

WM 0713966	Order number: 0712577	
Version 6.1	Revision Date 28.06.2018	Print Date 31.07.2019

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

1.1 Product identifier

Trade name	:	MANUDISH ORIGINAL 2 X 5 LITER
Identification number	:	61066

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

Use of the Substance/Mixture	:	Cleaning agent
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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)6131-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2

H319: Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms Signal word Warning : Hazard statements H319 Causes serious eye irritation. P102 Precautionary statements • Keep out of reach of children. **Prevention:** P280 Wear protective gloves/ eye protection. **Response:** P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for



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	P337 + P313 Disposal: P501	present and easy to If eye irritation pers attention.	emove contact lenses, if o do. Continue rinsing. ists: Get medical advice/ s/ container to an approved nt.

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. No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

: Aqueous surfactant solution.

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3 01-2119488639-16	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412 SCL 5 - < 10 % 2; H319 >= 10,0 % 1; H318	>= 5 - < 10
1-Propanaminium, 3-amino-N- (carboxymethyl)-N,N-dimethyl-, N- coco acyl derivs., hydroxides, inner salts	147170-44-3 931-296-8 01-2119488533-30	Eye Dam. 1; H318 Aquatic Chronic 3; H412 SCL > 4 - 10 % 2; H319 > 10,0 % 1; H318	>= 2 - < 2,5
D-Glucopyranose, oligomeric, C10- 16-alkyl glycosides	110615-47-9 01-2119489418-23	Skin Irrit. 2; H315 Eye Dam. 1; H318 SCL > 12 - 30 % 1; H318 1 - 12 % 2; H319	>= 1 - < 2

For explanation of abbreviations see section 16.



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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. If symptoms persist, call a physician.		
In case of skin contact	:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.		
In case of eye contact	:	Protect unharmed eye. If easy to do, remove contact lens, if worn. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.		
If swallowed	:	Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention.		
4.2 Most important symptoms and effects, both acute and delayed				
Symptoms	:	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 s	u	ostance 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



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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.
6.2 Environmental precautions	
Environmental precautions	: Do not flush into surface water or sanitary sewer system.
6.3 Methods and materials for con	tainment and cleaning up
Methods for cleaning up	: 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. 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	:	Store in original container. Keep container tightly closed in a dry and
and containers		well-ventilated place. Store at room temperature in the original



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Other data	container. : No decomposition if stored and applied as dire	cted.
7.3 Specific end use(s) Specific use(s)	: Cleaning agent	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL

Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3:	: End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 2750 mg/kg
	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 175 mg/m3
	End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 1650 mg/kg
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 52 mg/m3
	End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term systemic effects Value: 15 mg/kg
	End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term local effects Value: 0,132 mg/cm2
	End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term local effects Value: 0,079 mg/cm2



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1-Propanaminium, 3-amino-N- (carboxymethyl)-N,N- dimethyl-, N-coco acyl derivs., hydroxides, inner salts 147170-44-3:	: End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term system Value: 44 mg/m3	ic effects
	End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term system Value: 12,5 mg/kg	ic effects
	End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term system Value: 7,5 mg/kg	ic effects
	End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term system Value: 7,5 mg/kg	ic effects
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides 110615-47-9:	: End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term system Value: 595000 mg/kg	ic effects
	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term system Value: 420 mg/m3	ic effects
	End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term system Value: 357000 mg/kg	ic effects
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term system Value: 124 mg/m3	ic effects
	End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term system Value: 35,7 mg/kg	ic effects
PNEC		
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3:	: Fresh water Value: 0,24 mg/l	
	Marine water Value: 0,024 mg/l	
	STP	

STP



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	Value: 10000 mg/kg	
	intermittent release Value: 0,071 mg/l	
	Fresh water sediment Value: 5,45 mg/kg	
	Marine sediment Value: 0,545 mg/kg	
	Soil Value: 0,946 mg/kg	
1-Propanaminium, 3-amino-N- (carboxymethyl)-N,N- dimethyl-, N-coco acyl derivs., hydroxides, inner salts 147170-44-3:	: Fresh water Value: 0,0135 mg/l	
	Marine water Value: 0,00135 mg/l	
	STP Value: 3000 mg/l	
	Marine sediment Value: 0,1 mg/kg	
	Soil Value: 0,8 mg/kg	
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides 110615-47-9:	: Fresh water Value: 0,176 mg/l	
	Marine water Value: 0,018 mg/l	
	Fresh water sediment Value: 1,516 mg/kg	
	Marine sediment Value: 0,065 mg/kg	
	Soil Value: 0,654 mg/kg	
	STP Value: 5000 mg/l	
	intermittent release Value: 0,0295 mg/l	
8.2 Exposure controls		

8.2 Exposure controls



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Personal protective equipme	<u>t</u>		
Eye protection		re likely to occur, wear: safety goggles	
Hand protection			
Material	Chemical res	ed or repeated contact use p sistant gloves made of butyl according to EN 374-1: 2003	rubber or nitrile rubber
Remarks	permeability	the information given by the and break through times, and break through times, an nechanical strain, duration c	nd of special workplace
Skin and body protection	: not required	under normal use	
Respiratory protection		; except in case of aerosol f led Filter type: er	ormation.
Environmental exposure con	<u>rols</u>		
General advice	: Do not flush	into surface water or sanita	ry sewer system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: green
Odour	: neutral
Odour Threshold	: No data available
рН	: ca. 5,5
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Burning rate	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available



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Vapour pressure	: No data available	
Relative vapour density	: No data available	
Relative density	: No data available	
Density	: ca. 1,022 g/cm3	
Water solubility	: soluble	
Solubility in other solvents	: No data available	
Partition coefficient: n- octanol/water	: No data available	
Ignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity, dynamic	: ca. 500 mPa.s	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: 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 read	tions
Hazardous reactions	: Stable under recommended storage conditions., No decomposition if used as directed.
10.4 Conditions to avoid	
Conditions to avoid	: No data available
10.5 Incompatible materials	
Materials to avoid	: No data available
10.6 Hazardous decomposition pr	oducts
Hazardous decomposition products	: No hazardous decomposition products are known.
Other information	: No hazardous decomposition products are known.



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SECTION 11: Toxicological information

11.1 Information on toxicological eff	fects
Product	
Skin corrosion/irritation	: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.
Serious eye damage/eye irritation	: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.
Respiratory or skin sensitisation	: No data available
Further information	: No data available
<u>Components:</u> Alcohols, C12-14, ethoxylated, 68891-38-3:	sulfates, sodium salts
Acute oral toxicity	: LD50 Oral Rat: 4.100 mg/kg Method: OECD Test Guideline 401 GLP: no
Acute dermal toxicity	: LD50 Rat: > 2.000 mg/kg Method: OECD Test Guideline 402 GLP: yes
Skin corrosion/irritation	: Species: Rabbit Method: OECD Test Guideline 404
Serious eye damage/eye irritation	: Species: Rabbit Method: OECD Test Guideline 405
Respiratory or skin sensitisation	 Test Method: Maximisation Test Species: Guinea pig Result: Did not cause sensitisation on laboratory animals. Method: OECD Test Guideline 406
Germ cell mutagenicity	
Genotoxicity in vitro	: Result: negative Method: OECD Test Guideline 471
Reproductive toxicity	 Species: Rat Application Route: Oral NOAEL: > 300 mg/kg, F1: > 300 mg/kg, Method: OECD Test Guideline 416



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Teratogenicity :	Species: Rat Application Route: Oral >1.000 mg/kg > 1.000 mg/kg Method: OECD Test Guideline 414	
Repeated dose toxicity :	Rat: NOAEL: > 225 mg/kg	
	Application Route: Oral Exposure time: 90 Days Method: OECD Test Guideline 408 Target Organs: Liver	
STOT - repeated exposure :	Exposure routes: Ingestion Target Organs: Liver	
salts	boxymethyl)-N,N-dimethyl-, N-coco acyl	derivs., hydroxides, inner
147170-44-3: Acute oral toxicity :	LD50 Oral : > 8.000 mg/kg Method: OECD Test Guideline 401	
	LD50 Rat: 2.335 mg/kg	
Acute dermal toxicity :	LD50 Rat: > 2.000 mg/kg	
Reproductive toxicity :	Species: Rat Application Route: Oral NOAEL: 300 mg/kg	
Teratogenicity :	Species: Rat Application Route: Oral 1.000 mg/kg 100 mg/kg Method: see user defined free text	
Repeated dose toxicity :	Rat, male and female: NOAEL: 300 mg/k	g
	Application Route: Oral Exposure time: 90 d Method: see user defined free text	
D-Glucopyranose, oligomeric, C10	0-16-alkyl glycosides	
110615-47-9: Acute oral toxicity :	LD50 Oral : > 5.000 mg/kg	
Acute dermal toxicity :	LD50 Dermal : > 5.000 mg/kg Method: OECD Test Guideline 402	



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SECTION 12: Ecological information	n
12.1 Toxicity	
<u>Components:</u> Alcohols, C12-14, ethoxylated, sul 68891-38-3:	fates, sodium salts
Toxicity to fish :	LC50 (Danio rerio (zebra fish)): 7,1 mg/l Exposure time: 96 h Test Type: flow-through test Method: OECD Test Guideline 203 GLP: yes
	LC50 (Fish): > 1 - 10 mg/l Test Type: semi-static test Method: OECD Test Guideline 203
	LC50 (Leuciscus idus (Golden orfe)): 10 - 100 mg/l Method: OECD Test Guideline 203
	NOEC (Oncorhynchus mykiss (rainbow trout)): 0,14 mg/l Exposure time: 28 d Test Type: flow-through test Method: OECD Test Guideline 204
	LC50 (Brachydanio rerio (zebrafish)): 1 - 10 mg/l Test Type: flow-through test Method: OECD Test Guideline 203
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia pulex (Water flea)): 7,4 mg/l Test Type: Immobilization Method: OECD Test Guideline 202
	EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
	NOEC (Daphnia magna (Water flea)): 0,27 mg/l Exposure time: 21 d Test Type: flow-through test Method: OECD Test Guideline 211
Toxicity to algae :	EC50 (Desmodesmus subspicatus (green algae)): 27,7 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201 GLP: yes
	EC50 (Scenedesmus subspicatus): 10 - 100 mg/l Method: OECD Test Guideline 201



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	EC50 (Desmodesmus subspicatus Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201	
	NOEC : 0,95 mg/l Test Type: Growth inhibition Method: OECD Test Guideline 201	1
	NOEC (Desmodesmus subspicatu Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201	
Toxicity to bacteria	EC50 (Pseudomonas putida): > 10 Exposure time: 16 h Test Type: Cell multiplication inhib Method: DIN 38412 GLP: yes	
	EC10 (Pseudomonas putida): > 10 Test Type: Cell multiplication inhib GLP:	
Toxicity to fish (Chronic toxicity)	: NOEC: 1,2 mg/l	
	NOEC: 1 - 10 mg/l Species: Leuciscus idus (Golden o	orfe)
	NOEC: 0,14 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (ra Method: OECD Test Guideline 204	ainbow trout) 4
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	 NOEC: > 0,1 - 1 mg/l Exposure time: 21 d Species: Daphnia magna (Water fl Method: OECD Test Guideline 211 	
Toxicity to soil dwelling organisms	 NOEC: 750 mg/kg Exposure time: 96 d Species: Eisenia fetida (earthworm Method: OECD Test Guideline 222 	
1-Propanaminium, 3-amino-N-(o salts 147170-44-3:	boxymethyl)-N,N-dimethyl-, N-coc	o acyl derivs., hydroxides, inner
Toxicity to fish	 LC50 (Calamus penna): 1,11 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 	
	EC10 (Fish): 1,11 mg/l Exposure time: 96 h	



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		Method: OECD Test Guideline 203	
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 6,5 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202	
		EC50 (Daphnia magna (Water flea)): 0,3 mg/l Exposure time: 21 d Method: OECD Test Guideline 211	
Toxicity to algae	:	EC50 (Desmodesmus subspicatus (green algae Exposure time: 72 h GLP: yes	e)): 1,5 mg/l
Toxicity to bacteria	:	EC0 (Bacteria): > 3.000 mg/l GLP:	
Toxicity to fish (Chronic toxicity)	:	NOEC: 0,135 mg/l Exposure time: 100 d Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 210 GLP: yes	
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,32 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 GLP: yes	
D-Glucopyranose, oligomeric, C 110615-47-9:	C10	-16-alkyl glycosides	
Toxicity to fish	:	LC50 (Fish): > 1 - 10 mg/l Exposure time: 96 h Method: OECD Test Guideline 203	
		LC50 (Brachydanio rerio (zebrafish)): 2,95 mg/l Exposure time: 96 h Method: OECD Test Guideline 203	
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): > 10 - 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	
		EC50 (Daphnia magna (Water flea)): 7 mg/l Exposure time: 48 h	
Toxicity to algae	:	EC50 : > 10 - 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
		EC50 (Desmodesmus subspicatus (green algae Exposure time: 72 h Method: OECD Test Guideline 201	e)): 12,5 mg/l



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Toxicity to bacteria	: EC0 (Pseudomonas putida): > 100 mg/l Exposure time: 16 h Method: DIN 38412	
Toxicity to fish (Chronic toxicity)	 NOEC: > 1 mg/l Exposure time: 28 d Species: Brachydanio rerio Method: OECD Test Guideline 204 	
	NOEC: 1,8 mg/l Exposure time: 28 d Species: Brachydanio rerio Method: OECD Test Guideline 204	
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	 NOEC: > 1 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: see user defined free text 	
	EC10: 1,76 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202	
2 Persistence and degradability		
Product:		
Biodegradability	: Remarks: The surfactant(s) contained in this (comply) with the biodegradability criteria as (EC) No. 648/2004 on detergents.	
Components:		
Alcohols, C12-14, ethoxylated, s 68891-38-3:	sulfates, sodium salts	
Biodegradability	 Test Type: aerobic Result: rapidly biodegradable Biodegradation: > 70 % Exposure time: 28 d Method: OECD 301 A 	
1-Propanaminium, 3-amino-N-(c salts 147170-44-3:	arboxymethyl)-N,N-dimethyl-, N-coco acyl de	erivs., hydroxides, inner
Biodegradability	: Test Type: aerobic Concentration: 20 mg/l Result: rapidly biodegradable Biodegradation: 92 % Exposure time: 28 d Method: OECD 301 B	
	Test Type: anaerobic Concentration: 102,4 mg/l Biodegradation: 80 - 90 %	



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	Exposure time: 60 d Method: see user defined free text GLP: yes	
Chemical Oxygen Demand (COD)	: 1.000.000 mg/l	
D-Glucopyranose, oligome 110615-47-9:	ric, C10-16-alkyl glycosides	
Biodegradability	: Result: rapidly biodegradable Method: OECD Test Guideline 301	
12.3 Bioaccumulative potential		
<u>Components:</u> Alcohols, C12-14, ethoxyla 68891-38-3:	ted, sulfates, sodium salts	
Bioaccumulation	: Remarks: Bioaccumulation is unlikely.	
	ric, C10-16-alkyl glycosides	
110615-47-9: Partition coefficient: n- octanol/water	: log Pow: < -0,07 (20 °C)	
12.4 Mobility in soil		
<u>Components:</u> Alcohols, C12-14, ethoxyla 68891-38-3:	ted, sulfates, sodium salts	
Distribution among environmental compartments	: Adsorption/Soil Medium:Soil Koc: 191Method: see user defined free tex	t
12.5 Results of PBT and vPvB a	ssessment	
Product:		
Assessment	: This substance/mixture contains no compo either persistent, bioaccumulative and toxic and very bioaccumulative (vPvB) at levels	c (PBT), or very persistent
<u>Components:</u> Alcohols, C12-14, ethoxyla	ted, sulfates, sodium salts	
68891-38-3: Assessment	: This substance is not considered to be ver bioaccumulating (vPvB) This substance is persistent, bioaccumulating and toxic (PBT	s not considered to be
12.6 Other adverse effects		
Product:		
<u>i i o d d o ti</u>		



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	 Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	 Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.
Waste Code	European Waste Catalogue 200129 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

ADR Not dangerous goods IMDG Not dangerous goods ΙΑΤΑ Not dangerous goods

14.2 Proper shipping name Not regulated as a dangerous good

14.3 Transport hazard class

ADR Not dangerous goods IMDG Not dangerous goods ΙΑΤΑ Not dangerous goods

14.4 Packing group

ADR Not dangerous goods IMDG Not dangerous goods ΙΑΤΑ Not dangerous goods

14.5 Environmental hazards ADR Not dangerous goods IMDG



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Not regulated as a dangerous g IATA Not dangerous goods		
14.6 Special precautions for user Remarks	: Not classified as dangerous in the mea	ning of transport regulations.
For personal protection see sec	tion 8.	
14.7 Transport in bulk according to Not applicable for product as su	o Annex II of MARPOL 73/78 and the IBC Co pplied.	ode
SECTION 15: Regulatory inform	nation	
15.1 Safety, health and environmer	ntal regulations/legislation specific for the	substance or mixture
Regulation (EC) No 649/2012 of the Council concerning the expo chemicals		icable
Seveso III: Directive 2012/18/EU of the European Parliament and the Council on the control of major-accident hazards involvin dangerous substances.	of	
TA Luft List (Germany)	 Total dust: Not applicable Inorganic substances in powdered form Inorganic substances in vapour or gase 0,7 % Organic Substances: Not applicable Carcinogenic substances: Not applicable Mutagenic: Not applicable Toxic to reproduction: Not applicable 	eous form: : portionClass 3:
Volatile organic compounds (VOC) content	: Percent volatile: 0,24 % 29,9 g/l VOC content excluding water	
	: Percent volatile: 0,24 %	
Volatile organic compounds (VOC) content	2,47 g/l VOC content valid only for coating mate	erials used on wood surfaces

15.2 Chemical safety assessment There is no data available for this product.



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SECTION 16: Other information

Full text of H-Statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

Further information

Classification procedure:

H319

Calculation method

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS -Australian Inventory of Chemical Substances: 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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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