



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

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BONDERITE C-MC CS ACIDIC TRANSPORTATION CLEANER  
known as P3-lavoxyd CS JC20L-23KG

SDS No. : 519080  
V005.0

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

#### 1.1. Product identifier

BONDERITE C-MC CS ACIDIC TRANSPORTATION CLEANER known as P3-lavoxyd CS JC20L-23KG

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

Intended use:

Cleaners for Industrial Application

#### 1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA  
Henkelstr. 67  
40589 Düsseldorf

Germany

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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](http://www.henkel-adhesives.com).

#### 1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (CLP):

Corrosive to metals

Category 1

H290 May be corrosive to metals.

**|| Skin corrosion**

**Category 1C**

**|| H314 Causes severe skin burns and eye damage.**

Serious eye damage

Category 1

H318 Causes serious eye damage.

#### 2.2. Label elements

##### Label elements (CLP):

##### Hazard pictogram:



Contains

Sulfuric acid

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

**Signal word:** Danger

**Hazard statement:** H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

**Precautionary statement:** P260 Do not breathe mist/spray.  
**Prevention** P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement:** P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.  
**Response** Rinse skin with water [or shower].  
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

None if used properly.

**Following substances are present in a concentration  $\geq$  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  $\geq$  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
Citric acid 77-92-9 201-069-1 01-2119457026-42	10- < 20 %	Eye Irrit. 2, H319 STOT SE 3, H335		
Sulfuric acid 7664-93-9 231-639-5 01-2119458838-20	10- < 15 %	Skin Corr. 1A, H314 Met. Corr. 1, H290	Met. Corr. 1; H290; C >= 1 % Skin Corr. 1A; H314; C >= 15 % Skin Irrit. 2; H315; C 5 - < 15 % Eye Irrit. 2; H319; C 5 - < 15 % ===== dermal:ATE = 2.140 mg/kg	EU OEL EUEXPL1D
(2-Methoxymethylethoxy)propanol 34590-94-8 252-104-2 01-2119450011-60	5- < 10 %			EU OEL
Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	1- < 3 %	Acute Tox. 4, Oral, H302 Eye Dam. 1, H318		
Benzenesulfonic acid, 4-C10-13- sec-alkyl derivs. 85536-14-7 287-494-3 01-2119490234-40	1- < 3 %	Eye Dam. 1, H318 Skin Corr. 1C, H314 Acute Tox. 4, Oral, H302 Aquatic Chronic 3, H412		

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".  
Declaration of ingredients according to Detergent Regulation 648/2004/EC

< 5 %	anionic surfactants non-ionic surfactants
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**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

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

**Skin contact:**  
Immediately rinse with copious amounts of running water (for 10 minutes). Remove contaminated clothes. Put on a bandage with sterile gauze, seek medical attention in hospital.

**Eye contact:**  
Immediately flush eyes with soft jet of water or eye rinse solution for at least 15 minutes. Hold eyelid wide-open. Seek a doctor/hospital, eye flushing should continue during transportation to a doctor.

**Ingestion:**  
Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.  
Immediate medical treatment necessary.

**4.2. Most important symptoms and effects, both acute and delayed**  
Causes burns.

#### 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:

None known

#### 5.2. Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in fires.

#### 5.3. Advice for firefighters

Wear protective equipment.

Wear self-contained breathing apparatus.

##### Additional information:

Cool endangered containers with water spray jet.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

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

Dispose of contaminated material as waste according to Section 13.

Neutralize with acid-binding material (e.g. powdered limestone).

Take up with liquid-absorbing material (sand).

#### 6.4. Reference to other sections

See advice in section 8

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Avoid skin and eye contact.

Ensure that workrooms are adequately ventilated.

When diluting, always stir slowly the product into standing water.

See advice in section 8

##### Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Wash contaminated clothing before reuse.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

**7.2. Conditions for safe storage, including any incompatibilities**

Store only in the original container.  
Do not use packing made of metal.  
Keep container in a well ventilated place.  
Keep container tightly sealed.  
Store in a cool, frost-free place.  
Must be stored in a room with spill collection facilities.  
Keep only in original container.  
Do not store together with strong bases or very alkaline substances.

**7.3. Specific end use(s)**

Cleaners for Industrial Application

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational Exposure Limits**

Valid for  
Germany

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Citric acid 77-92-9			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
Citric acid 77-92-9		2	Exposure limit(s):	2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Sulphuric acid 7664-93-9 [SULPHURIC ACID (MIST)]		0,05	Time Weighted Average (TWA):	Indicative	ECLTV
Sulphuric acid 7664-93-9			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
Sulphuric acid 7664-93-9		0,1	Exposure limit(s):	1 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
(2-Methoxymethylethoxy)propanol 34590-94-8 [(2-METHOXYMETHYLETHOXY)-PROPANOL]	50	308	Time Weighted Average (TWA):	Indicative	ECLTV
(2-Methoxymethylethoxy)propanol 34590-94-8			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
(2-Methoxymethylethoxy)propanol 34590-94-8	50	310	Exposure limit(s):	1	TRGS 900

**Predicted No-Effect Concentration (PNEC):**

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Sulfuric acid 7664-93-9	Predator						no potential for bioaccumulation
(2-Methoxymethylethoxy)propanol 34590-94-8	aqua (freshwater)		19 mg/l				
(2-Methoxymethylethoxy)propanol 34590-94-8	aqua (marine water)		1,9 mg/l				
(2-Methoxymethylethoxy)propanol 34590-94-8	sewage treatment plant (STP)		4168 mg/l				
(2-Methoxymethylethoxy)propanol 34590-94-8	sediment (freshwater)				70,2 mg/kg		
(2-Methoxymethylethoxy)propanol 34590-94-8	sediment (marine water)				7,02 mg/kg		
(2-Methoxymethylethoxy)propanol 34590-94-8	Soil				2,74 mg/kg		
(2-Methoxymethylethoxy)propanol 34590-94-8	aqua (intermittent releases)		190 mg/l				
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	aqua (freshwater)		0,268 mg/l				
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	aqua (marine water)		0,027 mg/l				
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	aqua (intermittent releases)		0,017 mg/l				
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	sewage treatment plant (STP)		3,43 mg/l				
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	sediment (freshwater)				8,1 mg/kg		
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	sediment (marine water)				6,8 mg/kg		
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	Air						no hazard identified
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	Soil				35 mg/kg		
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	Predator						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 7664-93-9	Workers	inhalation	Acute/short term exposure - local effects		0,1 mg/m <sup>3</sup>	no potential for bioaccumulation
Sulfuric acid 7664-93-9	Workers	inhalation	Long term exposure - local effects		0,05 mg/m <sup>3</sup>	no potential for bioaccumulation
(2-Methoxymethylethoxy)propanol 34590-94-8	Workers	inhalation	Long term exposure - systemic effects		308 mg/m <sup>3</sup>	
(2-Methoxymethylethoxy)propanol 34590-94-8	Workers	dermal	Long term exposure - systemic effects		283 mg/kg	
(2-Methoxymethylethoxy)propanol 34590-94-8	General population	oral	Long term exposure - systemic effects		36 mg/kg	
(2-Methoxymethylethoxy)propanol 34590-94-8	General population	inhalation	Long term exposure - systemic effects		37,2 mg/m <sup>3</sup>	
(2-Methoxymethylethoxy)propanol 34590-94-8	General population	dermal	Long term exposure - systemic effects		121 mg/kg	
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	Workers	inhalation	Long term exposure - systemic effects		7,6 mg/m <sup>3</sup>	no hazard identified
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	Workers	dermal	Long term exposure - systemic effects		119 mg/kg	no hazard identified
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	General population	inhalation	Long term exposure - systemic effects		1,3 mg/m <sup>3</sup>	no hazard identified
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	General population	dermal	Long term exposure - systemic effects		42,5 mg/kg	no hazard identified
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	General population	oral	Long term exposure - systemic effects		0,425 mg/kg	no hazard identified

**Biological Exposure Indices:**

None

**8.2. Exposure controls:**

## Engineering controls:

Ensure good ventilation/suction at the workplace.

## 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): 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.

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

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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Delivery form	liquid
Colour	yellow
Odor	odourless
Physical state	liquid
Melting point	Not applicable, Product is a liquid
Solidification temperature	< 0 °C (< 32 °F)
Initial boiling point	> 100 °C (> 212 °F)
Flammability	The product is not flammable.
Explosive limits	Not applicable, The product is not flammable.
Flash point	> 100 °C (> 212 °F)
Auto-ignition temperature	Not applicable, Aqueous solution
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.: 1,0 % product; Solvent: Demineralised water)	1,6
pH (; Conc.: 100 % product)	1,6 no method / method unknown
Viscosity (kinematic) (40 °C (104 °F); )	> 20,5 mm <sup>2</sup> /s
Viscosity, dynamic (; 20 °C (68 °F))	2,2 mPa.s no method / method unknown
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	fully miscible
Partition coefficient: n-octanol/water	Not applicable Mixture
Vapour pressure (20 °C (68 °F))	23,4 mbar
Density (20 °C (68 °F))	1,16 g/cm <sup>3</sup> density, hydrometer
Relative vapour density: (20 °C)	< 1
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

Reaction with strong bases

### 10.2. Chemical stability

Stable under recommended storage conditions.



**10.3. Possibility of hazardous reactions**

See section reactivity

**10.4. Conditions to avoid**

No decomposition if used according to specifications.

**10.5. Incompatible materials**

See section reactivity.

**10.6. Hazardous decomposition products**

None if used for intended purpose.

In case of fire toxic gases can be released.

**SECTION 11: Toxicological information****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
Citric acid 77-92-9	LD50	5.400 mg/kg	mouse	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Sulfuric acid 7664-93-9	LD50	2.140 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
(2-Methoxymethylethoxy)propanol 34590-94-8	LD50	8.740 mg/kg	rat	not specified
Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	LD50	> 300 - 2.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Benzenesulfonic acid, 4- C10-13-sec-alkyl derivs. 85536-14-7	LD50	1.470 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
Citric acid 77-92-9	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Sulfuric acid 7664-93-9	Acute toxicity estimate (ATE)	2.140 mg/kg		Expert judgement
(2-Methoxymethylethoxy)propanol 34590-94-8	LD50	9.510 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Benzenesulfonic acid, 4- C10-13-sec-alkyl derivs. 85536-14-7	LD50	> 2.000 mg/kg	rat	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
(2-Methoxymethylethoxy)pr opanol 34590-94-8	LC50	55 - 60 mg/l		4 h	rat	not specified

**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
Citric acid 77-92-9	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
(2-Methoxymethylethoxy)pr opanol 34590-94-8	not irritating	2 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
(2-Methoxymethylethoxy)pr opanol 34590-94-8	not irritating		human	not specified
Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Benzenesulfonic acid, 4- C10-13-sec-alkyl derivs. 85536-14-7	Category 1C (corrosive)	4 h	rabbit	OECD Guideline 404 (Acute 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
Citric acid 77-92-9	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
(2-Methoxymethylethoxy)pr opanol 34590-94-8	not irritating		human	not specified
(2-Methoxymethylethoxy)pr opanol 34590-94-8	not irritating		rabbit	Draize Test
Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Benzenesulfonic acid, 4- C10-13-sec-alkyl derivs. 85536-14-7	Category 1 (irreversible effects on the eye)		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.

<b>Hazardous substances CAS-No.</b>	<b>Result</b>	<b>Test type</b>	<b>Species</b>	<b>Method</b>
(2-Methoxymethylethoxy)propylparabenol 34590-94-8	not sensitising	Patch-Test	human	human repeat insult patch test
Benzenesulfonic acid, 4-(10-13-sec-alkyl) deriv. 85536-14-7	not sensitising	Guinea pig maximisation test	guinea pig	not specified

**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
Citric acid 77-92-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Citric acid 77-92-9	positive	in vitro mammalian cell micronucleus test	without		equivalent or similar to OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
Sulfuric acid 7664-93-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
(2- Methoxymethylethoxy)pr opanol 34590-94-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test
(2- Methoxymethylethoxy)pr opanol 34590-94-8	negative	yeast cytogenetic assay	with and without		OECD Guideline 481 (Genetic Toxicology: Saccharomyces cerevisiae, Mitotic Recombination Assay)
(2- Methoxymethylethoxy)pr opanol 34590-94-8	negative	in vitro mammalian chromosome aberration test	with and without		JAPAN: Guidelines for Screening Mutagenicity Testing Of Chemicals
(2- Methoxymethylethoxy)pr opanol 34590-94-8	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	not applicable		OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
(2- Methoxymethylethoxy)pr opanol 34590-94-8	negative	mammalian cell gene mutation assay	without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
(2- Methoxymethylethoxy)pr opanol 34590-94-8	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Benzenesulfonic acid, 4- C10-13-sec-alkyl derivs. 85536-14-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		EU Method B.13/14 (Mutagenicity)
Benzenesulfonic acid, 4- C10-13-sec-alkyl derivs. 85536-14-7	negative without metabolic activation	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Benzenesulfonic acid, 4- C10-13-sec-alkyl derivs. 85536-14-7	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Citric acid 77-92-9	negative	oral: gavage		rat	equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Citric acid 77-92-9	negative	oral: gavage		rat	EU Method B.22 (Rodent Dominant Lethal Test)
Benzenesulfonic acid, 4- C10-13-sec-alkyl derivs. 85536-14-7	negative	oral: gavage		mouse	equivalent or similar to 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
(2-Methoxymethylethoxy)propanol 34590-94-8	not carcinogenic	inhalation: vapour	2 years 6 h/day; 5 days/week	rat	male/female	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
(2-Methoxymethylethoxy)propanol 34590-94-8	NOAEL P 300 ppm NOAEL F1 1000 ppm NOAEL F2 1000 ppm	two- generation study	inhalation: vapour	rat	OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)
Benzenesulfonic acid, 4- C10-13-sec-alkyl derivs. 85536-14-7	NOAEL P 350 mg/kg NOAEL F1 350 mg/kg NOAEL F2 350 mg/kg	three- generation study	oral: feed	rat	not specified

**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
Citric acid 77-92-9	NOAEL 4.000 mg/kg	oral: gavage	10 d daily	rat	not specified
Sulfuric acid 7664-93-9	LOAEL 0.3 mg/m <sup>3</sup>	inhalation: aerosol	28 d 6 h/d, 5 d/w	rat	OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
(2- Methoxymethylethoxy)pr opanol 34590-94-8	NOAEL > 50 mg/l	inhalation	2 weeks (9 exposures) 6 hours/day; 5 days/week	rabbit	not specified
(2- Methoxymethylethoxy)pr opanol 34590-94-8	NOAEL 1.000 mg/kg	oral: gavage	4 weeks daily	rat	not specified
(2- Methoxymethylethoxy)pr opanol 34590-94-8	NOAEL 200 ppm	inhalation: vapour	13 weeks 6 hours/day; 5 days/week	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
(2- Methoxymethylethoxy)pr opanol 34590-94-8	NOAEL 2.850 mg/kg	dermal	90 d 5 days/week	rabbit	OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
(2- Methoxymethylethoxy)pr opanol 34590-94-8	NOAEL > 1.000 mg/kg	dermal	4 weeks 4 hours/day; 5 days/week	rat	OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
Benzenesulfonic acid, 4- C10-13-sec-alkyl derivs. 85536-14-7	NOAEL 85 mg/kg	oral: drinking water	9 m daily	rat	not specified
Benzenesulfonic acid, 4- C10-13-sec-alkyl derivs. 85536-14-7	NOAEL 5 %	dermal	26 w daily	rat	not specified

**Aspiration hazard:**

The mixture is classified based on Viscosity data.

Hazardous substances CAS-No.	Viscosity (kinematic) Value	Temperature	Method	Remarks
Benzenesulfonic acid, 4- C10-13-sec-alkyl derivs. 85536-14-7	397 mm <sup>2</sup> /s	40 °C	not specified	

**11.2 Information on other hazards**

not applicable

**SECTION 12: Ecological information****General ecological information:**

Do not empty into drains / surface water / ground water.

Locally harmful for aquatic and landliving organisms because of low pH and corrosive properties.

The biodegradability of the surfactants contained in the product is in accordance with the requirements of the EU Detergent Regulation (EC/648/2004).

The surfactants contained in the products are primary biodegradable to at least 90% on average.

**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
Citric acid 77-92-9	LC50	> 250 mg/l	48 h	Leuciscus idus	DIN 38412-15
Sulfuric acid 7664-93-9	LC50	> 16 - 28 mg/l	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
(2-Methoxymethylethoxy)propanol 34590-94-8	LC50	> 1.000 mg/l	96 h	Poecilia reticulata	OECD Guideline 203 (Fish, Acute Toxicity Test)
Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	LC50	> 10 - 100 mg/l	96 h	Leuciscus idus	DIN 38412-15
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	LC50	1,67 mg/l	96 h	Lepomis macrochirus	EPA OPPTS 850.1075 (Freshwater and Saltwater Fish Acute Toxicity Test)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	NOEC	1 mg/l	28 d	Lepomis macrochirus	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	NOEC	0,23 mg/l	72 d	Oncorhynchus mykiss	OECD Guideline 210 (fish early lite stage 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
Citric acid 77-92-9	EC50	275 mg/l	24 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)
Sulfuric acid 7664-93-9	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
(2-Methoxymethylethoxy)propanol 34590-94-8	EC50	1.919 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	EC50	> 10 - 100 mg/l	48 h	Daphnia magna	DIN 38412, part 11
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	EC50	2,9 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
Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	NOEC	> 1 mg/l	21 d	Daphnia magna	OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	NOEC	1,18 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
Citric acid 77-92-9	EC50	> 640 mg/l	7 d	Scenedesmus quadricauda	OECD Guideline 201 (Alga, Growth Inhibition Test)
Citric acid 77-92-9	NOEC	425 mg/l	8 d	Scenedesmus quadricauda	other guideline:
Sulfuric acid 7664-93-9	EC50	> 100 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Sulfuric acid 7664-93-9	NOEC	100 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
(2-Methoxymethylethoxy)propanol 34590-94-8	EC50	> 969 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
(2-Methoxymethylethoxy)propanol 34590-94-8	NOEC	969 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	EC50	> 10 - 100 mg/l	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	EC10	> 1 mg/l	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	NOEC	2,4 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	not specified
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	EC50	127,9 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	not specified

#### 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
Citric acid 77-92-9	EC0	1.000 mg/l	30 min	not specified	not specified
(2-Methoxymethylethoxy)propanol 34590-94-8	EC10	4.168 mg/l	18 h	Pseudomonas putida	other guideline:
Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	EC10	48 mg/l	17 h	activated sludge	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-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
Citric acid 77-92-9	readily biodegradable	aerobic	79 %	30 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
(2-Methoxymethylethoxy)propanol 34590-94-8	readily biodegradable	aerobic	76 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
(2-Methoxymethylethoxy)propanol 34590-94-8	inherently biodegradable	aerobic	94 %	13 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	readily biodegradable	not specified	> 60 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	readily biodegradable	aerobic	> 60 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

### 12.3. Bioaccumulative potential

No data available.

#### 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
Citric acid 77-92-9	> -1,8 - -1,6		other guideline:
(2-Methoxymethylethoxy)propanol 34590-94-8	0,004	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	3,2	23 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

#### 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
Citric acid 77-92-9	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Sulfuric acid 7664-93-9	According to Annex XIII to Regulation (EC) No 1907/2006, a PBT and vPvB assessment shall not be conducted for inorganic substances.
(2-Methoxymethylethoxy)propanol 34590-94-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	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

If acidic or alkaline products are discharged into wastewater installations care must be taken that the discharged wastewater has a pH in the range pH 6 - 10, as pH variations could cause disorders in wastewater channels and biological sewage treatment plants. The local discharge regulations take precedence.

### 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.

EWC/EAK 070608

## SECTION 14: Transport information

### 14.1. UN number or ID number

ADR	2584
RID	2584
ADN	2584
IMDG	2584
IATA	2584

### 14.2. UN proper shipping name

ADR	ALKYLSULPHONIC ACIDS, LIQUID
RID	ALKYLSULPHONIC ACIDS, LIQUID
ADN	ALKYLSULPHONIC ACIDS, LIQUID
IMDG	ALKYLSULPHONIC ACIDS, LIQUID
IATA	Alkylsulphonic acids, liquid

### 14.3. Transport hazard class(es)

ADR	8
RID	8
ADN	8
IMDG	8
IATA	8

### 14.4. Packing group

ADR	II
RID	II
ADN	II
IMDG	II
IATA	II

### 14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

### 14.6. Special precautions for user

ADR	not applicable Tunnelcode: (E)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

### 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)	5,0 %

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Please see [https://ec.europa.eu/home-affairs/what-we-do/policies/counter-terrorism/protection/implementation-explosives-precursors-legislation\\_en](https://ec.europa.eu/home-affairs/what-we-do/policies/counter-terrorism/protection/implementation-explosives-precursors-legislation_en).

### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

#### National regulations/information (Germany):

WGK:	WGK 1: slightly hazardous to water (Ordinance on facilities for handling substances that are hazardous to water (AwSV) ) Classification according to AwSV, Annex 1 (5.2)
Storage class according to TRGS 510:	8A

## 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:

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
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:

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