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

SDS No. : 548541
V001.0

TEROSON VR 320 PA8,5KG EAST

Revision: 21.12.2023
printing date: 15.01.2024
Replaces version from: -

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

1.1. Product identifier
TEROSON VR 320 PA8,5KG EAST

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

1.3. Details of the supplier of the safety data sheet
Henkel Ltd
Adhesives
Wood Lane End
HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

SDSinfo.Adhesive@henkel.com
For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

1.4. Emergency telephone number
24 Hours Emergency Tel: +44 (0)1442 278497

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:

Contains Sulfuric acid, mono-C12-18-alkyl esters, sodium salts

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

Signal word:	Danger
Hazard statement:	H315 Causes skin irritation. H318 Causes serious eye damage.
Precautionary statement: Prevention	P264 Wash skin thoroughly after handling. P280 Wear protective gloves.
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. P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

Following substances are present in a concentration ≥ the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration ≥ the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1 273-257-1 01-2119490225-39	5- < 10 %	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412		
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 270-115-0 01-2119489428-22	1- < 5 %	Acute Tox. 4, Oral, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412		
Dodecan-1-ol 112-53-8 203-982-0 01-2119485976-15	0,1- < 1 %	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M acute = 1 ===== inhalation:ATE = > 17,75 mg/l;dust/mist	
Alcohols, C12-18 67762-25-8 267-006-5 01-2119485905-24 01-2119485907-20 01-2119485910-33 01-2119485976-15	0,1- < 1 %	Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Eye Irrit. 2, H319	M acute = 1	

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.
For full text of the H - statements and other abbreviations see section 16 "Other information".

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.
Take off contaminated clothing and wash before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.

7.3. Specific end use(s)

Handcleaner

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Great Britain

None

Occupational Exposure Limits

Valid for
Ireland

None

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)		0,001 mg/l				
Dodecan-1-ol 112-53-8	sediment (freshwater)				0,666 mg/kg		
Dodecan-1-ol 112-53-8	sediment (marine water)				0,067 mg/kg		
Dodecan-1-ol 112-53-8	Soil				0,132 mg/kg		
Dodecan-1-ol 112-53-8	aqua (marine water)		0 mg/l				
Dodecan-1-ol 112-53-8	Sewage treatment plant						no hazard identified
Dodecan-1-ol 112-53-8	oral						no potential for bioaccumulation

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	
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	
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	
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	dermal	Long term exposure - systemic effects		85 mg/kg	
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	dermal	Long term exposure - systemic effects		42,5 mg/kg	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	General population	oral	Long term exposure - systemic effects		0,425 mg/kg	
Dodecan-1-ol 112-53-8	Workers	inhalation	Long term exposure - systemic effects		313 mg/m3	no hazard identified
Dodecan-1-ol 112-53-8	Workers	inhalation	Long term exposure - local effects		155 mg/m3	no hazard identified
Dodecan-1-ol 112-53-8	Workers	dermal	Long term exposure - systemic effects		89 mg/kg	no hazard identified
Dodecan-1-ol 112-53-8	General population	inhalation	Long term exposure - systemic effects		77 mg/m3	no hazard identified
Dodecan-1-ol 112-53-8	General population	dermal	Long term exposure - systemic effects		44,5 mg/kg	no hazard identified
Dodecan-1-ol 112-53-8	General population	oral	Long term exposure - systemic effects		44,5 mg/kg	no hazard identified

Biological Exposure Indices:
None

8.2. Exposure controls:

Engineering controls:
Ensure good ventilation/extraction.

Respiratory protection:

Ensure good ventilation/suction at the workplace.

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): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 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:
Protective eye equipment should conform to EN166.
Goggles which can be tightly sealed.
Protective eye equipment should conform to EN166.

Skin protection:
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.
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:
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.
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), or equivalent.
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

Delivery form	paste
Colour	light beige
Odor	perfumed
Physical state	liquid
Melting point	Not applicable, Product is a liquid
Initial boiling point	Currently under determination
Flammability	Currently under determination
Explosive limits	Currently under determination
Flash point	Currently under determination
Auto-ignition temperature	Currently under determination
Decomposition temperature	Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use
pH (20 °C (68 °F); Conc.: 100 % product)	6,3 pH-value, universal method
Viscosity (kinematic)	Currently under determination
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Miscible
Partition coefficient: n-octanol/water	Not applicable Mixture
Vapour pressure	Currently under determination
Density (20 °C (68 °F))	0,82 g/cm3 Dichte Pyknometer; HT-Methode; Henkel Iberica NS-06
Relative vapour density:	Currently under determination
Particle characteristics	Not applicable Product is a liquid

9.2. Other information

Other information not applicable for this product

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

General toxicological information:
An allergic reaction cannot be excluded after repeated skin contact.

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

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	LD50	4.010 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	LD50	1.080 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Dodecan-1-ol 112-53-8	LD50	> 2.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Alcohols, C12-18 67762-25-8	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Dodecan-1-ol 112-53-8	LD50	> 8.000 mg/kg	rabbit	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Dodecan-1-ol 112-53-8	Acute toxicity estimate (ATE)	> 17,75 mg/l	dust/mist	4 h		Expert judgement

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances 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	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Dodecan-1-ol 112-53-8	not irritating	4 h	human	equivalent or similar to 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)

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
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)
Dodecan-1-ol 112-53-8	irritating	24 h	rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Alcohols, C12-18 67762-25-8	irritating		rabbit	equivalent or similar to 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)

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances **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)
Dodecan-1-ol 112-53-8	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances 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)
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	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	bacterial reverse mutation assay (e.g Ames test)	with and without		EU Method B.13/14 (Mutagenicity)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	negative	in vitro mammalian chromosome aberration test	without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Dodecan-1-ol 112-53-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Dodecan-1-ol 112-53-8	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Dodecan-1-ol 112-53-8	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Dodecan-1-ol 112-53-8	negative	in vitro mammalian cell micronucleus test	with and without		OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
Alcohols, C12-18 67762-25-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Henkel Method
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	negative	oral: feed		rat	equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Dodecan-1-ol 112-53-8	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	not carcinogenic	oral: feed	2 y daily	rat	male/female	equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	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	rat	not specified
Dodecan-1-ol 112-53-8	NOAEL P > 2.000 mg/kg NOAEL F1 > 2.000 mg/kg	screening	oral: feed	rat	equivalent or similar to OECD Guideline 422 (Combined Repeated Dose Toxicity Study)

STOT-single exposure:

No data available.

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	NOAEL 488 mg/kg	oral: feed	13 w daily	rat	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	NOAEL 400 mg/kg	dermal	twice/week	mouse	equivalent or similar to OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	NOAEL 125 mg/kg	oral: gavage	28 d daily	rat	not specified
Dodecan-1-ol 112-53-8	NOAEL > 1.000 mg/kg	oral: gavage	28d daily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
Dodecan-1-ol 112-53-8	NOAEL 3.548 mg/kg	oral: feed	90d daily	rat	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Dodecan-1-ol 112-53-8	NOAEL 1.000 mg/kg	oral: gavage	26 w daily	rat	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:
Do not empty into drains, soil or bodies of water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	LC50	1,3 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	NOEC	0,11 mg/l	34 d	Pimephales promelas	OECD Guideline 210 (fish early lite stage toxicity test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	NOEC	> 0,43 - 0,89 mg/l	28 d	Salmo gairdneri (new name: Oncorhynchus mykiss)	OECD Guideline 210 (fish early lite stage toxicity test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	LC50	1,67 mg/l	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Dodecan-1-ol 112-53-8	LC50	1,01 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Dodecan-1-ol 112-53-8	NOEC	<= 1 mg/l		Brachydanio rerio (new name: Danio rerio)	OECD Guideline 210 (fish early lite stage toxicity test)
Alcohols, C12-18 67762-25-8	LC50	1,01 mg/l	96 h	Pimephales promelas	EPA OTS 797.1400 (Fish Acute Toxicity Test)

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	EC50	2,8 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	EC50	2,9 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Dodecan-1-ol 112-53-8	EC50	0,765 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Alcohols, C12-18 67762-25-8	EC50	0,765 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	NOEC	0,14 mg/l	21 d	Daphnia magna	OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	NOEC	1,18 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

68411-30-3					
Dodecan-1-ol 112-53-8	NOEC	0,014 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Alcohols, C12-18 67762-25-8	NOEC	0,014 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances **CAS-No.**	**Value type**	**Value**	**Exposure time**	**Species**	**Method**
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	EC50	20 mg/l	72 h	Desmodesmus subspicatus	EU Method C.3 (Algal Inhibition test)
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	EC10	7,6 mg/l	72 h	Desmodesmus subspicatus	EU Method C.3 (Algal Inhibition test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	EC50	127,9 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	NOEC	2,4 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Dodecan-1-ol 112-53-8	EC10	0,27 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Dodecan-1-ol 112-53-8	EC50	0,66 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Alcohols, C12-18 67762-25-8	EC50	0,66 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances **CAS-No.**	**Value type**	**Value**	**Exposure time**	**Species**	**Method**
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	EC50	680 mg/l	3 h	activated sludge of a predominantly domestic sewage	EU Method C.11 (Biodegradation: Activated Sludge Respiration Inhibition Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	EC0	26 mg/l	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
Dodecan-1-ol 112-53-8	EC0	10.000 mg/l	30 min		not specified
Alcohols, C12-18 67762-25-8	EC0	10.000 mg/l	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)

12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	readily biodegradable	aerobic	93 %	28 d	EU Method C.4-C (Determination of the "Ready" BiodegradabilityCarbon Dioxide Evolution Test)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	readily biodegradable	aerobic	85 %	29 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Dodecan-1-ol 112-53-8	readily biodegradable	aerobic	79 %	28 d	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
Alcohols, C12-18 67762-25-8	readily biodegradable	aerobic	79 %	28 d	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)

12.3. Bioaccumulative potential

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
Dodecan-1-ol 112-53-8	29			Oncorhynchus mykiss	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)

12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1	-2,1	20 °C	QSAR (Quantitative Structure Activity Relationship)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	3,32		not specified
Dodecan-1-ol 112-53-8	5,13		not specified

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances 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.
Dodecan-1-ol 112-53-8	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.

12.6. Endocrine disrupting properties

not applicable

12.7. 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
080409

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.

SECTION 14: Transport information

14.1. UN number or ID 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. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable
VOC content (2010/75/EU)	0,0 %

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:

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye 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.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

This Safety Data Sheet has been produced for sales from Henkel to parties purchasing from Henkel, is based on Regulation (EC) No 1907/2006 and provides information in accordance with applicable regulations of the European Union only. In that respect, no statement, warranty or representation of any kind is given as to compliance with any statutory laws or regulations of any other jurisdiction or territory other than the European Union. When exporting to territories other than the European Union, please consult with the respective Safety Data Sheet of the concerned territory to ensure compliance or liaise with Henkel´s Product Safety and Regulatory Affairs Department (SDSinfo.Adhesive@henkel.com) prior to export to other territories than the European Union.

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.

Dear Customer,
Henkel is committed to creating a sustainable future by promoting opportunities along the entire value chain. If you would like to contribute by switching from a paper to the electronic version of SDS, please contact the local Customer Service representative. We recommend to use a non-personal email address (e.g. SDS@your_company.com).

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.