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

TEROSON VR 320 8,5KG ML

SDS No. : 548541
V001.1
Revision: 20.12.2016
printing date: 20.10.2017
Replaces version from: 19.12.2016

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

1.1. Product identifier
TEROSON VR 320 8,5KG ML

Contains:
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
Skin cleaning product

1.3. Details of the supplier of the safety data sheet
Henkel AG & Co. KGaA
Henkelstr. 67
40589 Düsseldorf

Germany

Phone: +49 211 797 0
Fax-no.: +49 211 798 2009

ua-productsafety_za@henkel.com

1.4. Emergency telephone number
EMERGENCY NUMBER - AMBULANCE: 998

HAAD Poison and Drug Information Center UAE, TOLL FREE TEL. NUMBER 800-424

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):
Skin irritation — Category 2
H315 Causes skin irritation.
Serious eye damage — Category 1
H318 Causes serious eye damage.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:

Signal word: Danger

Hazard statement:	H315 Causes skin irritation. H318 Causes serious eye damage.
Precautionary statement: Prevention	P280 Wear protective gloves/eye protection.
Precautionary statement: Response	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor.

2.3. Other hazards

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General chemical description:

Skin cleaning product

Base substances of preparation:

water

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number	content	Classification
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	273-257-1	5- < 10 %	Skin Irrit. 2; Dermal H315 Eye Dam. 1 H318 STOT SE 3 H335 Aquatic Chronic 3 H412 Flam. Sol. 2 H228
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	270-115-0	1- < 5 %	Acute Tox. 4; Oral H302 Skin Irrit. 2 H315 Eye Dam. 1 H318 Aquatic Chronic 3 H412
Alcohols, C12-18 67762-25-8	267-006-5	0,25- < 1 %	Aquatic Acute 1 H400 Aquatic Chronic 2 H411 Eye Irrit. 2 H319
Dodecan-1-ol 112-53-8	203-982-0	0,25- < 1 %	Eye Irrit. 2 H319 Aquatic Acute 1 H400 Aquatic Chronic 2 H411

For full text of the H - statements and other abbreviations see section 16 "Other information".
Substances without classification may have community workplace exposure limits available.

Declaration of ingredients according to DPD (EC) No 1999/45:

Hazardous components CAS-No.	EC Number	content	Classification
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	273-257-1	5 - < 10 %	Xi - Irritant; R37/38, R41 F - Highly flammable; R11
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	270-115-0	1 - < 5 %	Xn - Harmful; R22 Xi - Irritant; R38, R41
Alcohols, C12-18 67762-25-8	267-006-5	0,25 - < 1 %	N - Dangerous for the environment; R50 Xi - Irritant; R36
Dodecan-1-ol 112-53-8	203-982-0	0,25 - < 1 %	Xi - Irritant; R36 N - Dangerous for the environment; R50

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.
Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Move to fresh air, consult doctor if complaint persists.

Skin contact:
IF ON SKIN: Wash with plenty of soap and water.
In case of adverse health effects seek medical advice.

Eye contact:
Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:
Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed
EYE: Irritation, conjunctivitis.

SKIN: Redness, inflammation.

4.3. Indication of any immediate medical attention and special treatment needed
See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:
High pressure waterjet

5.2. Special hazards arising from the substance or mixture
In case of fire toxic gases can be released.

5.3. Advice for firefighters
Wear self-contained breathing apparatus.
Wear protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear protective equipment.
Avoid contact with skin and eyes.
Keep unprotected persons away.
Danger of slipping on spilled product.

6.2. Environmental precautions
Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up
Remove with liquid-absorbing material (sand, peat, sawdust).
Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections
See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Hygiene measures:
Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.
Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Ensure good ventilation/extraction.

7.3. Specific end use(s)
Skin cleaning product

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Ver.Arab.Emir.

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Cellulose 9004-34-6 [CELLULOSE]		10	Time Weighted Average (TWA):		AD TLV
Cellulose 9004-34-6 [CELLULOSE, INHALABLE DUST]		20	Short Term Exposure Limit (STEL):		DB OEL
Cellulose 9004-34-6 [CELLULOSE, INHALABLE DUST]		10	Time Weighted Average (TWA):		DB OEL
Cellulose 9004-34-6 [CELLULOSE, RESPIRABLE DUST]		4	Time Weighted Average (TWA):		DB OEL
Cellulose 9004-34-6 [CELLULOSE]		10	Time Weighted Average (TWA):		GCC TLV
Cellulose 9004-34-6 [CELLULOSE]		10	Time Weighted Average (TWA):		UAE OEL

Occupational Exposure Limits

Valid for
Bharain

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Cellulose 9004-34-6 [CELLULOSE]		10	Time Weighted Average (TWA):		BH TLV
Cellulose 9004-34-6 [CELLULOSE]		10	Time Weighted Average (TWA):		GCC TLV

Occupational Exposure Limits

Valid for
Egypt

None

Occupational Exposure Limits

Valid for
Jordan

None

Occupational Exposure Limits

Valid for
Kuwait

None

Occupational Exposure Limits

Valid for
Israel

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Cellulose 9004-34-6 [CELLULOSE]		10	Time Weighted Average (TWA):		IL OEL

Occupational Exposure Limits

Valid for
Kenya

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Cellulose 9004-34-6 [CELLULOSE RESPIRABLE DUST]	5		Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Cellulose 9004-34-6 [CELLULOSE TOTAL INHALABLE DUST]		20	Short-term OEL-RL:		KE OEL-RL
Cellulose 9004-34-6 [CELLULOSE TOTAL INHALABLE DUST]		10	Time-weighted average (TWA) OEL-RL:		KE OEL-RL

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	aqua (freshwater)					0,098 mg/L	
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	aqua (marine water)					0,0098 mg/L	
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	aqua (intermittent releases)					0,15 mg/L	
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	sewage treatment plant (STP)					6,8 mg/L	
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	sediment (freshwater)				3,45 mg/kg		
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	sediment (marine water)				0,345 mg/kg		
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	soil				0,631 mg/kg		
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	aqua (freshwater)					0,268 mg/L	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	aqua (marine water)					0,0268 mg/L	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	aqua (intermittent releases)					0,0167 mg/L	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	sewage treatment plant (STP)					3,43 mg/L	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	sediment (freshwater)				8,1 mg/kg		
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	sediment (marine water)				6,8 mg/kg		
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	soil				35 mg/kg		
Dodecan-1-ol 112-53-8	aqua (freshwater)					0,0028 mg/L	
Dodecan-1-ol 112-53-8	aqua (marine water)					0,00028 mg/L	
Dodecan-1-ol 112-53-8	sewage treatment plant (STP)					0,0207 mg/L	
Dodecan-1-ol 112-53-8	sediment (freshwater)				1,1 mg/kg		
Dodecan-1-ol 112-53-8	sediment (marine water)				0,11 mg/kg		
Dodecan-1-ol 112-53-8	soil				0,888 mg/kg		

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	Workers	dermal	Long term exposure - systemic effects		4060 mg/kg bw/day	
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	Workers	inhalation	Long term exposure - systemic effects		285 mg/m3	
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	General population	dermal	Long term exposure - systemic effects		2440 mg/kg bw/day	
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	General population	inhalation	Long term exposure - systemic effects		85 mg/m3	
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	General population	oral	Long term exposure - systemic effects		24 mg/kg bw/day	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	Workers	inhalation	Long term exposure - systemic effects		6 mg/m3	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	Workers	inhalation	Long term exposure - local effects		6 mg/m3	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	Workers	dermal	Long term exposure - systemic effects		85 mg/kg bw/day	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	General population	inhalation	Long term exposure - systemic effects		1,5 mg/m3	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	General population	inhalation	Long term exposure - local effects		1,5 mg/m3	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	General population	dermal	Long term exposure - systemic effects		42,5 mg/kg bw/day	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	General population	oral	Long term exposure - systemic effects		0,425 mg/kg bw/day	
Dodecan-1-ol 112-53-8	Workers	dermal	Acute/short term exposure - systemic effects		125 mg/kg bw/day	
Dodecan-1-ol 112-53-8	Workers	Inhalation	Acute/short term exposure - systemic effects		220 mg/m3	
Dodecan-1-ol 112-53-8	General population	dermal	Acute/short term exposure - systemic effects		75 mg/kg bw/day	
Dodecan-1-ol 112-53-8	General population	Inhalation	Acute/short term exposure - systemic effects		65 mg/m3	
Dodecan-1-ol 112-53-8	General population	oral	Acute/short term exposure - systemic effects		75 mg/kg bw/day	
Dodecan-1-ol 112-53-8	Workers	dermal	Long term exposure - systemic effects		125 mg/kg bw/day	
Dodecan-1-ol 112-53-8	Workers	Inhalation	Long term exposure - systemic effects		220 mg/m3	
Dodecan-1-ol 112-53-8	General population	dermal	Long term exposure - systemic effects		75 mg/kg bw/day	
Dodecan-1-ol 112-53-8	General population	Inhalation	Long term exposure - systemic effects		65 mg/m3	
Dodecan-1-ol 112-53-8	General population	oral	Long term exposure - systemic effects		75 mg/kg bw/day	

Biological Exposure Indices:
None

8.2. Exposure controls:

Engineering controls:
Ensure good ventilation/extraction.

Respiratory protection:
In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).
This recommendation should be matched to local conditions.

Hand protection:
Chemical-resistant protective gloves (EN 374).
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:
Goggles which can be tightly sealed.
Protective eye equipment should conform to EN166.

Skin protection:
Wear protective equipment.
Protective clothing that covers arms and legs.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:
Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway).
The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.
Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	paste pasty light beige
Odor	perfumed
Odour threshold	No data available / Not applicable
pH (20 °C (68 °F))	6,3
Initial boiling point	No data available / Not applicable
Flash point	No data available / Not applicable
Decomposition temperature	No data available / Not applicable
Vapour pressure	No data available / Not applicable
Density (20 °C (68 °F))	0,82 g/cm3
Bulk density	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable

Explosive properties	No data available / Not applicable
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Miscible
Solidification temperature	No data available / Not applicable
Melting point	No data available / Not applicable
Flammability	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Explosive limits	No data available / Not applicable
Partition coefficient: n-octanol/water	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Vapor density	No data available / Not applicable
Solid content	33 %
Oxidising properties	No data available / Not applicable

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity
None if used for intended purpose.

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
See section reactivity

10.4. Conditions to avoid
None if used for intended purpose.

10.5. Incompatible materials
None if used properly.

10.6. Hazardous decomposition products
No decomposition if used according to specifications.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:
The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Skin irritation:
Causes skin irritation.

Eye irritation:
Causes serious eye damage.

Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	LD50	4.010 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	LD50	1.080 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)
Alcohols, C12-18 67762-25-8	LD50	> 5.000 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)
Dodecan-1-ol 112-53-8	LD50	> 5.000 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	LD50	> 2.000 mg/kg	dermal		rabbit	not specified
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	Category 2 (irritant)	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Alcohols, C12-18 67762-25-8	slightly irritating		human	Burckhardt Test
Alcohols, C12-18 67762-25-8	irritating	4 h	rabbit	EU Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion)
Dodecan-1-ol 112-53-8	not irritating	4 h	human	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	highly irritating	24 h	rabbit	Draize Test
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	Category 1 (irreversible effects on the eye)	30 s	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Alcohols, C12-18 67762-25-8	slightly irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Dodecan-1-ol 112-53-8	irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		EU Method B.13/14 (Mutagenicity)
	negative	in vitro mammalian chromosome aberration test	without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
	negative	oral: feed		mouse	not specified
Alcohols, C12-18 67762-25-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Henkel Method
Dodecan-1-ol 112-53-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Henkel Method

Reproductive toxicity:

Hazardous substances CAS-No.	Result / Classification	Species	Exposure time	Species	Method
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	NOAEL P = 350 mg/kg NOAEL F1 = 350 mg/kg NOAEL F2 = 350 mg/kg	three-generation study oral: feed	2 y	rat	not specified

Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	NOAEL=125 mg/kg	oral: gavage	28 ddaily	rat	not specified
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	LOAEL=250 mg/kg	oral: gavage	28 ddaily	rat	not specified
Dodecan-1-ol 112-53-8	NOAEL=> 100 mg/kg	oral: feed	37 dayspermanent by diet	rat	not specified

SECTION 12: Ecological information

General ecological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.
Do not empty into drains, soil or bodies of water.

12.1. Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	LC50	> 10 - 100 mg/l	Fish	96 h	Cyprinus carpio	OECD Guideline 203 (Fish, Acute Toxicity Test)
	NOEC	> 0,1 - 1 mg/l	Fish		Pimephales promelas	OECD Guideline 210 (fish early lite stage toxicity test)
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	EC50	> 10 - 100 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	EC50	> 10 - 100 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	NOEC	> 0,1 - 1 mg/l	chronic Daphnia		Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	NOEC	> 0,43 - 0,89 mg/l	Fish	28 d	Salmo gairdneri (new name: Oncorhynchus mykiss)	OECD Guideline 210 (fish early lite stage toxicity test)
	LC50	1,67 mg/l	Fish	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
	NOEC	1 mg/l	Fish	28 d	Lepomis macrochirus	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	EC50	2,9 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	EC50	127,9 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	not specified
	NOEC	2,4 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	not specified
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	EC0	26 mg/l	Bacteria	16 h		not specified
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	NOEC	1,18 mg/l	chronic Daphnia	21 day	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Alcohols, C12-18 67762-25-8	LC50	1,01 mg/l	Fish	96 h	Pimephales promelas	EPA OTS 797.1400 (Fish Acute Toxicity Test)
Alcohols, C12-18 67762-25-8	EC50	0,765 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Alcohols, C12-18 67762-25-8	EC50	0,66 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Alcohols, C12-18 67762-25-8	EC0	10.000 mg/l	Bacteria	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
Alcohols, C12-18 67762-25-8	NOEC	0,014 mg/l	chronic Daphnia	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Dodecan-1-ol 112-53-8	LC50	1,01 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
	NOEC	<= 1 mg/l	Fish		Brachydanio rerio (new name: Danio rerio)	OECD Guideline 210 (fish early lite stage toxicity test)
Dodecan-1-ol 112-53-8	EC50	0,765 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Dodecan-1-ol 112-53-8	EC10	0,66 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
	EC50	0,27 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Dodecan-1-ol 112-53-8	EC0	10.000 mg/l	Bacteria	30 min		not specified
Dodecan-1-ol 112-53-8	NOEC	0,014 mg/l	chronic Daphnia	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

12.2. Persistence and degradability

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	readily biodegradable	aerobic	> 60 %	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	readily biodegradable	aerobic	85 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Alcohols, C12-18 67762-25-8	readily biodegradable	aerobic	79 %	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
Dodecan-1-ol 112-53-8	readily biodegradable	aerobic	79 %	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	-2,1				20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	3,32					not specified
Dodecan-1-ol 112-53-8		29		Oncorhynchus mykiss		OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Dodecan-1-ol 112-53-8	5,13					not specified

12.5. Results of PBT and vPvB assessment

Hazardous components CAS-No.	PBT/vPvB
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Alcohols, C12-18 67762-25-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Dodecan-1-ol 112-53-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:
In consultation with the responsible local authority, must be subjected to special treatment.

Waste code
The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.
08 04 09 Waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14: Transport information

14.1. UN number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

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

VOC content (VOCV 814.018 VOC regulation CH)	0 %

15.2. Chemical safety assessment
A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text
of all abbreviations indicated by codes in this safety data sheet are as follows:

R11 Highly flammable.
R22 Harmful if swallowed.
R36 Irritating to eyes.
R37/38 Irritating to respiratory system and skin.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R50 Very toxic to aquatic organisms.
H228 Flammable solid.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.