

**1 Identification**

**Product identifier**

**Trade name:** epros®Hardener (Comp. A) for silicate resin systems W1, W01, S1, L30E1, L30E3

**CAS Number:**

1344-09-8

**EC number:**

215-687-4

**Relevant identified uses of the substance or mixture and uses advised against**

This product is only for industrial and professional uses.

**Application of the substance / the mixture**

inorganic binder / adhesive for industrial applications

**Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:**

Trelleborg Pipe Seals Duisburg GmbH  
Dr.-Alfred-Herrhausen-Allee 36  
47228 Duisburg / Germany

Telefon +49/2065/999-0

Telefax +49/2065/999-111

**Further information obtainable form: R&D Department**

**Emergency telephone number:** Tel.: +49/2065/999-150

**2 Hazard(s) identification**

**Classification of the substance or mixture**



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

**Label elements**

**GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms**



GHS05

**Signal word** Danger

**Hazard-determining components of labeling:**

Silicic acid, sodium salt, MR > 1,6 < 2,6

**Hazard statements**

Causes skin irritation.

Causes serious eye damage.

**Precautionary statements**

Do not get in eyes, on skin, or on clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Classification system**

**NFPA ratings (scale 0-4)**



Health = 2

Fire = 0

Reactivity = 0

**Other hazards**

**Results of PBT and vPvB assessment**

PBT: Not applicable.

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vPvB: Not applicable.

### 3 Composition/information on ingredients

**Chemical characterization: Substances**
**CAS No. Description:**

1344-09-8 Silicic acid, sodium salt, MR &gt; 1,6 &lt; 2,6

**Identification number(s):**
**EC number:** 215-687-4

**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

CAS: 1344-09-8	Silicic acid, sodium salt, MR > 1,6 < 2,6	50-100%
EINECS: 215-687-4		
Reg.nr.: 01-2119448725-31-0004		

**Additional information**

For the wording of the listed risk phrases refer to section 16.

### 4 First-aid measures

**Description of first aid measures**
**General information** Immediately remove any clothing soiled by the product.

**After skin contact** Immediately rinse with water.

**After eye contact** Rinse opened eye for several minutes under running water.

**After swallowing**

Rinse out mouth and then drink plenty of water.

Call a doctor immediately.

**Information for doctor**
**Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

**Extinguishing media**
**Suitable extinguishing agents**

Product itself is not combustible; define extinguishing measures according to neighbouring conditions.

**Special hazards arising from the substance or mixture**

No further relevant information available.

**Advice for firefighters**
**Protective equipment:** No special measures required.

### 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Particular danger of slipping on leaked/spilled product.

**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

**Handling**
**Precautions for safe handling**

No special precautions are necessary if used correctly.

**Information about protection against explosions and fires:**

No special measures required.

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

**Storage**

**Requirements to be met by storerooms and receptacles:**

Provide alkali-resistant floor.  
Do not use light alloy receptacles.  
Suitable material for receptacles and pipes: steel or stainless steel.  
Unsuitable material for receptacle: aluminium.  
Unsuitable material for receptacle: glass or ceramic.  
Unsuitable material for receptacle: zinc.

**Information about storage in one common storage facility:**

Do not store together with acids.

**Further information about storage conditions:**

Protect from frost.  
storage stability: 12 month

**Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

**Additional information about design of technical systems:**

No further data; see item 7.

**Control parameters**

**Components with limit values that require monitoring at the workplace:**

Not required.

**Additional information:** Exposure scenario: see Annex

**Exposure controls**

**Personal protective equipment**

**General protective and hygienic measures**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

**Breathing equipment:** Not required.

**Protection of hands:**



Protective gloves.

**Material of gloves**

Natural Latex with small amount of polychloroprene Latex. (Lapren, Company KCL)

**Penetration time of glove material**

Value for the permeation: Level  $\leq$  6

Indications are based on information by the producer of the gloves resp. literature or derived from similar substances by analogy.

**Eye protection:**



Tightly sealed goggles.

**Body protection:** Alkaline resistant protective clothing

**9 Physical and chemical properties**

**Information on basic physical and chemical properties**

**General Information**

**Appearance:**

Form:	Fluid
Color:	Colorless
Odor:	Odorless

pH-value at 20 °C (68 °F):	ca. 12.5
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**Change in condition**

Boiling point/Boiling range:	> 100 °C (> 212 °F)
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Flash point:	Not applicable
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Auto igniting:	Product is not selfigniting.
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<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Density at 20 °C (68 °F):</b>	ca. 1.55 g/cm <sup>3</sup>
<b>Solubility in / Miscibility with Water:</b>	Fully miscible
<b>Viscosity:</b>	
dynamic at 20 °C (68 °F):	ca. 600 mPas
Organic solvents:	0.0 %
<b>Other information</b>	No further relevant information available.

**10 Stability and reactivity**

**Reactivity** No further relevant information available.  
**Chemical stability**  
**Thermal decomposition / conditions to be avoided:**  
 No decomposition if used according to specifications.  
**Possibility of hazardous reactions** Strong  
 exothermic reaction with acids Reacts  
 with light alloys to form hydrogen  
**Conditions to avoid** No further relevant information available.  
**Incompatible materials:** No further relevant information available.  
**Hazardous decomposition products:** No dangerous decomposition products known

**11 Toxicological information**

**Information on toxicological effects**

**Acute toxicity:**

<b>LD/LC50 values that are relevant for classification:</b>		
1344-09-8 Silicic acid, sodium salt, MR > 1,6 < 2,6		
Oral	LD 50	> 2000 mg/kg (rat)

**Primary irritant effect:**

**on the skin:** Irritant to skin and mucous membranes.  
**on the eye:** Strong irritant with the danger of severe eye injury.  
**Sensitization:** No sensitizing effects known.

**Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
 Irritant

**Carcinogenic categories**

<b>IARC (International Agency for Research on Cancer)</b>	
Substance is not listed.	
<b>NTP (National Toxicology Program)</b>	
Substance is not listed.	
<b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>	
Substance is not listed.	

**12 Ecological information**

**Toxicity**

<b>Aquatic toxicity:</b>		
1344-09-8 Silicic acid, sodium salt, MR > 1,6 < 2,6		
LC 50 / 96h		> 100 mg/l (zebra-fish)

**Persistence and degradability** No further relevant information available.

**Other information:**

Readily eliminable from water.  
 Inorganic product; biotic degradation not applicable.

**Behavior in environmental systems:**

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

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**Ecotoxicological effects:****Remark:** No toxicity after neutralization.**Behavior in sewage processing plants:**

The product is an alkaline solution. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

**Additional ecological information:****General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.**13 Disposal considerations****Waste treatment methods****Recommendation**

Can be disposed off with rubble after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

**European waste catalogue**

Waste catalogue numbers are to be defined according to the AVV-Regulation, specially for application sectors.

**Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agent:** Water, if necessary with cleansing agents.**14 Transport information**

UN "Model Regulation": Void

**15 Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****SARA Section 355 (extremely hazardous substances)**

Substance is not listed.

**SARA Section 313 (specific toxic chemical listings)**

Substance is not listed.

**TSCA (Toxic Substances Control Act)**

7732-18-5 | water, distilled, conductivity or of similarpurity

**Prop 65 - Chemicals known to cause cancer**

Substance is not listed.

**Carcinogenicity categories****EPA (Environmental Protection Agency)**

Substance is not listed.

**TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

**MAK (German Maximum Workplace Concentration)**

Substance is not listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

**GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms**

GHS05

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USA

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**Signal word** Danger**Hazard-determining components of labeling:**

Silicic acid, sodium salt, MR &gt; 1,6 &lt; 2,6

**Hazard statements**

Causes skin irritation.

Causes serious eye damage.

**Precautionary statements**

Do not get in eyes, on skin, or on clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**National regulations****Water hazard class:** water hazard class 1: slightly hazardous for water**Chemical safety assessment:** A Chemical Safety Assessment has been carried out.**16 Other information**

The product is designed exclusively for professional/industrial application (see product information). This information is based on our 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.

**Department issuing SDS:** Laboratory**Contact:** Mr. Andreas Bichler**Date of preparation / last revision** 08/20/2015 / -**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1