

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 **TWEHA CLEANER+**

Version 1.0

Print Date 26.02.2021

Revision date / valid from 26.08.2020

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

1.1. Product identifier

Trade name	:	TWEHA CLEANER+ - DRUM 160KG
Substance name	:	propan-2-ol
Index-No.	:	603-117-00-0
CAS-No.	:	67-63-0
EC-No.	:	200-661-7
EU REACH-Reg. No.	:	01-2119457558-25-xxxx

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

Use of the Substance/Mixture	:	Identified use: See table in front of appendix for a complete overview of identified uses.
Uses advised against	:	At this moment we have not identified any uses advised against
Remarks	:	Before referring to any Exposure Scenario attached to this Safety Data Sheet please check the grade of the product: the Exposure Scenarios presented are not related to all product grade

1.3. Details of the supplier of the safety data sheet

Company	:	TWEHA CCS BV
		Lepelstraat 1,2.01
		BE 3920 Lommel
Telephone	:	+31 (0)88 600 3 600
E-mail address	:	info@tweha.com
Responsible/issuing	:	Master Data Administration
person		

1.4. Emergency telephone number

Emergency telephone	: Belgium: Antipoison Center - Brussels TEL: +32(0)70 245 245
Number	: Netherlands: National Poisoning Information Center - Bilthoven TEL:
+31(0)30 274 8888 (Only fo	or the purpose of informing medical personnel in cases of acute
intoxications)	



SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

	REGULATIO	DN (EC) No	1272/2008	
Hazard class	Hazard ca	ategory	Target Organs	Hazard statements
Flammable liquids	Catego	ory 2		H225
Eye irritation	Catego	ory 2		H319
Specific target organ toxic - single exposure	ity Catego	ory 3	Central nervous system	H336
For the full text of the H-S	Statements ment	ioned in this	Section, see Sectio	n 16.
Most important adverse	effects			
Human Health	: See sectio	n 11 for toxi	cological information).
Physical and chemical hazards	: See sectio	n 9/10 for pł	ysicochemical infor	mation.
Potential environmental effects	: See sectio	n 12 for env	ironmental informati	on.
Label elements				
Label elements Labelling according to	Regulation (EC)) No 1272/20	008	
	Regulation (EC)	No 1272/20	008	
Labelling according to	Regulation (EC) : : : Danger	No 1272/20	008	
Labelling according to Hazard symbols		Hig Cau	008 hly flammable liquid ises serious eye irrit v cause drowsiness	ation.
Labelling according to Hazard symbols Signal word	: Danger : H225 H319	Hig Cau	hly flammable liquid uses serious eye irrit	ation.



			P261 P280	open flames and other ignition sources. No smoking. Avoid breathing vapours/spray. Wear protective gloves/ eye protection/ face protection.	
	Response	:	P305 + P351 + P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
			P304 + P340 + P	•	
	Storage	:	P403 + P235	Store in a well-ventilated place. Keep cool.	
	Hazardous components v	whic	h must be listed	on the label:	
	• propan-2-ol				
2.3.	Other hazards				
	For Results of PBT and vPvB assessment see section 12.5.				
SEC	TION 3: Composition/inf	forn	nation on ingred	lients	
3.1.	Substances		-		
				Classification	
				(REGULATION (EC) No 1272/2008)	
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			(REGULATION (EC) No 1272/2008)
Haza	rdous components	Amount [%]	Hazard class / Hazard category	Hazard statements
propan-2-ol				
Index-No. CAS-No. EC-No. EU REACH- Reg. No.	: 603-117-00-0 : 67-63-0 : 200-661-7 : 01-2119457558-25-xxxx	<= 100	Flam. Liq.2 Eye Irrit.2 STOT SE3	H225 H319 H336

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice : Remove from exposure, lie down. Take off all contaminated

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		clothing immediately.	
	If inhaled	: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position. Consult a physician after significant exposure.	
	In case of skin contact	: Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.	
	In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.	
	If swallowed	: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Call a physician immediately.	
4.2.	Most important symptoms	and effects, both acute and delayed	
	Symptoms	: Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. See Section 11 for more detailed information on health effects and symptoms.	
	Effects	: See Section 11 for more detailed information on health effects and symptoms.	
4.3.	Indication of any immediat	te medical attention and special treatment needed	
	Treatment	: Treat symptomatically.	
SEC	TION 5: Firefighting meas	sures	
5.1.	Extinguishing media		
	Suitable extinguishing media Unsuitable extinguishing media	 Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. High volume water jet 	
5.2.		om the substance or mixture	
-			
	Specific hazards during firefighting	 The vapour may be invisible, heavier than air and spread along ground. Vapours may form explosive mixtures with air. Flash back possible over considerable distance. 	
	Hazardous combustion products	: Carbon monoxide, Carbon dioxide (CO2)	
5.3.	Advice for firefighters		
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	Special protective	In the event of fire, wear calf contained breathing	
	equipment for firefighters Further advice	 In the event of fire, wear self-contained breathing apparatus.Wear personal protective equipment. Cool closed containers exposed to fire with water spray.Heating will cause a pressure rise - with risk of bursting.Collect contaminated fire extinguishing water separately. This must not be discharged into drains. 	
SECTI	ION 6: Accidental release	emeasures	
6.1. F	Personal precautions, prote	ctive equipment and emergency procedures	
	Personal precautions	: Keep away from heat and sources of ignition. Use personal protective equipment. Keep away unprotected persons. Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours or spray mist.	
6.2. E	Environmental precautions		
	Environmental precautions	: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.	
6.3. N	Methods and materials for c	ontainment and cleaning up	
	Methods and materials for : (containment and cleaning up	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).	
6.4. F	Reference to other sections		
	See Section 1 for emergency See Section 8 for information See Section 13 for waste tre	n on personal protective equipment.	
SECTI	ION 7: Handling and stora	age	
7.1. F	Precautions for safe handlir	ng	
	Advice on safe handling	: Keep container tightly closed. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.	
	Hygiene measures	: Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.	
7.2. (Conditions for safe storage,	including any incompatibilities	
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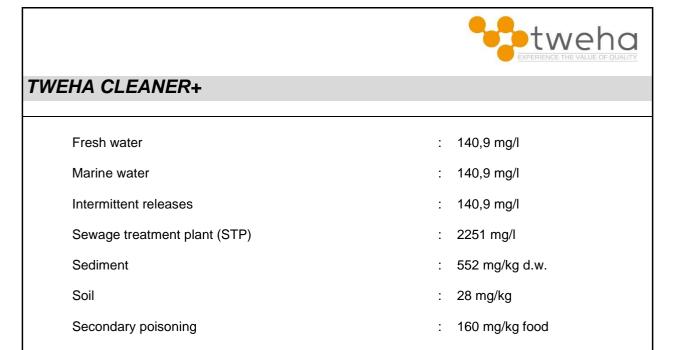


	Requirements for storage areas and containers	: Store in original container. Keep in an area equipped with solvent resistant flooring. Unsuitable materials for containers: Aluminium; polystyrene; ethylene propylene diene rubber; butyl- rubber; natural rubber; cast iron
	Advice on protection against fire and explosion	: Keep away from sources of ignition - No smoking. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Take measures to prevent the build up of electrostatic charge. Use only in an area containing explosion proof equipment.
	Further information on storage conditions	: Keep tightly closed in a dry and cool place. Keep away from direct sunlight. Keep in a well-ventilated place.
	Advice on common storage	: Incompatible with oxidizing agents. Do not store together with oxidizing and self-igniting products. Keep away from food, drink and animal feedingstuffs.
	Suitable packaging materials	: Stainless steel
7.3.	Specific end use(s)	
	Specific use(s)	: Identified use: See table in front of appendix for a complete overview of identified uses.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component:	propan-2-ol		CAS-No. 67-63-0
Derived No Effe	ect Level (DNEL)/Derived Minin	nal Effe	ect Level (DMEL)
DNEL Workers, Long-term - sy	stemic effects, Skin contact	:	888 mg/kg bw/day
DNEL Workers, Long-term - sy	stemic effects, Inhalation	:	500 mg/m3
DNEL Consumers, Long-term -	systemic effects, Skin contact	:	319 mg/kg bw/day
DNEL Consumers, Long-term -	systemic effects, Inhalation	:	89 mg/m3
DNEL Consumers, Long-term -	systemic effects, Ingestion	:	26 mg/kg bw/day
P	redicted No Effect Concentration	on (PN	EC)
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Other Occupational Exposure Limit Values

Belgium. OELs. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1, as amended, Time Weighted Average (TWA): 200 ppm, 500 mg/m3

Belgium. OELs. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1, as amended, Short Term Exposure Limit (STEL): 400 ppm, 1.000 mg/m3, (15 minutes)

8.2. Exposure controls

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Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice :	In case of insufficient ventilation, wear suitable respiratory equipment. When aerosol or mist is formed use suitable respiratory protection. Respiratory protection complying with EN 141. Recommended Filter type:A Combination filter: A-P2 In case of intensive or longer exposure use self-contained breathing apparatus.	
Hand protection		
Advice :	Protective gloves complying with EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Protective gloves should be replaced at first signs of wear.	
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Material Break through time Glove thickness	: >= 8					
Material Break through time Glove thickness	: >= 8					
Material Break through time Glove thickness	: >= 8					
Eye protection						
Advice	: Safet	ety goggles				
Skin and body protec	ction					
Advice	: Solve	vent resistant protective clothing				
Environmental expos	sure contro	rols				
General advice	General advice : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.					
SECTION 9: Physical and	d chemica	al properties				
9.1. Information on basic	physical a	and chemical properties				
Form		: liquid				
Colour		: colourless clear				
Odour		: alcohol-like				
Odour Threshold		: no data available				
рН		: no data available				
Melting point/range		: -89 °C				
Boiling point/boiling r	ange	: 82 °C (ASTM D1078)				
Flash point		: 12 °C (Method: ASTM D 56)				
Evaporation rate		: 3,9 (Butyl Acetate = 1)				
Flammability (solid, g	jas)	: Not applicable				
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	Upper explosion limit		:	13 %(V)		
	Lower explosion limit		:	2 %(V)		
	Vapour pressure Relative vapour density		:	43 hPa (20 °C)		
			:	> 1 (Air = 1.0)		
	Relative density		:	0,786 (20 °C)		
	Water solubility		:	completely soluble		
	Partition coefficient: n-octanol/	water	:	log Kow 0,05		
	Auto-ignition temperature		:	> 350 °C		
	Thermal decomposition		:	no data available		
	Viscosity, dynamic		:	2,5 mPa.s (20 °C)		
	Viscosity, kinematic		:	2,66 mm2/s (25 °C) (ASTM D 7042)		
	Explosivity		:	Product is not explosive.Formation of explosive air/vapour mixtures is possible.		
	Oxidizing properties		:	not oxidising		
9.2.	Other information					
	Molecular weight		:	60,10 g/mol		
SEC	FION 10: Stability and reactiv	vity				
10.1.	Reactivity					
	Advice : No dec		om	position if stored and applied as directed.		
10.2.	Chemical stability					
	Advice : S	: Stable under recommended storage conditions.				
10.3.	8. Possibility of hazardous reactions					
	Hazardous reactions: Possible formation of peroxide.Note: Formation of explosive air/vapour mixtures is possible.					
10.4.	.4. Conditions to avoid					
	Conditions to avoid : H	leat, fla	am	es and sparks.		
10.5.	Incompatible materials					
				dizing agents, Amines, Aldehydes, alkanolamines, rong acids		
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10.6. Hazardous decomposition products

Hazardous decomposition : Under fire conditions: Carbon oxides products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Component:	propan-2-ol CAS-No. 67-63-0
	Acute toxicity
	Oral
LD50	: 5840 mg/kg (Rat) (OECD Test Guideline 401)
	Inhalation
LC50	: > 25 mg/l (Rat; 6 h; vapour) (OECD Test Guideline 403)
	Dermal
LD50	: 13900 mg/kg (Rabbit) (OECD Test Guideline 402)
	Irritation
	Skin
Result	: No skin irritation (OECD Test Guideline 404)Degreases the skin which may cause dry and rough. Prolonged or repeated skin contact may result in dermatitis.
	Eyes
Result	: Eye irritation (OECD - Guideline 405)Splashes in eyes may cause strong pain. Vapour acts irritant.
	Sensitisation
Result	: not sensitizing (Buehler Test; Dermal; Guinea pig) (OECD Test Guideline 406)
	CMR effects
	Carcinogenicity
NOEL	: 5.000 ppm (negative, Mouse, male and female)(Inhalation; 0, 500, 2500, 5000
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	ppm; 78 weeks; Frequency of treatment: 5 days/week)(OECD Test Guideline 451)
	CMR Properties
Carcinogenicity Mutagenicity Teratogenicity Reproductive toxicity	 Based on available data, the classification criteria are not met. In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects No effects on or via lactation Based on available data, the classification criteria are not met.
	Genotoxicity in vitro
Result	 negative (Bacterial Reverse Mutation Test; Salmonella typhimurium; with and without metabolic activation) (OECD Test Guideline 471) negative (In vitro gene mutation study in mammalian cells; CHO (Chinese Hamster Ovary) cells; with and without metabolic activation) (OECD Test Guideline 476)
	Genotoxicity in vivo
Result	: negative (In vivo micronucleus test; Mouse, male and female) (intraperitoneal;) (OECD Test Guideline 474)
	Teratogenicity
NOAEL Maternal NOAEL Develop.	 : 400 mg/kg bw/day : 400 mg/kg bw/day (Rat, Sprague-Dawley)(Oral)(OECD Test Guideline 414)No adverse effects
	Reproductive toxicity
NOAEL Parent NOAEL Parent	 853 mg/kg bw/day (One-Generation Reproduction Toxicity Study; Rat, wistar, male and female)(Oral)(OECD Test Guideline 415)No negative effects. 500 mg/kg bw/day (Two-generation reproductive toxicity; Rat, Sprague-Dawley, male and female)(Oral)(OECD Test Guideline 416)No negative effects.
	Specific Target Organ Toxicity
	Single exposure
Inhalation	: Target Organs: Central nervous systemMay cause drowsiness or
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	dizziness.
	Repeated exposure
Remarks	: Oral and inhalation repeated exposure studies demonstrated targe organ effects in male rats (kidney) and male and female mice (thyroid) by mechanisms of action that are not relevant to humans
	Other toxic properties
	Aspiration hazard
	Aspiration hazard if swallowed - can enter lungs and cause damage. Aspiration may cause pulmonary oedema and pneumonitis. Based on available data, the classification criteria are not met.,
TION 12: Ecolog	jical information
. Toxicity	
Component:	propan-2-ol CAS-No. 67-63-0
	Acute toxicity
	Fish
LC50	: 9.640 mg/l (Pimephales promelas; 96 h) (flow-through test; OECD Test Guideline 203)
	Toxicity to daphnia and other aquatic invertebrates
LC50	: 9.714 mg/l (Daphnia magna; 24 h) (static test; OECD Test Guideline 202)
	algae
	: > 100 mg/l (Scenedesmus subspicatus; 72 h)
EC50 LOEC	1000 mg/l (algae; 8 d)
	1000 mg/l (algae; 8 d) Bacteria



12 2	Persistence and degrad	lability						
12.2	i ersistence and degrad	admity						
	Component:	propan-2-ol	CAS-No. 67-63-0					
		Persistence and degradability						
Persistence								
	Result	: Transformation due to hydrolysis not ex Transformation due to photolysis not ex						
_		Biodegradability						
	Result	: 53 % (aerobic; domestic sewage; Relat Exposure Time: 5 d)(Directive 67/548/E biodegradable.						
12.3	Bioaccumulative poten	tial						
	Component:	propan-2-ol	CAS-No. 67-63-0					
÷		Bioaccumulation						
-		Diodocalitatation						
	Result	log Kow 0,05Bioaccumulation is not expected.						
12.4	Mobility in soil							
	Component:	propan-2-ol	CAS-No. 67-63-0					
1		Mobility						
	Water	: The product is water soluble.						
	Soil	: Mobile in soils						
12.5	Results of PBT and vPv	/B assessment						
	Component:	propan-2-ol	CAS-No. 67-63-0					
		Results of PBT and vPvB assessment						
	Result	: This substance is not considered to be nor toxic (PBT)., This substance is not persistent and very bioaccumulating (v	considered to be very					
12.6	Other adverse effects							
T	Data for the product							
		Additional ecological information						
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Result :	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.			
SECTION 13: Disposal consi	derations			
13.1. Waste treatment methods				
Product	: Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.			
Contaminated packaging	: Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations. Do not burn, or use a cutting torch on, the empty drum. Risk of explosion.			
European Waste Catalogue Number	: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.			
SECTION 14: Transport infor	mation			
14.1. UN number				
1219				
14.2. UN proper shipping name				
ADR : TWEHA CL RID : TWEHA CL IMDG : TWEHA CL	EANER+			
14.3. Transport hazard class(es)			
ADR-Class (Labels; Classification Coo Identification Number; Tur code)	-, - ,, ()			
RID-Class (Labels; Classification Coo Identification Number)				
IMDG-Class (Labels; EmS)	: 3 3; F-E, S-D			
14.4. Packaging group				
ADR : II RID : II IMDG : II				



14.5. Environmental hazards

Environmentally hazardous according to ADR	: no
Environmentally hazardous according to RID	: no
Marine Pollutant according to IMDG-Code	: no

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

SECTION 15: Regulatory information

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

Component:		propan-2-ol	CAS-No. 67-63-0	
EU. Regulation EU No. 649/2012 concerning the export and import of dangerous chemicals	:	; The substance/mixture does not fall under	this legislation.	
EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation	:	Point Nos.: , 3; Listed		
1907/2006/EC)		Point Nos.: , 40; Listed		
EU. Regulation No 1451/2007 [Biocides], Annex I, OJ (L 325)	:	EC Number: , 200-661-7; Listed		
EU. Directive 2012/18/EU (SEVESO III) Annex I	:	Lower-tier requirements: 5.000 tonnes; Part dangerous substances; P5c: Flammable liqu or 3 not covered by P5a and P5b, The inforr valid if the product is stored below the boilin pressure of 1013 hPa. Upper-tier requirements: 50.000 tonnes; Pau dangerous substances; P5c: Flammable liqu or 3 not covered by P5a and P5b, The inforr valid if the product is stored below the boilin pressure of 1013 hPa.	uids, Categories 2 mation given is g point and at a rt 1: Categories of uids, Categories 2 mation given is	
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AICS DSL EINECS ENCS (JP) IECSC ISHL (JP) JEX (JP) KECI (KR) NZIOC PICCS (PH)	Notification YES YES YES YES YES YES YES YES YES YES	Notification number 200-661-7 (2)-207 2-(8)-319 (2)-207 (2)-207 (2)-207 KE-29363 HSR001180				
15.2. Chemical safety assessment						
A Chemical Safety Assessmer	nt has been carried out for th	is substance.				
H225 Highly H319 Cause	H319Causes serious eye irritation.H336May cause drowsiness or dizziness.					
UVCB substance of unknown or variable composition, complex reaction products or biological materials very persistent and very	vPvB					
bioaccumulative						
BCF	bioconcentration factor					
BOD	biochemical oxygen demar					
CAS	Chemical Abstracts Service					
CLP CMR	Classification, Labelling and	• •				
CMR	carcinogenic, mutagenic or					
	chemical oxygen demand					
DNEL EINECS	derived no-effect level European Inventory of Exis	ting Commercial Chemical Substances				
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ELINCS	European List of Natified Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
PBT	persistent, bioaccumulative and toxic
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
PNEC	predicted no-effect concentration
STOT	specific target organ toxicity
SVHC	substance of very high concern
Further information	
Key literature references : and sources for data	Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
Methods used for : product classification	The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.
Hints for trainings :	The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.
Other information :	The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.
	The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.
Indicates updated section.	
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