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

BONDERITE C-AK 1574 known as Ridoline 1574

SDS No. : 215800
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
BONDERITE C-AK 1574 known as Ridoline 1574

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
Alkaline Cleaner for Industrial Application

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

For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.
SDSinfo.Adhesive@henkel.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.	
Acute toxicity	Category 4
H302 Harmful if swallowed.	
Route of Exposure: Oral	
Skin corrosion	Category 1A
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 Potassium hydroxide

Signal word: Danger

Hazard statement:
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

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

Precautionary statement: Response
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/… if you feel unwell.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. 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 ≥ 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
Potassium hydroxide 1310-58-3 215-181-3 01-2119487136-33	20- 40 %	Skin Corr. 1A, H314 Acute Tox. 4, Oral, H302 Met. Corr. 1, H290	Skin Corr. 1A; H314; C >= 5 % Skin Corr. 1B; H314; C 2 - < 5 % Skin Irrit. 2; H315; C 0,5 - < 2 % Eye Irrit. 2; H319; C 0,5 - < 2 %	
Tetrapotassium pyrophosphate 7320-34-5 230-785-7 01-2119489369-18	5- < 10 %	Eye Irrit. 2, H319 Acute Tox. 4, Oral, H302		
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0 223-267-7 01-2119510382-52 01-2119647955-23	1- < 5 %	Acute Tox. 4, Oral, H302 Eye Irrit. 2, H319	Eye Irrit. 2; H319; C > 30 %	

For full text of the H - statements and other abbreviations see section 16 "Other information".

Substances without classification may have community workplace exposure limits available.
Declaration of ingredients according to Detergent Regulation 648/2004/EC

< 5 %	phosphonates phosphates

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.

INGESTION: Nausea, vomiting, diarrhea, abdominal pain.

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 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.

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

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

6.4. Reference to other sections
See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid skin and eye contact.
Ensure that workrooms are adequately ventilated.
When diluting/dissolving always slowly stir the product into water. Do not add product to hot water or hot solutions. Heating with vigorous, sudden delayed boiling is possible! Scalding hazard!
See advice in section 8

Hygiene measures:
Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke when using this product.
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 in sealed original container.

Keep container tightly sealed.
Keep only in original container.

Keep away from highly acidic substances.
Observe VCI storage rules.

7.3. Specific end use(s)
Alkaline Cleaner for Industrial Application

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Germany

None

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Potassium hydroxide 1310-58-3	Predator						no potential for bioaccumulation
Tetrapotassium pyrophosphate 7320-34-5	Predator						no potential for bioaccumulation
Tetrasodium (1-hydroxyethylidene)bisphosphonate 3794-83-0	aqua (freshwater)		0,096 mg/l				
Tetrasodium (1-hydroxyethylidene)bisphosphonate 3794-83-0	aqua (marine water)		0,01 mg/l				
Tetrasodium (1-hydroxyethylidene)bisphosphonate 3794-83-0	sewage treatment plant (STP)		58 mg/l				
Tetrasodium (1-hydroxyethylidene)bisphosphonate 3794-83-0	sediment (freshwater)				193 mg/kg		
Tetrasodium (1-hydroxyethylidene)bisphosphonate 3794-83-0	sediment (marine water)				19,3 mg/kg		
Tetrasodium (1-hydroxyethylidene)bisphosphonate 3794-83-0	oral				5,3 mg/kg		
Tetrasodium (1-hydroxyethylidene)bisphosphonate 3794-83-0	Soil				14 mg/kg		
Tetrasodium (1-hydroxyethylidene)bisphosphonate 3794-83-0	Air						no hazard identified

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Potassium hydroxide 1310-58-3	Workers	inhalation	Long term exposure - local effects		1 mg/m3	no potential for bioaccumulation
Potassium hydroxide 1310-58-3	General population	inhalation	Long term exposure - local effects		1 mg/m3	no potential for bioaccumulation
Tetrapotassium pyrophosphate 7320-34-5	Workers	inhalation	Long term exposure - systemic effects		17,63 mg/m3	no potential for bioaccumulation
Tetrapotassium pyrophosphate 7320-34-5	General population	inhalation	Long term exposure - systemic effects		4,35 mg/m3	no potential for bioaccumulation
Tetrasodium (1-hydroxyethylidene)bisphosphonate 3794-83-0	General population	oral	Long term exposure - systemic effects		2,4 mg/kg	no hazard identified
Tetrasodium (1-hydroxyethylidene)bisphosphonate 3794-83-0	Workers	dermal	Long term exposure - systemic effects		48 mg/kg	no hazard identified
Tetrasodium (1-hydroxyethylidene)bisphosphonate 3794-83-0	Workers	inhalation	Long term exposure - systemic effects		16,9 mg/m3	no hazard identified
Tetrasodium (1-hydroxyethylidene)bisphosphonate 3794-83-0	Workers	inhalation	Long term exposure - local effects		10 mg/m3	no hazard identified
Tetrasodium (1-hydroxyethylidene)bisphosphonate 3794-83-0	General population	dermal	Long term exposure - systemic effects		24 mg/kg	no hazard identified
Tetrasodium (1-hydroxyethylidene)bisphosphonate 3794-83-0	General population	inhalation	Long term exposure - local effects		10 mg/m3	no hazard identified
Tetrasodium (1-hydroxyethylidene)bisphosphonate 3794-83-0	General population	inhalation	Long term exposure - systemic effects		4,2 mg/m3	no hazard identified

Biological Exposure Indices:
None

8.2. Exposure controls:

Engineering controls:
Ensure good ventilation/extraction.

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

Hand protection:
Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): 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:
Protective clothing that covers arms and legs.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Delivery form	liquid
Colour	colourless
Odor	odourless
Physical state	liquid
Melting point	Not applicable, Product is a liquid
Solidification temperature	< 0 °C (< 32 °F) Aqueous solution
Initial boiling point	> 100 °C (> 212 °F) Aqueous solution
Flammability	Not applicable Aqueous solution
Explosive limits	Not applicable, The product is not flammable.
Flash point	Not applicable, No flash point up to 100°C. Aqueous preparation.
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
pH (20 °C (68 °F); Conc.: 1 % product; Solvent: Demineralised water)	12,4 - 13,0 PH-value, potentiometer
pH (20 °C (68 °F); Conc.: 100 % product)	14 PH-value, potentiometer
Viscosity (kinematic) (40 °C (104 °F);)	1 - 10 mm2/s
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Complete
Partition coefficient: n-octanol/water	Not applicable

	Mixture
Vapour pressure (50 °C (122 °F))	< 100 mbar Values referring to water
Vapour pressure (20 °C (68 °F))	23,4 hPa Values referring to water
Density (20 °C (68 °F))	1,443 - 1,483 g/cm3 Density, oscillation
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
Reacts with acids: Heat released.
Reacts with water: generation of heat.

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
Potassium hydroxide 1310-58-3	LD50	333 mg/kg	rat	equivalent or similar to OECD Guideline 425 (Acute Oral toxicity)
Tetrapotassium pyrophosphate 7320-34-5	LD50	> 300 - < 2.000 mg/kg	rat	OECD Guideline 420 (Acute Oral Toxicity)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	LD50	940 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
Tetrapotassium pyrophosphate 7320-34-5	LD50	> 2.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	LD50	> 2.300 mg/kg	rabbit	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
Tetrapotassium pyrophosphate 7320-34-5	LC50	> 1,1 mg/l	dust	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

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
Potassium hydroxide 1310-58-3	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Tetrapotassium pyrophosphate 7320-34-5	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	not 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
Potassium hydroxide 1310-58-3	corrosive		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Tetrapotassium pyrophosphate 7320-34-5	Category II		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	irritating		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
Potassium hydroxide 1310-58-3	not sensitising	Intracutaneus test	guinea pig	Landsteiner & Jacobs Method
Tetrapotassium pyrophosphate 7320-34-5	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	not sensitising	Guinea pig maximisation test	guinea pig	Magnusson and Kligman Method

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
Potassium hydroxide 1310-58-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
Tetrapotassium pyrophosphate 7320-34-5	negative	bacterial reverse mutation assay (e.g Ames test)	with		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	negative	in vitro mammalian cell micronucleus test	with and without		OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
Tetrapotassium pyrophosphate 7320-34-5	negative	oral: feed		mouse	OECD Guideline 485 (Genetic Toxicology: Mouse Heritable Translocation Assay)
Tetrapotassium pyrophosphate 7320-34-5	negative	oral: unspecified		rat	OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	negative	oral: gavage		mouse	equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal 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
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	not carcinogenic	oral: feed	104 w continuous	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
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	NOAEL P 112 mg/kg NOAEL F1 112 mg/kg	two-generation study	oral: feed	rat	equivalent or similar to 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
Tetrapotassium pyrophosphate 7320-34-5	NOAEL 500 mg/kg	oral: gavage	90 d Once a day, 5 days a week	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	NOAEL 41 mg/kg	oral: feed	90 d continuous	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:
Do not empty into drains / surface water / ground water.
Locally harmful for aquatic and landliving organisms because of high pH and corrosive properties.
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
Tetrapotassium pyrophosphate 7320-34-5	LC50	> 100 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	LC50	2.180 mg/l	96 h	Cyprinodon variegatus	not specified

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
Tetrapotassium pyrophosphate 7320-34-5	EC50	> 100 mg/l	48 h	Daphnia magna	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	EC50	527 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
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	NOEC	6,75 mg/l	28 d	Daphnia magna	not specified

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
Tetrapotassium pyrophosphate 7320-34-5	EC50	> 100 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Tetrapotassium pyrophosphate 7320-34-5	NOEC	> 100 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity (microorganisms):

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

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Tetrapotassium pyrophosphate 7320-34-5	EC50	> 1.000 mg/l	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	EC0	580 mg/l	30 min		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
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	not readily biodegradable.		5 %	30 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	not inherently biodegradable		33 %	28 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA 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
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	71	49 d	18 °C	Cyprinus carpio	not specified

12.4. Mobility in soil

No data available.

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**
Potassium hydroxide 1310-58-3	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
Tetrapotassium pyrophosphate 7320-34-5	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
Tetrasodium-1-hydroxyethane-1,1-diphosponate 3794-83-0	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

060299

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	1814
RID	1814
ADN	1814
IMDG	1814
IATA	1814

14.2. UN proper shipping name

ADR	POTASSIUM HYDROXIDE SOLUTION
RID	POTASSIUM HYDROXIDE SOLUTION
ADN	POTASSIUM HYDROXIDE SOLUTION
IMDG	POTASSIUM HYDROXIDE SOLUTION
IATA	Potassium hydroxide solution

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)	0 %

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:	8B

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.
H319 Causes serious eye irritation.

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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