



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

Page 1 of 20

BONDERITE S-ST 6776 LO PAINT STRIPPER AERO

SDS No. : 98112
V011.0

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

1.1. Product identifier

BONDERITE S-ST 6776 LO PAINT STRIPPER AERO

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

Intended use:
Paint stripping agents

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

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

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):

Skin irritation Category 2

H315 Causes skin irritation.

Serious eye irritation Category 2

H319 Causes serious eye irritation.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Chronic hazards to the aquatic environment Category 3

H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:**Contains**

benzyl alcohol

sodium benzothiazol-2-yl sulphide

Signal word:

Warning

Hazard statement:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Supplemental information

Mix well before use.

Precautionary statement:
Prevention

P261 Avoid breathing mist/spray.
P280 Wear protective gloves/eye protection.

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
Benzyl formate 104-57-4 203-214-4 01-2120105149-64	10- < 17 %	Skin Irrit. 2, H315 Acute Tox. 4, Oral, H302		
benzyl alcohol 100-51-6 202-859-9 01-2119492630-38	10- < 12 %	Acute Tox. 4, Oral, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317	dermal:ATE = 2.500 mg/kg oral:ATE = 1.200 mg/kg	
formic acid 64-18-6 200-579-1 01-2119491174-37	1- < 6 %	Acute Tox. 4, Oral, H302 Acute Tox. 3, Inhalation, H331 Eye Dam. 1, H318 Skin Corr. 1A, H314 Flam. Liq. 3, H226	Skin Irrit. 2; H315; C 2 - < 10 % Eye Irrit. 2; H319; C 2 - < 10 % Skin Corr. 1B; H314; C 10 - < 90 % Skin Corr. 1A; H314; C >= 90 %	EU OEL
Benzene, C10-13-alkyl derivs. 67774-74-7 267-051-0 01-2119489372-31	1- < 5 %	Asp. Tox. 1, H304		
sodium benzothiazol-2-yl sulphide 2492-26-4 219-660-8 01-2119493018-35	0,1- < 1 %	Met. Corr. 1, H290 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Eye Dam. 1, H318	M acute = 1 M chronic = 1	
2-Heptadecenyl-1-(2-hydroxyethyl)imidazoline 27136-73-8 248-248-0	0,1- < 1 %	Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 4, Oral, H302 Eye Dam. 1, H318	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".

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

5 - 15 % aromatic hydrocarbons
contains Perfumes

Allergenic fragrance Benzyl Alcohol
ingredients >=100 ppm:

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Fresh air, oxygen supply, warmth; seek specialist medical attention.

Skin contact:

IF ON SKIN: Wash with plenty of soap and water.

In case of adverse health effects seek medical advice.

Eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

In case of adverse health effects seek medical advice.

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

SKIN: Rash, Urticaria.

SKIN: Redness, inflammation.

EYE: Irritation, conjunctivitis.

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:

Carbon dioxide, foam, powder

Fine water spray

Extinguishing media which must not be used for safety reasons:

Water jet (solvent-containing product).

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 self-contained breathing apparatus.

Wear protective equipment.

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

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

Take up with liquid-absorbing material (sand).

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

Avoid skin and eye contact.

Ensure that workrooms are adequately ventilated.

See advice in section 8

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

Take measures to prevent the build-up of electrostatic charges.

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

Store only in the original container.

Store in a cool, frost-free place.

Keep away from strongly alkaline products.

7.3. Specific end use(s)

Paint stripping agents

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational Exposure Limits**Valid for
Germany

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Benzyl alcohol 100-51-6			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
Benzyl alcohol 100-51-6	5	22	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
Benzyl alcohol 100-51-6			Skin designation:	Can be absorbed through the skin.	TRGS 900
Formic acid 64-18-6 [FORMIC ACID]	5	9	Time Weighted Average (TWA):	Indicative	ECTLV
Formic acid 64-18-6			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
Formic acid 64-18-6	5	9,5	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

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Benzyl alcohol 100-51-6	Soil				0,456 mg/kg		
Benzyl alcohol 100-51-6	sewage treatment plant (STP)		39 mg/l				
Benzyl alcohol 100-51-6	sediment (freshwater)				5,27 mg/kg		
Benzyl alcohol 100-51-6	sediment (marine water)				0,527 mg/kg		
Benzyl alcohol 100-51-6	aqua (marine water)		0,1 mg/l				
Benzyl alcohol 100-51-6	aqua (intermittent releases)		2,3 mg/l				
Benzyl alcohol 100-51-6	aqua (freshwater)		1 mg/l				
Benzyl alcohol 100-51-6	Predator						no potential for bioaccumulation
formic acid 64-18-6	aqua (freshwater)		2 mg/l				
formic acid 64-18-6	aqua (marine water)		0,2 mg/l				
formic acid 64-18-6	aqua (intermittent releases)		1 mg/l				
formic acid 64-18-6	sediment (freshwater)				13,4 mg/kg		
formic acid 64-18-6	sediment (marine water)				1,34 mg/kg		
formic acid 64-18-6	Soil				1,5 mg/kg		
formic acid 64-18-6	sewage treatment plant (STP)		7,2 mg/l				
Benzene, C10-13-alkyl derivs. 67774-74-7	sewage treatment plant (STP)		14,2 mg/l				
Benzene, C10-13-alkyl derivs. 67774-74-7	Soil				7,96 mg/kg		
Sodium benzothiazol-2-yl sulphide 2492-26-4	aqua (freshwater)		0,0041 mg/l				
Sodium benzothiazol-2-yl sulphide 2492-26-4	aqua (marine water)		0,00041 mg/l				
Sodium benzothiazol-2-yl sulphide 2492-26-4	sewage treatment plant (STP)		0,3 mg/l				
Sodium benzothiazol-2-yl sulphide 2492-26-4	sediment (freshwater)				0,147 mg/kg		
Sodium benzothiazol-2-yl sulphide 2492-26-4	sediment (marine water)				0,0147 mg/kg		
Sodium benzothiazol-2-yl sulphide 2492-26-4	Soil				0,027 mg/kg		
Sodium benzothiazol-2-yl sulphide 2492-26-4	Freshwater - intermittent		0,005 mg/l				

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Benzyl alcohol 100-51-6	General population	oral	Acute/short term exposure - systemic effects		20 mg/kg	no potential for bioaccumulation
Benzyl alcohol 100-51-6	General population	oral	Long term exposure - systemic effects		4 mg/kg	no potential for bioaccumulation
Benzyl alcohol 100-51-6	Workers	inhalation	Acute/short term exposure - systemic effects		110 mg/m3	no potential for bioaccumulation
Benzyl alcohol 100-51-6	Workers	inhalation	Long term exposure - systemic effects		22 mg/m3	no potential for bioaccumulation
Benzyl alcohol 100-51-6	General population	inhalation	Acute/short term exposure - systemic effects		27 mg/m3	no potential for bioaccumulation
Benzyl alcohol 100-51-6	General population	inhalation	Long term exposure - systemic effects		5,4 mg/m3	no potential for bioaccumulation
Benzyl alcohol 100-51-6	Workers	dermal	Acute/short term exposure - systemic effects		40 mg/kg	no potential for bioaccumulation
Benzyl alcohol 100-51-6	Workers	dermal	Long term exposure - systemic effects		8 mg/kg	no potential for bioaccumulation
Benzyl alcohol 100-51-6	General population	dermal	Acute/short term exposure - systemic effects		20 mg/kg	no potential for bioaccumulation
Benzyl alcohol 100-51-6	General population	dermal	Long term exposure - systemic effects		4 mg/kg	no potential for bioaccumulation
formic acid 64-18-6	Workers	inhalation	Long term exposure - local effects		9,5 mg/m3	
formic acid 64-18-6	General population	inhalation	Long term exposure - local effects		3 mg/m3	
formic acid 64-18-6	Workers	inhalation	Long term exposure - systemic effects		9,5 mg/m3	
formic acid 64-18-6	General population	inhalation	Long term exposure - systemic effects		3 mg/m3	
Benzene, C10-13-alkyl derivs. 6774-74-7	Workers	dermal	Long term exposure - systemic effects		1,75 mg/kg	
Benzene, C10-13-alkyl derivs. 6774-74-7	Workers	inhalation	Long term exposure - systemic effects		1,23 mg/m3	
Benzene, C10-13-alkyl derivs. 6774-74-7	General population	dermal	Long term exposure - systemic effects		0,63 mg/kg	
Benzene, C10-13-alkyl derivs. 6774-74-7	General population	inhalation	Long term exposure - systemic effects		0,22 mg/m3	
Benzene, C10-13-alkyl derivs. 6774-74-7	General population	oral	Long term exposure - systemic effects		0,13 mg/kg	
Sodium benzothiazol-2-yl sulphide 2492-26-4	Workers	inhalation	Acute/short term exposure - systemic effects		10 mg/m3	
Sodium benzothiazol-2-yl sulphide 2492-26-4	Workers	inhalation	Long term exposure - systemic effects		10 mg/m3	
Sodium benzothiazol-2-yl sulphide 2492-26-4	Workers	inhalation	Acute/short term exposure - local effects		1 mg/m3	
Sodium benzothiazol-2-yl sulphide 2492-26-4	Workers	inhalation	Long term exposure - local		1 mg/m3	

			effects			
Sodium benzothiazol-2-yl sulphide 2492-26-4	General population	oral	Acute/short term exposure - systemic effects		1,5 mg/kg	
Sodium benzothiazol-2-yl sulphide 2492-26-4	General population	oral	Long term exposure - systemic effects		1,5 mg/kg	
Sodium benzothiazol-2-yl sulphide 2492-26-4	General population	inhalation	Acute/short term exposure - systemic effects		2,5 mg/m3	
Sodium benzothiazol-2-yl sulphide 2492-26-4	General population	inhalation	Long term exposure - systemic effects		2,5 mg/m3	
Sodium benzothiazol-2-yl sulphide 2492-26-4	General population	inhalation	Acute/short term exposure - local effects		1 mg/m3	
Sodium benzothiazol-2-yl sulphide 2492-26-4	General population	inhalation	Long term exposure - local effects		1 mg/m3	
Sodium benzothiazol-2-yl sulphide 2492-26-4	General population	dermal	Long term exposure - systemic effects		1,5 mg/kg	
Sodium benzothiazol-2-yl sulphide 2492-26-4	General population	dermal	Acute/short term exposure - systemic effects		1,5 mg/kg	
Sodium benzothiazol-2-yl sulphide 2492-26-4	Workers	dermal	Long term exposure - systemic effects		2,8 mg/kg	
Sodium benzothiazol-2-yl sulphide 2492-26-4	Workers	dermal	Acute/short term exposure - systemic effects		2,8 mg/kg	

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): Isobutylene-isoprene rubber (IIR; ≥ 0.7 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; ≥ 0.7 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 goggles

Protective eye equipment should conform to EN166.

Skin protection:

Suitable protective clothing

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Delivery form	liquid
Colour	green
Odor	pungent
Physical state	liquid
Melting point	Not applicable, Product is a liquid
Solidification temperature	0 °C (32 °F) Aqueous solution
Initial boiling point	100 - 110 °C (212 - 230 °F)no method / method unknown Aqueous solution
Flammability	The product is not flammable.
Explosive limits	Not applicable, The product is not flammable.
Flash point	> 93 °C (> 199.4 °F); Supplier method
Auto-ignition temperature	Not applicable, The product is not flammable.
Decomposition temperature	Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use 2,5
pH	
(20 °C (68 °F); Conc.: 100 % product)	
Viscosity (kinematic)	1 - 10 mm ² /s
(40 °C (104 °F);)	
Viscosity, dynamic	8.000 - 25.000 mPa.s viscosity, Brookfield
(Brookfield; 25 °C (77 °F); speed of rotation: 5 min-1; Spindle No: 3; Conc.: 100 %)	
Solubility (qualitative)	Soluble
(20 °C (68 °F); Solvent: Water)	
Partition coefficient: n-octanol/water	Not applicable
Vapour pressure	Mixture
(20 °C (68 °F))	25 - 30 mbar;None
Density	1,05 - 1,10 g/cm ³ no method / method unknown
(20 °C (68 °F))	
Relative vapour density:	< 1
(20 °C)	
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
Benzyl formate 104-57-4	LD50	1.000 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
benzyl alcohol 100-51-6	Acute toxicity estimate (ATE)	1.200 mg/kg		Expert judgement
formic acid 64-18-6	LD50	730 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Benzene, C10-13-alkyl derivs. 67774-74-7	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
sodium benzothiazol-2-yl sulphide 2492-26-4	LD50	2.100 mg/kg	rat	not specified
2-Heptadecenyl-1-(2- hydroxyethyl)imidazoline 27136-73-8	LD50	710 mg/kg	rat	not specified

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
benzyl alcohol 100-51-6	Acute toxicity estimate (ATE)	2.500 mg/kg		Expert judgement
formic acid 64-18-6	LD50	> 2.000 mg/kg	rat	not specified
Benzene, C10-13-alkyl derivs. 67774-74-7	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
sodium benzothiazol-2-yl sulphide 2492-26-4	LD50	> 7.940 mg/kg	rabbit	not specified

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
benzyl alcohol 100-51-6	LC50	> 5,4 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
formic acid 64-18-6	LC50	7,85 mg/l	vapour	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Benzene, C10-13-alkyl derivs. 67774-74-7	LC50	> 1,82 mg/l	dust/mist		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
Benzyl formate 104-57-4	Category 2 (irritant)		Human, EpiDerm™ SIT (EPI-200), Reconstructed Human Epidermis (RHE)	OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)
benzyl alcohol 100-51-6	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
formic acid 64-18-6	corrosive		human	not specified
Benzene, C10-13-alkyl derivs. 67774-74-7	slightly irritating	4 h	rabbit	not specified
2-Heptadecenyl-1-(2- hydroxyethyl)imidazoline 27136-73-8	corrosive		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
Benzyl formate 104-57-4	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
benzyl alcohol 100-51-6	irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Benzene, C10-13-alkyl derivs. 67774-74-7	not irritating		rabbit	not specified

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
Benzyl formate 104-57-4	not sensitising	Direct peptide reactivity assay (DPRA)		OECD Guideline 442C (Direct Peptide Reactivity Assay (DPRA))
formic acid 64-18-6	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Benzene, C10-13-alkyl derivs. 67774-74-7	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
Benzyl formate 104-57-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
benzyl alcohol 100-51-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
formic acid 64-18-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
formic acid 64-18-6	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
formic acid 64-18-6	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
formic acid 64-18-6	negative	sister chromatid exchange assay in mammalian cells	with and without		OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells)
Benzene, C10-13-alkyl derivs. 67774-74-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		EU Method B.13/14 (Mutagenicity)
Benzene, C10-13-alkyl derivs. 67774-74-7	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation 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
benzyl alcohol 100-51-6	not carcinogenic	oral: gavage	104 weeks once daily, 5 days/week	rat	male/female	equivalent or similar OECD Guideline 451 (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
benzyl alcohol 100-51-6	NOAEL P 200 mg/kg	screening	oral: gavage	mouse	not specified
formic acid 64-18-6	NOAEL P 1.000 mg/kg NOAEL F1 1.000 mg/kg NOAEL F2 1.000 mg/kg	Two generation study	oral: feed	rat	OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)
Benzene, C10-13-alkyl derivs. 67774-74-7	NOAEL P >= 50 mg/kg NOAEL F1 >= 50 mg/kg NOAEL F2 >= 50 mg/kg	Two generation study	oral: gavage	rat	OECD Guideline 416 (Two- Generation Reproduction 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
benzyl alcohol 100-51-6	NOAEL 400 mg/kg	oral: gavage	13 weeks once daily, 5 days/week	rat	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
formic acid 64-18-6	NOAEL 400 mg/kg	oral: feed	52 w daily	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
formic acid 64-18-6	NOAEL 0,122 mg/l	inhalation	13 w 6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Benzene, C10-13-alkyl derivs. 67774-74-7	NOAEL 50 mg/kg	oral: gavage	127 d daily	rat	other guideline:

Aspiration hazard:

The mixture is classified based on Viscosity data.

Hazardous substances CAS-No.	Viscosity (kinematic) Value	Temperature	Method	Remarks
Benzene, C10-13-alkyl derivs. 67774-74-7	4,23 mm ² /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.

The product does not contain surface-active substances as defined in the EU Detergent Regulation (EC/648/2004).

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
benzyl alcohol 100-51-6	LC50	460 mg/l	96 h	Pimephales promelas	EPA OPP 72-1 (Fish Acute Toxicity Test)
formic acid 64-18-6	LC50	130 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Benzene, C10-13-alkyl derivs. 67774-74-7	LC50	Toxicity > Water solubility	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Benzene, C10-13-alkyl derivs. 67774-74-7	NOEC	Toxicity > Water solubility	14 d	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
sodium benzothiazol-2-yl sulphide 2492-26-4	LC50	0,73 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
sodium benzothiazol-2-yl sulphide 2492-26-4	NOEC	0,041 mg/l	89 d	Oncorhynchus mykiss	OECD Guideline 210 (fish early life stage toxicity test)
2-Heptadecenyl-1-(2-hydroxyethyl)imidazoline 27136-73-8	LC50	0,33 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (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
Benzyl formate 104-57-4	EC50	> 102,2 mg/l	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)
benzyl alcohol 100-51-6	EC50	230 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
formic acid 64-18-6	EC50	365 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Benzene, C10-13-alkyl derivs. 67774-74-7	EC50	Toxicity > Water solubility	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)
sodium benzothiazol-2-yl sulphide 2492-26-4	EC50	0,71 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-Heptadecenyl-1-(2-hydroxyethyl)imidazoline 27136-73-8	EC50	0,29 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
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benzyl alcohol 100-51-6	NOEC	51 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
formic acid 64-18-6	NOEC	100 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Benzene, C10-13-alkyl derivs. 67774-74-7	NOELR	Toxicity > Water solubility	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
sodium benzothiazol-2-yl sulphide 2492-26-4	NOEC	0,08 mg/l	21 day	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
Benzyl formate 104-57-4	EC50	206 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Benzyl formate 104-57-4	NOEC	4,26 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
benzyl alcohol 100-51-6	EC50	770 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
benzyl alcohol 100-51-6	NOEC	310 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
formic acid 64-18-6	EC50	1.240 mg/l	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
formic acid 64-18-6	EC10	295 mg/l	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Benzene, C10-13-alkyl derivs. 67774-74-7	EC50	Toxicity > Water solubility	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Benzene, C10-13-alkyl derivs. 67774-74-7	NOEC	Toxicity > Water solubility	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
sodium benzothiazol-2-yl sulphide 2492-26-4	IC50	0,5 mg/l	72 h	Pseudokirchneriella subcapitata	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
benzyl alcohol 100-51-6	EC10	658 mg/l	17 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
formic acid 64-18-6	EC10	33,9 mg/l	17 h		not specified
Benzene, C10-13-alkyl derivs. 67774-74-7	EC0	Toxicity > Water solubility	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
sodium benzothiazol-2-yl sulphide 2492-26-4	EC0	> 1.000 mg/l	18 h		not specified
2-Heptadecenyl-1-(2-hydroxyethyl)imidazoline 27136-73-8	EC50	48 mg/l			OECD Guideline 209 (Activated Sludge, Respiration Inhibition 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
Benzyl formate 104-57-4	readily biodegradable	aerobic	71 %	28 d	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
benzyl alcohol 100-51-6	readily biodegradable	aerobic	92 - 96 %	14 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
formic acid 64-18-6	readily biodegradable	aerobic	72 - 92 %	28 d	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Benzene, C10-13-alkyl derivs. 67774-74-7	readily biodegradable	aerobic	60 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
sodium benzothiazol-2-yl sulphide 2492-26-4		aerobic	0 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
2-Heptadecenyl-1-(2- hydroxyethyl)imidazoline 27136-73-8		aerobic	42 %	28 d	ISO 10708 (BODIS-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
Benzene, C10-13-alkyl derivs. 67774-74-7	35	48 h	22 °C	Lepomis macrochirus	other guideline:

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
Benzyl formate 104-57-4	1,79	21,9 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
benzyl alcohol 100-51-6	1,05	20 °C	EU Method A.8 (Partition Coefficient)
formic acid 64-18-6	-2,1	23 °C	EU Method A.8 (Partition Coefficient)
Benzene, C10-13-alkyl derivs. 67774-74-7	6,4	25 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
sodium benzothiazol-2-yl sulphide 2492-26-4	2,42		OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask 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
benzyl alcohol 100-51-6	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
formic acid 64-18-6	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Benzene, C10-13-alkyl derivs. 67774-74-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
sodium benzothiazol-2-yl sulphide 2492-26-4	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.

The product contains organic solvents which are insoluble in water. According to the requirements of the ATV regulations for the discharge of wastewater from commercial and industrial plant, organic solvents which are immiscible with water can only be discharged to an extent which corresponds to their solubility in water. 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

110105

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**

ADR	3412
RID	3412
ADN	3412
IMDG	3412
IATA	3412

14.2. UN proper shipping name

ADR	FORMIC ACID (solution)
RID	FORMIC ACID (solution)
ADN	FORMIC ACID (solution)
IMDG	FORMIC ACID (solution)
IATA	Formic acid (solution)

14.3. Transport hazard class(es)

ADR	8
RID	8
ADN	8
IMDG	8
IATA	8

14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

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)	21,6 %

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)
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Storage class according to TRGS 510:	8A
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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:

H226 Flammable liquid and vapour.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic 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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