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

SDS No. : 378483
V005.0

BONDERITE C-MC X MAINTENANCE CLEANER known as P3-X

Revision: 20.09.2024
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

BONDERITE C-MC X MAINTENANCE CLEANER known as P3-X
UFI: 6TYT-3W54-K20T-1Q4A

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 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 www.mysds.henkel.com 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 Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

Sodium silicate

Signal word: Danger

Hazard statement: H315 Causes skin irritation.
H318 Causes serious eye damage.

Supplemental information Contains: Isoeugenol May produce an allergic reaction.

Precautionary statement: Prevention P280 Wear protective gloves/eye protection.

Precautionary statement: Response P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor.

2.3. Other hazards

None if used properly.

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
Sodium carbonate 497-19-8 207-838-8 01-2119485498-19	20- < 40 %	Eye Irrit. 2, H319		
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 270-115-0 01-2119489428-22	5- < 10 %	Acute Tox. 4, Oral, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412		
Sodium silicate 1344-09-8 215-687-4 01-2119448725-31	5- < 10 %	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, Inhalation, H335		
Alcohols, C12-18, ethoxylated 68213-23-0 500-201-8	1- < 3 %	Acute Tox. 4, Oral, H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412		
Isoeugenol 97-54-1 202-590-7	0,001- < 0,01 %	Acute Tox. 4, Inhalation, H332 STOT SE 3, H335 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Skin Irrit. 2, Dermal, H315 Acute Tox. 4, Dermal, H312 Acute Tox. 4, Oral, H302	Skin Sens. 1A; H317; C >= 0,01 %	

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 %	anionic surfactants
< 5 %	non-ionic surfactants
	phosphonates
	polycarboxylates
contains	Perfumes
Allergenic fragrance ingredients >=100 ppm:	Hexyl Cinnamal, Limonene, Butylphenyl Methylpropional

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Remove person from dust-contaminated zone, seek medical advice if necessary.

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:
Drink 1-2 glasses of water, do not induce vomiting, administer an antifoaming agent (sab simplex), seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed
SKIN: Redness, inflammation.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

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.
Water spray jet

Extinguishing media which must not be used for safety reasons:
Water

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:
The product itself does not burn. Any fire extinguishing action should be appropriate to the surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Avoid contact with skin and eyes.
Avoid dust formation.

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

6.3. Methods and material for containment and cleaning up
Remove mechanically.
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
Avoid dust formation.

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

7.2. Conditions for safe storage, including any incompatibilities
Store in sealed original container.

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
Great Britain

Ingredient [Regulated substance]	ppm	mg/m^3	Value type	Short term exposure limit category / Remarks	Regulatory list
[DUST, INHALABLE DUST]		10	Time Weighted Average (TWA):		EH40 WEL
[DUST, RESPIRABLE DUST PARTÍCULAS (INSOLUBLES O POCO SOLUBLES) NO ESPECIFICADAS DE OTRA FORMA, FRACCIÓN RESPIRABLE]		4	Time Weighted Average (TWA):		EH40 WEL

Occupational Exposure Limits

Valid for
Ireland

Ingredient [Regulated substance]	ppm	mg/m^3	Value type	Short term exposure limit category / Remarks	Regulatory list
[DUSTS NON-SPECIFIC]		10	Time Weighted Average (TWA):		IR_OEL
[DUSTS NON-SPECIFIC]		4	Time Weighted Average (TWA):		IR_OEL

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
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		
Silicic acid, sodium salt 1344-09-8	aqua (freshwater)		7,5 mg/l				
Silicic acid, sodium salt 1344-09-8	aqua (marine water)		1 mg/l				
Silicic acid, sodium salt 1344-09-8	sewage treatment plant (STP)		348 mg/l				
Silicic acid, sodium salt 1344-09-8	aqua (intermittent releases)		7,5 mg/l				

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Sodium carbonate 497-19-8	Workers	inhalation	Long term exposure - local effects		10 mg/m3	
Sodium carbonate 497-19-8	General population	inhalation	Acute/short term exposure - local effects		10 mg/m3	
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	
Silicic acid, sodium salt 1344-09-8	Workers	dermal	Long term exposure - systemic effects		1,59 mg/kg	
Silicic acid, sodium salt 1344-09-8	Workers	inhalation	Long term exposure - systemic effects		5,61 mg/m3	
Silicic acid, sodium salt 1344-09-8	General population	dermal	Long term exposure - systemic effects		0,8 mg/kg	
Silicic acid, sodium salt 1344-09-8	General population	inhalation	Long term exposure - systemic effects		1,38 mg/m3	
Silicic acid, sodium salt 1344-09-8	General population	oral	Long term exposure - systemic effects		0,8 mg/kg	

Biological Exposure Indices:
None

8.2. Exposure controls:

Engineering controls:
Thorough dedusting.

Respiratory protection:
In case of dust formation, we recommend wearing of appropriate respiratory protection equipment with particle filter P (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:
Goggles which can be tightly sealed.
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	powder
Colour	white
Odor	perfumed
Physical state	solid
Solidification temperature	Not applicable, Product is a solid.
Initial boiling point	Currently under determination
Flammability	Currently under determination
Explosive limits	Not applicable, Product is a solid.
Flash point	Not applicable, Product is a solid.
Auto-ignition temperature	Not applicable, Product is a solid.
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.: 10 g/l; Solvent: Demineralised water)	9,5 - 10,5 PH-value, potentiometer
Viscosity (kinematic)	Not applicable, Product is a solid.
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Soluble
Partition coefficient: n-octanol/water	Not applicable Mixture
Vapour pressure	Currently under determination
Bulk density	610 - 690 g/ml bulk density
Relative vapour density:	Not applicable, Product is a solid.
Particle characteristics	Currently under determination

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity
Reaction with strong acids.
Reaction with acids: production of heat and carbon dioxide.

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
Sodium carbonate 497-19-8	LD50	2.800 mg/kg	rat	not specified
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	LD50	1.080 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Sodium silicate 1344-09-8	LD50	3.400 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Alcohols, C12-18, ethoxylated 68213-23-0	LD50	1.700 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
Sodium carbonate 497-19-8	LD50	> 2.000 mg/kg	rabbit	EPA 16 CFR 1500.40 (Method of testing toxic substances)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Sodium silicate 1344-09-8	LD50	> 5.000 mg/kg	rat	EPA OPPTS 870.1200 (Acute Dermal Toxicity)

Acute inhalative toxicity:

No data available.

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
Sodium carbonate 497-19-8	not 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)
Sodium silicate 1344-09-8	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Alcohols, C12-18, ethoxylated 68213-23-0	moderately irritating	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
Sodium carbonate 497-19-8	irritating		rabbit	not specified
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)
Sodium silicate 1344-09-8	corrosive		Rabbit, eye, in vitro	In vitro
Alcohols, C12-18, ethoxylated 68213-23-0	highly 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
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Sodium silicate 1344-09-8	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

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
Sodium carbonate 497-19-8	negative	bacterial reverse mutation assay (e.g Ames test)	with		Ames 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)
Sodium silicate 1344-09-8	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Sodium silicate 1344-09-8	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Sodium silicate 1344-09-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Carcinogenicity

No data available.

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
Sodium silicate 1344-09-8	NOAEL P > 159 mg/kg	multigeneration study	oral: drinking water	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
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	NOAEL 125 mg/kg	oral: gavage	28 d daily	rat	not specified
Sodium silicate 1344-09-8	NOAEL 2.400 mg/kg	oral: feed	4 w daily	rat	OECD Guideline 407 (Repeated Dose 28-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 / surface water / ground water.
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
Sodium carbonate 497-19-8	LC50	300 mg/l	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute 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)
Sodium silicate 1344-09-8	LC50	> 100 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	not specified
Alcohols, C12-18, ethoxylated 68213-23-0	LC50	1,2 mg/l	48 h	Leuciscus idus	DIN 38412-15
Alcohols, C12-18, ethoxylated 68213-23-0	NOEC	0,32 mg/l	28 d	Oncorhynchus mykiss	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)

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
Sodium carbonate 497-19-8	EC50	> 200 - 227 mg/l	48 h	Ceriodaphnia sp.	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)
Sodium silicate 1344-09-8	EC50	1.700 mg/l	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)
Alcohols, C12-18, ethoxylated 68213-23-0	EC50	3 mg/l	24 h	Daphnia magna	not specified
Isoeugenol 97-54-1	EC50	7,5 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
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	NOEC	1,18 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Alcohols, C12-18, ethoxylated	NOEC	0,24 mg/l			OECD 211 (Daphnia

68213-23-0					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
Sodium carbonate 497-19-8	EC50	137 mg/l	5 d	Nitzschia sp.	OECD Guideline 201 (Alga, Growth 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)
Sodium silicate 1344-09-8	EC50	> 345,4 mg/l	72 h	Desmodesmus subspicatus	DIN 38412-09
Alcohols, C12-18, ethoxylated 68213-23-0	EC50	3,1 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09

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
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)
Alcohols, C12-18, ethoxylated 68213-23-0	EC0	10.000 mg/l	16 h		not specified

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
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)
Alcohols, C12-18, ethoxylated 68213-23-0	readily biodegradable	aerobic	79 %	30 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Isoeugenol 97-54-1	readily biodegradable	no data	79 %	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**
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3	3,32		not specified
Isoeugenol 97-54-1	2,65		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**
Sodium carbonate 497-19-8	According to Annex XIII to Regulation (EC) No 1907/2006, a PBT and vPvB assessment shall not be conducted for inorganic substances.
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.
Sodium silicate 1344-09-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Alcohols, C12-18, ethoxylated 68213-23-0	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

070601

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 2024/590):	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 %

National regulations/information (Great Britain):

Remarks	Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, e.g COSHH Essentials. EH40 Occupational Exposure Limits Chemicals (Hazard Information & Packaging for Supply) Regulations. The Personnel Protective Equipment at Work Regulations. The Carriage of Dangerous Goods by Road Regulations. The Health & Safety at Work Act 1974. (Note: Use latest editions/amendments of above referenced documents.)

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.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
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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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.

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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.