# EZ Add

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
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## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture
Product name : EZ Add
Product code : 8869
Other means of identification : Liquid Additive for Gel Bonded Castable

### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Refractory
Recommended use : Industrial use

### 1.3. Supplier

RHI Magnesita
One Robinson Plaza, Suite 300
6600 Steubenville Pike
Pittsburgh, PA, 15205
United States
T 412-494-4491
Resco_SDS.TDS@rhimagnesita.com - WWW.RescoProducts.com

### 1.4. Emergency telephone number

Emergency number : EMERGENCY ONLY (CHEMTREC) USA & Canada 1-800-424-9300
Outside USA & Canada +1 703-741-5970

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS US classification**

| | | |
|---|---|---|
| Skin corrosion/irritation Category 2 | H315 | Causes skin irritation |
| Serious eye damage/eye irritation Category 2A | H319 | Causes serious eye irritation |

Full text of H statements : see section 16

### 2.2. GHS Label elements, including precautionary statements

**GHS US labeling**

Hazard pictograms (GHS US) :

Signal word (GHS US) : Warning
Hazard statements (GHS US) : H315 - Causes skin irritation
H319 - Causes serious eye irritation
Precautionary statements (GHS US) : P280 - Wear protective gloves, eye protection, face protection.
P302+P352 - If on skin: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|---|---|---|---|
| silicon dioxide, amorphous | CAS-No.: 7631-86-9 | 20 – 50 | Not classified |
| sodium hydroxide | CAS-No.: 1310-73-2 | 0.1 – 0.5 | Not classified |

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person.
First-aid measures after skin contact : Gently wash with plenty of soap and water. If irritation persists, consult a doctor/medical service.
First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth with water.

### 4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms : Causes serious eye irritation. Causes skin irritation.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : No unsuitable extinguishing media known.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Not classified as flammable.

Explosion hazard : Prolonged exposure to fire may cause containers to rupture/explode.

Hazardous decomposition products in case of fire : Fire conditions may produce carbon dioxide-carbon monoxide.

### 5.3. Special protective equipment and precautions for fire-fighters

No additional information available

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Protective gloves.

Emergency procedures : Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

Emergency procedures : Stop leak if safe to do so.

### 6.2. Environmental precautions

Do not allow to enter drains or water courses.

### 6.3. Methods and material for containment and cleaning up

For containment : Dam up the liquid spill.

Methods for cleaning up : Stop the leak. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene measures : Do not eat, drink or smoke when using this product.

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

Storage conditions : Do not freeze.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| sodium hydroxide (1310-73-2) | |
|---|---|
| **USA - ACGIH - Occupational Exposure Limits** | |
| ACGIH OEL Ceiling | 2 mg/m³ |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Dust on tear out. Provide adequate ventilation to minimize dust concentrations.

### 8.3. Individual protection measures/Personal protective equipment

**Personal protective equipment:**

Avoid all unnecessary exposure.

| **Hand protection:** |
|---|
| Wear Impermeable protective gloves. |

| **Eye protection:** |
|---|
| Chemical goggles or safety glasses |

| **Skin and body protection:** |
|---|
| Wear suitable protective clothing |

| **Respiratory protection:** |
|---|
| Dust on tear out. Wear appropriate mask |

## SECTION 9: Physical and chemical properties

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

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Appearance | : | Liquid. |
| Color | : | Off-white Blue |
| Odor | : | odorless |
| Odor threshold | : | No data available |
| pH | : | 9.5 – 9.9 |
| Melting point | : | No data available |
| Freezing point | : | No data available |
| Boiling point | : | No data available |
| Flash point | : | No data available |
| Relative evaporation rate (butyl acetate=1) | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Vapor pressure | : | No data available |
| Relative vapor density at 20°C | : | No data available |
| Relative density | : | ≈ 1.3 |
| Solubility | : | No data available |
| Partition coefficient n-octanol/water (Log Pow) | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosion limits | : | No data available |
| Explosive properties | : | No data available |
| Oxidizing properties | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Protect from freezing.

### 10.5. Incompatible materials

Strong acids.

### 10.6. Hazardous decomposition products

Hazardous decomposition products in case of fire. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| | | |
|---|---|---|
| Acute toxicity (oral) | : | Not classified |
| Acute toxicity (dermal) | : | Not classified |
| Acute toxicity (inhalation) | : | Not classified |

| **silicon dioxide, amorphous (7631-86-9)** | |
|---|---|
| LD50 oral rat | > 5000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s)) |

| silicon dioxide, amorphous (7631-86-9) | |
|---|---|
| LD50 dermal rabbit | > 2000 mg/kg body weight (24 h, Rabbit, Experimental value, Dermal, 2 day(s)) |
| LC50 Inhalation - Rat | > 5.01 mg/l (OECD 436: Acute inhalation toxicity-acute toxic class method, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 15 day(s)) |

Skin corrosion/irritation : Causes skin irritation.
pH: 9.5 – 9.9

| silicon dioxide, amorphous (7631-86-9) | |
|---|---|
| pH | 6.5 – 7.5 (5 %) |

| sodium hydroxide (1310-73-2) | |
|---|---|
| pH | 14 (5 %) |

Serious eye damage/irritation : Causes serious eye irritation.
pH: 9.5 – 9.9

| silicon dioxide, amorphous (7631-86-9) | |
|---|---|
| pH | 6.5 – 7.5 (5 %) |

| sodium hydroxide (1310-73-2) | |
|---|---|
| pH | 14 (5 %) |

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available

| silicon dioxide, amorphous (7631-86-9) | |
|---|---|
| Viscosity, kinematic | Not applicable (solid) |

| sodium hydroxide (1310-73-2) | |
|---|---|
| Viscosity, kinematic | No data available in the literature |

Potential Adverse human health effects and symptoms : Causes serious eye irritation. Causes skin irritation.
Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after eye contact : Causes serious eye irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

| silicon dioxide, amorphous (7631-86-9) | |
|---|---|
| EC50 72h - Algae [1] | > 173.1 mg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP) |

| sodium hydroxide (1310-73-2) | |
|---|---|
| LC50 - Fish [1] | 189 mg/l (48 h, Leuciscus idus, Fresh water, Experimental value) |
| EC50 - Crustacea [1] | 40 mg/l (48 h, Ceriodaphnia sp., Experimental value, Locomotor effect) |

### 12.2. Persistence and degradability

| EZ Add | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| silicon dioxide, amorphous (7631-86-9) | |
|---|---|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |

| silicon dioxide, amorphous (7631-86-9) | |
|---|---|
| ThOD | Not applicable (inorganic) |

| sodium hydroxide (1310-73-2) | |
|---|---|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |

### 12.3. Bioaccumulative potential

| silicon dioxide, amorphous (7631-86-9) | |
|---|---|
| Bioaccumulative potential | Not bioaccumulative. |

| sodium hydroxide (1310-73-2) | |
|---|---|
| Bioaccumulative potential | Not bioaccumulative. |

### 12.4. Mobility in soil

| silicon dioxide, amorphous (7631-86-9) | |
|---|---|
| Surface tension | No data available in the literature |
| Ecology - soil | No (test) data on mobility of the substance available. |

| sodium hydroxide (1310-73-2) | |
|---|---|
| Surface tension | No data available in the literature |
| Ecology - soil | No (test) data on mobility of the substance available. |

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

**Department of Transportation (DOT)**

In accordance with DOT

Not regulated

**Transportation of Dangerous Goods**

Not regulated

**Transport by sea**

Not regulated

**Air transport**

Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

| | | |
|---|---|---|
| silicon dioxide, amorphous | CAS-No. 7631-86-9 | 20 – 50% |
| sodium hydroxide | CAS-No. 1310-73-2 | 0.1 – 0.5% |

### 15.2. International regulations

**CANADA**

No additional information available

**EU-Regulations**

No additional information available

**National regulations**

No additional information available

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 4/4/2025

Other information : Report language name. English. In the event of any conflict between English and other language versions, the English version shall prevail.

| Full text of hazard classes and H-statements | |
|---|---|
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |

Safety Data Sheet (SDS), USA

This information and recommendations set forth herein are taken from sources believed to be accurate as of the date herein, however, RHI Magnesita, Inc. makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.