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> Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

hand cleaner power duo 250 ml Art.: 9080066

1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture:
Cosmetic preparation
Skin cleaning
Uses advised against:
No information available at present.

1.3 Details of the supplier of the safety data sheet

BTI Befestigungstechnik GmbH & Co. KG Salzstr. 51 74653 Ingelfingen Tel.: +49 7940 141 141 Fax: +49 7940 141 9141 Email: info@bti.de Homepage: www.bti.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number Emergency information services / official advisory body:

Telephone number of the company in case of emergencies: +49 (0) 700 / 24 112 112 (BRC) +1 872 5888271 (BRC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP) Cosmetics regulations are to be applied.

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP) Not applicable Cosmetics regulations are to be applied.



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2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a.

3.2 Mixtures

Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	
Registration number (REACH)	01-2119490225-39-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	273-257-1
CAS	68955-19-1
content %	5-<10
Classification according to Regulation (EC) 1272/2008	Skin Irrit. 2, H315
(CLP), M-factors	Eye Dam. 1, H318
	Aquatic Chronic 3, H412
Specific Concentration Limits and ATE	Eye Dam. 1, H318: >=20 %
	Eye Irrit. 2, H319: >=10 %

Isotridecanol, ethoxylated	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	9043-30-5
content %	1-<3
Classification according to Regulation (EC) 1272/2008	Eye Dam. 1, H318
(CLP), M-factors	

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-	
dimethyl-, N-(C12-18(even numbered) acyl) derivs.,	
hydroxides, inner salts	
Registration number (REACH)	01-2119513359-38-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	931-513-6
CAS	
content %	1-<3
Classification according to Regulation (EC) 1272/2008	Eye Dam. 1, H318
(CLP), M-factors	Aquatic Chronic 3, H412
Specific Concentration Limits and ATE	Eye Dam. 1, H318: >=10,00001 %
	Eye Irrit. 2, H319: >=4 %

Orange, sweet, ext.	
Registration number (REACH)	01-2119493353-35-XXXX
Index	



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EINECS, ELINCS, NLP, REACH-IT List-No.	232-433-8
CAS	8028-48-6
content %	0,25-<1
Classification according to Regulation (EC) 1272/2008	Flam. Liq. 3, H226
(CLP), M-factors	Skin Irrit. 2, H315
	Skin Sens. 1, H317
	Asp. Tox. 1, H304
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16. The substances named in this section are given with their actual, appropriate classification! For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected! Never pour anything into the mouth of an unconscious person! Inhalation Not required. Skin contact Wash in water. Eve contact Remove contact lenses. Wash thoroughly for several minutes using copious water. Seek medical help if necessary. Ingestion Rinse the mouth thoroughly with water. Give copious water to drink - consult doctor immediately. 4.2 Most important symptoms and effects, both acute and delayed If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. 4.3 Indication of any immediate medical attention and special treatment needed n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
Water jet spray/foam/CO2/dry extinguisher
Unsuitable extinguishing media
High volume water jet
5.2 Special hazards arising from the substance or mixture
In case of fire the following can develop:
Oxides of carbon
Oxides of nitrogen
Toxic gases
5.3 Advice for firefighters



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For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

No special measures required.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Do not pour down the drain undiluted.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

Flush residue using copious water.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Avoid contact with eyes.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.



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Store at room temperature.Store in a dry place.**7.3 Specific end use(s)**No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

	C12-18-alkyl esters, sodiu					_
Area of application	Exposure route / Environmental compartment	Effect on health	Descript or	Value	Unit	Note
	Environment - freshwater		PNEC	0,098	mg/l	
	Environment - marine		PNEC	0,009 8	mg/l	
	Environment - sporadic (intermittent) release		PNEC	0,15	mg/l	
	Environment - sewage treatment plant		PNEC	6,8	mg/l	
	Environment - sediment, freshwater		PNEC	3,45	mg/kg	
	Environment - sediment, marine		PNEC	0,345	mg/kg	
	Environment - soil		PNEC	0,631	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	2440	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	85	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	24	mg/kg bw/d	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	4060	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	285	mg/m3	

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs.,							
hydroxides, inner salts	5						
Area of application	Area of application Exposure route / Effect on health Descript Value Unit Note						
	Environmental		or				
	compartment						
	Environment -		PNEC	0,013	mg/l		
	freshwater			5			



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	Environment - marine		PNEC	0,001 35	mg/l
	Environment - sewage treatment plant		PNEC	3000	mg/l
	Environment - sediment, freshwater		PNEC	1	mg/kg dw
	Environment - sediment, marine		PNEC	0,1	mg/kg dw
	Environment - soil		PNEC	0,8	mg/kg dw
Consumer	Human - dermal	Long term, systemic effects	DNEL	7,5	mg/kg bw/day
Consumer	Human - oral	Long term, systemic effects	DNEL	7,5	mg/kg bw/day
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	44	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	12,5	mg/kg bw/day

Orange, sweet, ext.						
Area of application	Exposure route / Environmental compartment	Effect on health	Descript or	Value	Unit	Note
	Human - inhalation	Short term, local effects	DNEL	7,78	mg/m3	
	Human - dermal	Short term	DNEL	0,929	mg/cm2	
	Environment - freshwater		PNEC	5,4	mg/l	
	Environment - marine		PNEC	0,54	mg/l	
	Environment - periodic release		PNEC	5,77	mg/l	
	Environment - sediment, freshwater		PNEC	1,3	mg/kg dry weight	
	Environment - sediment, marine		PNEC	0,13	mg/kg dry weight	
	Environment - soil		PNEC	0,261	mg/kg dry weight	
	Environment - sewage treatment plant		PNEC	2,1	mg/l	
	Environment - oral (animal feed)		PNEC	13,3	mg/kg feed	
Consumer	Human - oral	Long term	DNEL	4,44	mg/kg body weight/d ay	



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Consumer	Human - dermal	Long term	DNEL	4,44	mg/kg	
					bw/day	
Workers / employees	Human - dermal	Long term	DNEL	8,89	mg/kg	
					bw/day	
Workers / employees	Human - dermal	Short term	DNEL	0,185	mg/cm2	
				8		
Workers / employees	Human - inhalation	Long term	DNEL	31,1	mg/m3	

8.2 Exposure controls 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection

should be worn.

Applies only if maximum permissible exposure values are listed here.

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Normally not necessary.

Skin protection - Hand protection: Normally not necessary.

Skin protection - Other: Normally not necessary.

Respiratory protection: Normally not necessary.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

B



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No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1 Information on basic physical and chemical prope	
Physical state:	Paste
Colour:	Beige
Odour:	Orange
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	~100 °C
Flammability:	Flammable
Lower explosion limit:	n.a.
Upper explosion limit:	n.a.
Flash point:	>100 °C
Auto-ignition temperature:	No
Decomposition temperature:	There is no information available on this parameter.
pH:	6,0-6,9 (20°C)
Kinematic viscosity:	15-30 Pas (Dynamic viscosity)
Solubility:	Soluble
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	~23,3 mPa (20°C)
Density and/or relative density:	0,82-0,95 g/cm3 (20°C)
Relative vapour density:	There is no information available on this parameter.
Particle characteristics:	Does not apply to liquids.
9.2 Other information	
Explosives:	Product is not explosive. Possible build up of
•	explosive/highly flammable vapour/air mixture.
Oxidising liquids:	No
Bulk density:	n.a.
Solubility(ies):	Alcohols, partially

SECTION 10: Stability and reactivity

10.1 Reactivity
Not to be expected
10.2 Chemical stability
Stable with proper storage and handling.
10.3 Possibility of hazardous reactions
No dangerous reactions are known.
10.4 Conditions to avoid
Strong heat
10.5 Incompatible materials
Avoid contact with strong oxidizing agents.
Avoid contact with strong acids.
10.6 Hazardous decomposition products
See also section 5.2
No decomposition when 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

Possibly more	information of	on health effects.	see Section 2.1 (classification).

Art.: 9080066								
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes		
	nt							
Acute toxicity, by oral						n.d.a.		
route:								
Acute toxicity, by						n.d.a.		
dermal route:								
Acute toxicity, by						n.d.a.		
inhalation:								
Skin corrosion/irritation:						n.d.a.		
Serious eye						n.d.a.		
damage/irritation:								
Respiratory or skin						n.d.a.		
sensitisation:								
Germ cell mutagenicity:						n.d.a.		
Carcinogenicity:						n.d.a.		
Reproductive toxicity:						n.d.a.		
Specific target organ						n.d.a.		
toxicity - single								
exposure (STOT-SE):								
Specific target organ						n.d.a.		
toxicity - repeated								
exposure (STOT-RE):								
Aspiration hazard:						n.d.a.		
Symptoms:						n.d.a.		

Sulfuric acid, mono-C12	-18-alkyl e	sters, sodiur	n salts			
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	LD50	>2000	mg/kg	Rat		
route:						
Acute toxicity, by	LD50	>2000	mg/kg	Rabbit		Expert
dermal route:						judgement
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Skin Irrit. 2
					Dermal	
					Irritation/Corrosio	
					n)	
Serious eye				Rabbit	OECD 405 (Acute	Eye Dam. 1
damage/irritation:					Eye	
					Irritation/Corrosio	
					n)	
Serious eye		<10	%			Eye Irrit. 2
damage/irritation:						
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not
sensitisation:					Sensitisation)	sensitizising



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Germ cell mutagenicity:	Salmonella	OECD 471	Negative
	typhimuri	(Bacterial Reverse	
	um	Mutation Test)	
Germ cell mutagenicity:	Mouse	OECD 474	Negative
		(Mammalian	
		Erythrocyte	
		Micronucleus	
		Test)	

Isotridecanol, ethoxyla	ated					
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by	LD50	>2000	mg/kg	Rabbit		
dermal route:						
Serious eye						Risk of
damage/irritation:						serious
						damage to
						eyes.
Respiratory or skin						Not
sensitisation:						sensitizising
Symptoms:						drying of the
						skin.

1-Propanaminium, 3-am	ino-N-(car	boxymethyl)	-N,N-dime	thyl-, N-(C12	-18(even numbered)	acyl) derivs.,
hydroxides, inner salts						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	LD50	>2000	mg/kg	Rat	OECD 401 (Acute	
route:					Oral Toxicity)	
Acute toxicity, by	LD50	>2000	mg/kg	Rat	OECD 402 (Acute	
dermal route:					Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosio	
					n)	
Serious eye				Rabbit	OECD 405 (Acute	Corrosive
damage/irritation:					Eye	
					Irritation/Corrosio	
					n)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not
sensitisation:					Sensitisation)	sensitizising
Germ cell mutagenicity:					OECD 476 (In	Negative
					Vitro Mammalian	
					Cell Gene	
					Mutation Test)	
Reproductive toxicity:	NOEL	300-1000	mg/kg	Rat	OECD 414	Female
					(Prenatal	
					Developmental	
					Toxicity Study)	



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Specific target organ	NOEL	300	mg/kg	OECD 408
toxicity - repeated				(Repeated Dose
exposure (STOT-RE),				90-Day Oral
oral:				Toxicity Study in
				Rodents)

Orange, sweet, ext.						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt			_		
Acute toxicity, by oral	LD50	4400	mg/kg	Rat		
route:						
Acute toxicity, by	LD50	>2000	mg/kg	Rabbit		
dermal route:						
Skin corrosion/irritation:						Irritant
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosio	
					n)	
Respiratory or skin					OECD 429 (Skin	Sensitising
sensitisation:					Sensitisation -	(skin
					Local Lymph	contact)
					Node Assay)	
Germ cell mutagenicity:						Negative
Reproductive toxicity	NOAEL	591	mg/kg	Rat		
(Developmental			bw/d			
toxicity):						
Specific target organ	LOAEL	1000	mg/kg	Mouse		
toxicity - repeated			bw/d			
exposure (STOT-RE):						
Aspiration hazard:						Yes
Symptoms:						mucous
						membrane
						irritation

11.2. Information on other hazards

hand cleaner power duo 250 ml								
Art.: 9080066								
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes		
	nt							
Endocrine disrupting						Does not		
properties:						apply to		
						mixtures.		
Other information:						No other		
						relevant		
						information		
						available on		
						adverse		
						effects on		
						health.		



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SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

Art.: 9080066 Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	F						n.d.a.
fish:							
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to							n.d.a.
algae:							
12.2. Persistence							The
and degradability:							surfactant(s)
							contained in
							this mixture
							complies(co
							mply) with
							the
							biodegradat
							lity criteria
							as laid down
							in
							Regulation
							(EC)
							No.648/200
							on
							detergents.
							Data to
							support this
							assertion are
							held at the
							disposal of
							the
							competent
							authorities
							of the
							Member
							States and
							will be mad
							available to
							them, at
							their direct
							request or a
							the request
							of a
							detergent
							manufacture



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12.3.			n.d.a.
Bioaccumulative			
potential:			
12.4. Mobility in			n.d.a.
soil:			
12.5. Results of			n.d.a.
PBT and vPvB			
assessment			
12.6. Endocrine			Does not
disrupting			apply to
properties:			mixtures.
12.7. Other			No
adverse effects:			information
			available on
			other
			adverse
			effects on
			the
			environment.
Other information:			According
			to the recipe,
			contains no
			AOX.

Sulfuric acid, mono	o-C12-18-alky	vl esters,	sodium s	alts			
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	17	mg/l		84/449/EEC	
fish:				-		C.1	
12.1. Toxicity to	NOEC/NO	34d	0,35	mg/l	Pimephales	OECD 210	Analogous
fish:	EL			-	promelas	(Fish, Early-	conclusion
						Life Stage	
						Toxicity Test)	
12.1. Toxicity to	NOEC/NO		<0,41	mg/l	Ceriodaphnia		
daphnia:	EL		9		spec.		
12.1. Toxicity to	EC50	48h	15	mg/l	Daphnia	84/449/EEC	
daphnia:				-	magna	C.2	
12.1. Toxicity to	ErC50	72h	20	mg/l		84/449/EEC	
algae:				-		C.3	
12.1. Toxicity to	NOEC/NO		3	mg/l	Desmodesmus	84/449/EEC	
algae:	EL				subspicatus	C.3	



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12.2. Persistence		28d	93	%		Regulation	Readily
and degradability:						(EČ)	biodegradabl
с ,						440/2008 C.4-	e
						C	
						(DETERMIN	
						ATION OF	
						'READY'	
						BIODEGRAD	
						ABILITY -	
						CO2	
						EVOLUTION	
						TEST)	
12.3.	Log Pow		-2,1			OECD 107	
Bioaccumulative						(Partition	
potential:						Coefficient (n-	
						octanol/water)	
						- Shake	
						Flask Method)	
Toxicity to	EC0		>10 -	mg/l	Pseudomonas		
bacteria:	5050		100		putida		
Toxicity to	EC50	3h	680	mg/l	activated	Regulation	
bacteria:					sludge	(EC)	
						440/2008	
						C.11	
						(BIODEGRA	
						DATION -	
						ACTIVATED	
						SLUDGE	
						RESPIRATIO	
						N	
				1		INHIBITION)	

Isotridecanol, ethoxylated							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	1-10	mg/l	Cyprinus	OECD 203	
fish:					caprio	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	EC50	48h	1-10	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	EC50	72h	1-10	mg/l	Scenedesmus	OECD 201	
algae:					subspicatus	(Alga,	
						Growth	
						Inhibition	
						Test)	



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12.2. Persistence	28d	>70	%	OECD 301 A
and degradability:				(Ready
				Biodegradabil
				ity - DOC
				Die-Away
				Test)
12.2. Persistence	28d	>60	%	OECD 301 B
and degradability:				(Ready
				Biodegradabil
				ity - Co2
				Evolution
				Test)

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs.,							
hydroxides, inner		-					.
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	1,11	mg/l		OECD 203	
fish:						(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	NOEC/NO	96h	0,54	mg/l	Pimephales	OECD 203	
fish:	EL				promelas	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	NOEC/NO	21d	0,9-1	mg/l	Daphnia	OECD 211	
daphnia:	EL			U	magna	(Daphnia	
1					U	magna	
						Reproduction	
						Test)	
12.1. Toxicity to	NOEC/NO	72h	0,36	mg/l		ISO 10253	
algae:	EL	/ 211	0,50	1116/1		100 10200	
12.2. Persistence		28d	91,6	%		OECD 301 B	Readily
and degradability:		204	,0	/0		(Ready	biodegradabl
and degradaointy.						Biodegradabil	e
						ity - Co2	(Analogous
						Evolution	conclusion)
						Test)	
12.3.	Log Pow		4,2				
Bioaccumulative	Log Fow		4,2				
potential:	DOF		0.71				1 1 . 1
12.3.	BCF		3-71				calculated
Bioaccumulative							value
potential:							
Toxicity to	LC0	14d	1000	mg/kg	Eisenia	OECD 220	
annelids:				dw	foetida	(Enchytraeid	
						Reproduction	
						Test)	

Orange, sweet, ext.							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	0,7	mg/l	Pimephales	OECD 203	
fish:					promelas	(Fish, Acute	
					_	Toxicity Test)	



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12.1. Toxicity to daphnia:	EC50	48h	0,67	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisatio n Test)	LIMONENE
12.1. Toxicity to algae:	ErC50	72h	150	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NO EL	96h	4	mg/l			
12.2. Persistence and degradability:		28d	72- 83,4	%		OECD 301 B (Ready Biodegradabil ity - Co2 Evolution Test)	Readily biodegradabl e
12.2. Persistence and degradability:		28d	>90	%		OECD 301 D (Ready Biodegradabil ity - Closed Bottle Test)	Readily biodegradabl e
12.3. Bioaccumulative potential:	BCF		32- 156				
12.3. Bioaccumulative potential:	Log Pow		>4				A notable biological accumulation potential has to be expected (LogPow > 3).
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Other information:							Does not contain any organically bound halogens which can contribute to the AOX value in waste water.
Water solubility:			3,48- 1767, 3	mg/l			25°C



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts EC disposal code no .: The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU) 07 06 01 aqueous washing liquids and mother liquors Recommendation: Sewage disposal shall be discouraged. Pay attention to local and national official regulations. E.g. dispose at suitable refuse site. E.g. suitable incineration plant. For contaminated packing material Pay attention to local and national official regulations. Empty container completely. Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

General statements								
14.1. UN number or ID number:	n.a.							
Transport by road/by rail (ADR/RID)								
14.2. UN proper shipping name:								
14.3. Transport hazard class(es):	n.a.							
14.4. Packing group:	n.a.							
Classification code:	n.a.							
LQ:	n.a.							
14.5. Environmental hazards:	Not applicable							
Tunnel restriction code:								
Transport by sea (IMDG-code)								
14.2. UN proper shipping name:								
14.3. Transport hazard class(es):	n.a.							
14.4. Packing group:	n.a.							
Marine Pollutant:	n.a							
14.5. Environmental hazards:	Not applicable							
Transport by air (IATA)								
14.2. UN proper shipping name:								
14.3. Transport hazard class(es):	n.a.							
14.4. Packing group:	n.a.							
14.5. Environmental hazards:	Not applicable							
14.6. Special precautions for user								
Unless specified otherwise, general measures for safe transport must be followed.								
14.7. Maritime transport in bulk according to IMO instruments								
Non-dangerous material according to Transport Regulations.								



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SECTION 15: Regulatory information

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

Observe restrictions: General hygiene measures for the handling of chemicals are applicable.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

1-16

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Not applicable

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3). H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. 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.

Skin Irrit. - Skin irritation Eye Dam. — Serious eye damage Aquatic Chronic - Hazardous to the aquatic environment - chronic Flam. Liq. — Flammable liquid Skin Sens. - Skin sensitization Asp. Tox. - Aspiration hazard Aquatic Acute - Hazardous to the aquatic environment - acute

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended. Guidelines for the preparation of safety data sheets as amended (ECHA). Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA). Safety data sheets for the constituent substances. ECHA Homepage - Information about chemicals. **GESTIS** Substance Database (Germany). German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany). EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended. National Lists of Occupational Exposure Limits for each country as amended.

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Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Art., Art. no. Article number ASTM ASTM International (American Society for Testing and Materials) ATE Acute Toxicity Estimate BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF Bioconcentration factor BSEF The International Bromine Council bw body weight CAS **Chemical Abstracts Service** CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) European Community EC ECHA European Chemicals Agency ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect EEC European Economic Community EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European List of Notified Chemical Substances EN European Norms EPA United States Environmental Protection Agency (United States of America) ErCx, $E\mu Cx$, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) etc. et cetera EU European Union EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number general gen. Globally Harmonized System of Classification and Labelling of Chemicals GHS GWP Global warming potential Adsorption coefficient of organic carbon in the soil Koc Kow octanol-water partition coefficient



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REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Telephone Tel.

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

- vPvB very persistent and very bioaccumulative
- wet weight wwt

(GB)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.