Growth inhibition

NOEC (Selenastrum capricornutum): 1 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201

EC50 (Scenedesmus subspicatus): 15 mg/l
Exposure time: 72 h

EC50 (Selenastrum capricornutum): 2,5 mg/l
Exposure time: 72 h

EC10 (Pseudokirchneriella subcapitata (green algae)): 0,7 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC20 (activated sludge): > 1.000 mg/l
Exposure time: 0,5 h
Method: OECD Test Guideline 209

EC50 (Pseudomonas putida): 110 mg/l
Exposure time: 16 h

Method: DIN 38412

EC50 (activated sludge): > 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

EC50 (Pseudomonas putida): 110 mg/l
Exposure time: 17 h
Test Type: Respiration inhibition

Toxicity to fish (Chronic toxicity) : NOEC: 1,2 mg/l
Exposure time: 30 d
Species: Oryzias latipes (Orange-red killifish)

Toxicity to soil dwelling organisms : EC50: 4.033 mg/kg
Exposure time: 63 d
Species: Eisenia fetida (earthworms)

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

68424-85-1:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,85 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1 mg/l
Exposure time: 48 h

EC50 (Daphnia (water flea)): 0,016 mg/l
Exposure time: 48 h

NOEC (Daphnia (water flea)): 0,025 mg/l
Exposure time: 21 d

Toxicity to algae/aquatic plants : IC50 (Desmodesmus subspicatus (green algae)): 1 mg/l
Exposure time: 72 h

EC10 (Selenastrum capricornutum (green algae)): 0,0025 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC50 (Selenastrum capricornutum (green algae)): 0,025 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10

Toxicity to microorganisms : EC20 (activated sludge): 5 mg/l
Exposure time: 0,5 h
Method: OECD Test Guideline 209

M-Factor (Chronic aquatic toxicity) : 1

Decanol, ethoxylated

26183-52-8:

Toxicity to fish : LC50 : 1 - 10 mg/l

Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates	:	(Daphnia magna (Water flea)): 13,5 mg/l Test Type: Immobilization Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	(Desmodesmus subspicatus (green algae)): 12,0 mg/l Test Type: Growth inhibition Method: OECD Test Guideline 201
Toxicity to microorganisms	:	EC0 (Bacteria): > 100 mg/l

12.2 Persistence and degradability

Components:

2-aminoethanol

141-43-5:

Biodegradability	:	Test Type: aerobic Inoculum: activated sludge Result: Readily biodegradable. Biodegradation: > 90 % Exposure time: 21 d Method: OECD 301 A Result: rapidly biodegradable Biodegradation: 90 - 100 % Method: OECD 301 F
Biochemical Oxygen Demand (BOD)	:	800 mg/g Incubation time: 5 d
ThOD	:	1,31 g/g

Decanol, ethoxylated

26183-52-8:

Biodegradability	:	Biodegradation: 89 % Exposure time: 28 d Method: OECD 301 F

12.3 Bioaccumulative potential

Components:

2-aminoethanol

141-43-5:

Bioaccumulation	:	Bioconcentration factor (BCF): 1 Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.
Partition coefficient: n-octanol/water	:	log Pow: -1,91 (25 °C) Method: OECD Test Guideline 107 log Pow: -2,3 (25 °C) pH: 6,8 - 7,3 Method: OECD Test Guideline 107

12.4 Mobility in soil

Components:

2-aminoethanol

141-43-5:

Distribution among environmental compartments	:	Medium: Soil Koc: 5 Remarks: Highly mobile in soils
Stability in soil	:	Remarks: Will not adsorb on soil.

12.5 Results of PBT and vPvB assessment

Product:

Assessment	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

2-aminoethanol

141-43-5:

Assessment	:	This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. In accordance with local and national regulations.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

Waste Code	European Waste Catalogue 20 01 29* According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR	:	1760
IMDG	:	1760
IATA	:	1760

14.2 UN proper shipping name

ADR	:	CORROSIVE LIQUID, N.O.S. (Benzalkonium chloride)
IMDG	:	CORROSIVE LIQUID, N.O.S. (Benzalkonium chloride)
IATA	:	Corrosive liquid, n.o.s.

14.3 Transport hazard class(es)

ADR	:	8
IMDG	:	8
IATA	:	8

14.4 Packing group

ADR		
Classification Code	:	C9
Packaging group	:	II
Hazard Identification Number	:	80
Labels	:	8
Tunnel restriction code	:	(E)
IMDG		
Packaging group	:	II
Labels	:	8
EmS Number	:	F-A, S-B
IATA		
(Cargo)	:	Corrosive liquid, n.o.s.
Packaging group	:	II
Labels	:	8

14.5 Environmental hazards

ADR		
Environmentally hazardous	:	yes
IMDG		
Marine pollutant	:	yes
IATA		
Environmentally hazardous	:	no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

14.7 Maritime transport in bulk according to IMO instruments
Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL HAZARDS	100 000067	200 000067

TA Luft List (Germany)	:	Total dust: Not applicable
	:	Inorganic substances in powdered form: Not applicable
	:	Inorganic substances in vapour or gaseous form: Not applicable
	:	Organic Substances: : portionClass 1: 10 %
	:	Carcinogenic substances: Not applicable
	:	Mutagenic: Not applicable
	:	Toxic to reproduction: Not applicable
Volatile organic compounds (VOC) content	:	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Update: Percent volatile: 10 %
according to Detergents Regulation EC 648/2004	:	<5% non-ionic surfactants, BENZALKONIUM CHLORIDE

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements

H302	:	Harmful if swallowed.
H312	:	Harmful in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H332	:	Harmful 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.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Skin Corr.	:	Skin corrosion
STOT SE	:	Specific target organ toxicity - single exposure
2006/15/EC	:	Europe. Indicative occupational exposure limit values
2006/15/EC / TWA	:	Limit Value - eight hours
2006/15/EC / STEL	:	Short term exposure limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:		**Classification procedure:**
Skin Corr. 1B	H314	Based on product data or assessment
Eye Dam. 1	H318	Based on product data or assessment
STOT SE 3	H335	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 2	H411	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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