



# KEIM RESTAURO® Joint Repair Mortar (KEIM RESTAURO-FUGE)

## Safety Data Sheet

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

Revision date: 08/23/2021 Version: 13.0

SDS No: 0503-0053\_US

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : KEIM RESTAURO® Joint Repair Mortar  
(KEIM RESTAURO-FUGE)

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Sealing mortar  
Restrictions on use : All other uses are not recommended

#### 1.3. Supplier

KEIM MINERAL COATINGS OF AMERICA, INC.

3935 Perimeter West Drive, Suite 100

Charlotte, North Carolina 28214

USA

T +1 704 588 4811

Toll Free: +1 866 906 5346 - F +1 704 588 4991

[info@keim.com](mailto:info@keim.com) - [www.keim.com](http://www.keim.com)

E-mail address of competent person responsible for the SDS: [sds@gbk-ingelheim.de](mailto:sds@gbk-ingelheim.de)

#### 1.4. Emergency telephone number

Emergency number : Emergency CONTACT (24-Hour-Number)  
GBK/Infotrac ID 91761: (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

### 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 1  | H318 | Causes serious eye damage         |
| Specific target organ toxicity — Single exposure, Category 3,<br>Respiratory tract irritation | H335 | May cause respiratory 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) : Danger



# KEIM RESTAURO® Joint Repair Mortar (KEIM RESTAURO-FUGE)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
SDS No: 0503-0053\_US

|                                   |   |
|-----------------------------------|---|
| Hazard statements (GHS US)        | : H315 - Causes skin irritation<br>H318 - Causes serious eye damage<br>H335 - May cause respiratory irritation.   |
| Precautionary statements (GHS US) | : P261 - Avoid breathing dust.<br>P271 - Use only outdoors or in a well-ventilated area.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection.<br>P302+P352 - If on skin: Wash with plenty of soap and water.<br>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P315 - Get immediate medical advice/attention.<br>P332+P313 - If skin irritation occurs: Get medical advice/attention.<br>P362 - Take off contaminated clothing and wash before reuse. |

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

Other hazards not contributing to the classification : This product contains cement. Cement produces an alkaline reaction with moisture or water. Avoid contact with eyes and prolonged skin contact.

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

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Comments : Portland cement  
Calcium dihydroxide  
Aggregates  
Additives

| Name            | Product identifier  | %       | GHS US classification                                      |
|-----------------|---------------------|---------|--|
| Portland cement | CAS-No.: 65997-15-1 | 10 - 25 | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335 |

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 : Show this safety data sheet to the doctor in attendance.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.



# KEIM RESTAURO® Joint Repair Mortar (KEIM RESTAURO-FUGE)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
SDS No: 0503-0053\_US

|                                       |  |
|---------------------------------------|--|
| First-aid measures after skin contact | : Wash off immediately with soap and plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.   |
| First-aid measures after eye contact  | : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion    | : Rinse out mouth thoroughly with water. Do NOT induce vomiting. Call a physician immediately.   |

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

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Symptoms/effects after inhalation   | : May cause respiratory irritation. |
| Symptoms/effects after skin contact | : Irritation.                       |
| Symptoms/effects after eye contact  | : Serious damage to eyes.           |

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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

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

|                              |   |
|------------------------------|---|
| Suitable extinguishing media | : Product itself does not burn. Fire-extinguishing activities according to surrounding. |
|------------------------------|---|

### 5.2. Specific hazards arising from the chemical

|  |                                |
|--|--------------------------------|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
|--|--------------------------------|

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

|                                |  |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
| Other information              | : Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.                        |

## SECTION 6: Accidental release measures

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

|                  |   |
|------------------|---|
| General measures | : Forms slippery surfaces with water. Avoid contact with skin, eyes and clothing. |
|------------------|---|

#### 6.1.1. For non-emergency personnel

|                      |  |
|----------------------|--|
| Emergency procedures | : Ventilate spillage area. Avoid breathing dust. |
|----------------------|--|

#### 6.1.2. For emergency responders

|                      |   |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

### 6.2. Environmental precautions

Avoid release to the environment.

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

|                         |   |
|-------------------------|---|
| Methods for cleaning up | : Avoid dust formation. Mechanically recover the product. |
|-------------------------|---|



# KEIM RESTAURO® Joint Repair Mortar (KEIM RESTAURO-FUGE)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
SDS No: 0503-0053\_US

Other information : Dispose of materials or solid residues at an authorized site. Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8. For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid breathing dust. Avoid contact with skin and eyes. Wear personal protective equipment. Keep the container tightly closed. Avoid dust formation. Provide appropriate exhaust ventilation at places of dust forming.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Avoid dust formation.

Heat-ignition : Keep away from heat and direct sunlight.

Information on mixed storage : Do not store with acids. Protect from moisture.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

|  |  |
|--|--|
| <b>KEIM RESTAURO® Joint Repair Mortar<br/>(KEIM RESTAURO-FUGE)</b> |  |
| No additional information available                                |  |
| <b>Portland cement (65997-15-1)</b>                                |  |
| <b>USA - ACGIH - Occupational Exposure Limits</b>                  |  |
| Local name   | Portland cement  |
| ACGIH OEL TWA  | 1 mg/m <sup>3</sup> (E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica, R - Respirable particulate matter) |
| Remark (ACGIH)   | TLV® Basis: Pulm func; resp symptoms; asthma. Notations: A4 (Not classifiable as a Human Carcinogen)   |
| Regulatory reference   | ACGIH 2021   |
| <b>USA - OSHA - Occupational Exposure Limits</b>                   |  |
| Local name   | Portland cement  |
| OSHA PEL TWA [1]   | 15 mg/m <sup>3</sup> (Total dust)<br>5 mg/m <sup>3</sup> (Respirable fraction)   |
| OSHA PEL TWA [2]   | 50 mppcf (Silicates (less than 1% crystalline silica))   |



# KEIM RESTAURO® Joint Repair Mortar (KEIM RESTAURO-FUGE)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
SDS No: 0503-0053\_US

|                                     |   |
|-------------------------------------|---|
| <b>Portland cement (65997-15-1)</b> |   |
| Remark (OSHA)                       | Table Z-3. CAS No. source: eCFR Table Z-1.                          |
| Regulatory reference (US-OSHA)      | OSHA Annotated Table Z-1 and OSHA Annotated Table Z-3 Mineral Dusts |

### 8.2. Appropriate engineering controls

- Appropriate engineering controls : The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Environmental exposure controls : Avoid release to the environment.

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

#### Personal protective equipment:

Wash hands immediately after handling the product. Do not eat, drink or smoke in areas where product is used.

#### Hand protection:

Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. The exact break through time has to be found out by the manufacturer of the protective gloves

| Type              | Material                          | Permeation        | Thickness (mm) | Penetration |
|-------------------|-----------------------------------|-------------------|----------------|-------------|
| protective gloves | Nitrile impregnated cotton gloves | 6 (> 480 minutes) | 0,5            |             |

#### Eye protection:

In case of dust production: protective goggles

#### Skin and body protection:

Protection clothes

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

| Device              | Filter type | Condition       |
|---------------------|-------------|-----------------|
| Breathing equipment | (FFP2)      | Dust protection |

## SECTION 9: Physical and chemical properties

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

- Physical state : Solid
- Appearance : Powder.
- Color : Various, depending on coloration
- Odor : odorless
- Odor threshold : No data available
- pH : ≈ 12 with water mixed
- Melting point : No data available
- The values are for freshly produced material and may change with the time



# KEIM RESTAURO® Joint Repair Mortar (KEIM RESTAURO-FUGE)

## Safety Data Sheet

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

SDS No: 0503-0053\_US

|   |   |
|---|---|
| Freezing point                              | : Not applicable  |
| Boiling point                               | : No data available   |
| Flash point                                 | : No data available   |
| Relative evaporation rate (butyl acetate=1) | : No data available   |
| Flammability (solid, gas)                   | : Non flammable.  |
| Vapor pressure                              | : ≈ 23 hPa  |
| Relative vapor density at 20 °C             | : No data available   |
| Relative density                            | : No data available   |
| Density                                     | : 1.5 – 1.7 g/cm <sup>3</sup> The values are for freshly produced material and may change with the time |
| Solubility                                  | : Miscible with water.  |
| Log Pow                                     | : No data available   |
| Auto-ignition temperature                   | : Not self-igniting   |
| Decomposition temperature                   | : No data available   |
| Viscosity, kinematic                        | : Not applicable  |
| Viscosity, dynamic                          | : No data available   |
| Explosion limits                            | : Not applicable  |
| Explosive properties                        | : Product is not explosive.   |
| Oxidizing properties                        | : No data available   |

### 9.2. Other information

Bulk density : 1.3 – 1.4 g/cm<sup>3</sup> The values are for freshly produced material and may change with the time

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts alkaline with water and become solid.

### 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

Moisture.

### 10.5. Incompatible materials

Acids.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.



# KEIM RESTAURO® Joint Repair Mortar (KEIM RESTAURO-FUGE)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
SDS No: 0503-0053\_US

### 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   |
| Skin corrosion/irritation         | : Causes skin irritation.<br>pH: $\approx$ 12 with water mixed<br>The values are for freshly produced material and may change with the time    |
| Serious eye damage/irritation     | : Causes serious eye damage.<br>pH: $\approx$ 12 with water mixed<br>The values are for freshly produced material and may change with the time |
| Respiratory or skin sensitization | : Not classified<br>Product is reduced in chromate. Within the indicated storage time sensitization is not expected                            |
| Germ cell mutagenicity            | : Not classified   |
| Carcinogenicity                   | : Not classified   |
| Reproductive toxicity             | : Not classified   |
| STOT-single exposure              | : May cause respiratory irritation.  |

#### Portland cement (65997-15-1)

|                      |                                   |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| STOT-repeated exposure              | : Not classified                    |
| Aspiration hazard                   | : Not classified                    |
| Viscosity, kinematic                | : No data available                 |
| Symptoms/effects after inhalation   | : May cause respiratory irritation. |
| Symptoms/effects after skin contact | : Irritation.                       |
| Symptoms/effects after eye contact  | : Serious damage to eyes.           |

### SECTION 12: Ecological information

#### 12.1. Toxicity

|                   |  |
|-------------------|--|
| Ecology - general | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. |
|-------------------|--|

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available



# KEIM RESTAURO® Joint Repair Mortar (KEIM RESTAURO-FUGE)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
SDS No: 0503-0053\_US

### 12.5. Other adverse effects

Other information : Avoid release to the environment. No ecotoxicological data about this product are known.  
Product does not contain any organic bound halogens which could lead to AOX-values.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions. Must not be disposed together with household garbage.

Sewage disposal recommendations : Do not discharge into drains.

Product/Packaging disposal recommendations : Disposal must be done according to official regulations.

Additional information : Clean using water and a detergent.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

| DOT                                     | TDG            | IMDG           | IATA           |
|---|----------------|----------------|----------------|
| <b>14.1. UN number</b>                  |                |                |                |
| Not regulated for transport             |                |                |                |
| <b>14.2. Proper Shipping Name</b>       |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable |
| <b>14.3. Transport hazard class(es)</b> |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable |
| <b>14.4. Packing group</b>              |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable |
| <b>14.5. Environmental hazards</b>      |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable |
| No supplementary information available  |                |                |                |

### 14.6. Special precautions for user

**DOT**  
No data available

**TDG**  
No data available

**IMDG**  
No data available





# KEIM RESTAURO® Joint Repair Mortar (KEIM RESTAURO-FUGE)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
SDS No: 0503-0053\_US

### IATA

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## 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

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

#### CANADA

#### Portland cement (65997-15-1)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

| Component                   | State or local regulations   |
|-----------------------------|--|
| Portland cement(65997-15-1) | U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |

## SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Revision date : 08/23/2021



# KEIM RESTAURO® Joint Repair Mortar (KEIM RESTAURO-FUGE)

## Safety Data Sheet

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

SDS No: 0503-0053\_US

Other information : Data of sections 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

| Full text of H-phrases |                                   |
|------------------------|-----------------------------------|
| H315                   | Causes skin irritation            |
| H318                   | Causes serious eye damage         |
| H335                   | May cause respiratory irritation. |

| Abbreviations and acronyms |   |
|----------------------------|---|
| ADR                        | European Agreement concerning the International Carriage of Dangerous Goods by Road                 |
| ADN                        | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways     |
| IATA                       | International Air Transport Association   |
| IMDG                       | International Maritime Dangerous Goods  |
| RID                        | Regulations concerning the International Carriage of Dangerous Goods by Rail                        |
| DOT                        | Department of Transport   |
| TDG                        | Transportation of Dangerous Goods   |
| REACH                      | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006   |
| GHS                        | Globally Harmonized System of Classification, Labelling and Packaging of Chemicals                  |
| IARC                       | International Agency for Research on Cancer   |
| vPvB                       | Very Persistent and Very Bioaccumulative  |
| PBT                        | Persistent Bioaccumulative Toxic  |
| PNEC                       | Predicted No-Effect Concentration   |
| CAS                        | CAS (Chemical Abstracts Service) number   |
| IBC-Code                   | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk |
| ATE                        | Acute Toxicity Estimate   |
| CLP                        | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                         |
| BCF                        | Bioconcentration factor   |
| MARPOL 73/78               | MARPOL 73/78: International Convention for the Prevention of Pollution From Ships                   |
| ADG                        | Transport of Australian Dangerous Goods   |
| BLV                        | Biological limit value  |



# KEIM RESTAURO® Joint Repair Mortar (KEIM RESTAURO-FUGE)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
SDS No: 0503-0053\_US

| Abbreviations and acronyms |  |
|----------------------------|--|
| BOD                        | Biochemical oxygen demand (BOD)                        |
| COD                        | Chemical oxygen demand (COD)                           |
| DMEL                       | Derived Minimal Effect level                           |
| DNEL                       | Derived-No Effect Level                                |
| EC-No.                     | European Community number                              |
| EC50                       | Median effective concentration                         |
| EN                         | European Standard                                      |
| LC50                       | Median lethal concentration                            |
| LD50                       | Median lethal dose                                     |
| LOAEL                      | Lowest Observed Adverse Effect Level                   |
| NOAEC                      | No-Observed Adverse Effect Concentration               |
| NOAEL                      | No-Observed Adverse Effect Level                       |
| NOEC                       | No-Observed Effect Concentration                       |
| OECD                       | Organisation for Economic Co-operation and Development |
| OEL                        | Occupational Exposure Limit                            |
| SDS                        | Safety Data Sheet                                      |
| STP                        | Sewage treatment plant                                 |
| ThOD                       | Theoretical oxygen demand (ThOD)                       |
| TLM                        | Median Tolerance Limit                                 |
| VOC                        | Volatile Organic Compounds                             |
| CAS-No.                    | Chemical Abstract Service number                       |
| N.O.S.                     | Not Otherwise Specified                                |
| ED                         | Endocrine disrupting properties                        |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should therefore not be construed as guaranteeing any specific property of the product.