

Safety Data Sheet

[Prepared in accordance with EU Regulation 2020/878].

SECTION 1: Identification of the substance/mixture and of the company

1.1. Product identifier

Trade name: **LeakFix**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Quick-setting cement for sealing water leaks

Uses advised against: other than those recommended by the manufacturer given in the manufacturer's technical data sheet.

1.3. Details of the supplier of the safety data sheet

Supplier: **ResinBau Ltd.**

Address: 3 Frezerów Street, 20-209 Lublin, PL.

Phone/Fax: +48 731 904 000

E-mail address of the person responsible for the safety data sheet: info@resinbau.eu

1.4. Emergency phone number

112 (general emergency phone), 998 (fire department), 999 (medical emergency).

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Product definition: mixture

General hazard: product classified in accordance with Regulation (EC) No 1272/2008

Physical hazard: not classified

Health risks:

H315 Irritating to skin, Cat 2: **H315** Irritating to skin.

Skin sensitization, Cat. 1B : **H317** May cause an allergic skin reaction

Serious eye damage, Cat. 1 : **H318**

Causes serious eye damage

Toxic effects on target organs - single exposure, Cat. 3 : **H335** May cause respiratory irritation

2.2. Signage elements

Hazard pictograms and signal word



Danger

Hazard pictograms: GHS05, GHS07

Signal word: Danger Hazard Statements

H315 Actively irritates the skin.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

Precautionary statements

| | |
|------|--|
| | P102 Protect from children |
| | P261 Avoid inhalation of dust. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 IF CONTACT WITH SKIN (or hair): Immediately remove/take off all contaminated clothing. Rinse skin under a stream of water/shower. |
| | P333+P313 In case of skin irritation or rash: Seek medical advice/attention. |
| | P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if any, and they can be easily removed. Continue to rinse. |
| P501 | Dispose of contents/container in properly labeled waste containers in accordance with national regulations. |

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2.3. Other risks

The components of the mixture do not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH. Due to its form - dust, the product may mechanically irritate the eyes and respiratory system.
Proper use of the product does not pose a threat to the environment. During the reaction of the mixture with water, a strongly alkaline environment is formed. The content of soluble chromium (VI) in cement resulting from its composition natural or the use of reducing agents is less than 2 mg/kg (0.0002%) of total dry weight and is limited in accordance with regulations.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

A mixture of Portland cement, quartz sand and additives.

| Product identifier | Content % | Classification | Classification according to Regulation (EC) No 1272/2008 | |
|---|-----------|-------------------------|--|------------------------------|
| | | | Hazard class | Hazard statement codes |
| Cement clinker Portland CAS No.: 65997-15-1 EC no: 266-043-4 | 40-50 | GHS07, GHS05, Danger | Eye Dam.1 STOT SE 3 Skin Irrit. 2 Skin Sens. 1B | H318 H335 H315 H317 |
| Calcium oxide CAS No.: 1305-78-8 EC no: 215-138-9 | 69 | GHS07, GHS05, Danger | Eye Dam.1 STOT SE 3 Skin Irrit. 2 | H318 H335 H315 |

The full text of the H-phrases is quoted in section 16 of the card.

Other information:

- The actual content of hazardous ingredients was used to classify the product.
- The shelf life of the product under conditions in accordance with Section 7, is 12 months from the date of manufacture on the package.
- The content of soluble chromium (VI) in the finished product is <0.0002 %.

SECTION 4:First aid measures

4.1. Description of first aid measures

In contact with the skin

Remove contaminated clothing and shoes, clean before wearing again. Wash skin thoroughly with soap and water or use a proven skin cleanser. If skin irritation or Rash: Seek medical advice/care.

In contact with the eyes

Do not rub your eyes, as this may cause additional mechanical damage. Rinse eyes with plenty of water, remove contact lenses (if any) and move eyelids wide apart and continue to flush eyes with plenty of clean water for about 15 minutes to remove all contaminants. If possible, use isotonic water (0.9% NaCl). Contact an occupational medicine specialist or ophthalmologist.

In case of consumption

Do not induce vomiting. If the victim is conscious, rinse out the mouth with plenty of water and give water to drink. Immediately contact medical help.

After inhalation exposure

Remove or move the victim to fresh air. Ensure calmness and warmth. Arrange The affected person in a position that allows free breathing. Contact a poison center/doctor if symptoms or malaise occur.

4.2. Most important acute and delayed symptoms and effects of exposure

In contact with the skin

The product may cause redness, burning, irritation, allergic reaction.

In contact with the eyes

Risk of serious eye damage.

In case of consumption

Ingestion causes irritation of the mucous membranes of the mouth, tongue, throat, esophagus and further sections of the gastrointestinal tract, symptoms of food poisoning may occur, abdominal pain and nausea, vomiting.

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After inhalation exposure

Inhalation of concentrated vapors and dusts of the product causes irritation of the mucous membranes of the nose, throat and further sections of the respiratory system.

Other effects of exposure

Based on available data, adverse effects of exposure are not known.

4.3. Indication of any immediate medical attention and special treatment of the affected person

Seek medical advice if symptoms or concerns arise. Medical personnel

Show the safety data sheet, label or packaging to the responder. Do not allow mortar to harden, rinse/wash immediately. In case of contact with eyes or mucous membranes, it is advisable to medical consultation. Due to the irritant properties of the product, access to running water is essential. In case of repeated or prolonged contact with the skin, use protective creams. Advice to physician: symptomatic treatment.

SECTION 5:Fire fighting measures

5.1. Extinguishing agents

Suitable extinguishing media: alcohol-resistant foam or dry extinguishing powders (A, B, C), carbon dioxide (extinguisher snow), sand or soil.

Unsuitable extinguishing agents: not known.

5.2. Special hazards associated with the substance or mixture

The mixture is not flammable or explosive and does not support combustion.

5.3. Information for the fire department

Cool the packaged product in the fire zone with a diffused stream of water, if possible remove from the danger zone. In case of fire in an enclosed area, use protective clothing and apparatus

Compressed air respirator. Do not allow fire extinguishing water to enter surface water, groundwater and sewage system.

SECTION 6: Handling of unintentional releases into the environment

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: notify the relevant services of the accident. Remove non-emergency responders from the hazard area.

For emergency responders: Take care of adequate ventilation, use personal protective equipment.

6.2. Environmental precautions

Prevent spreading and entering drains and water bodies, inform local authorities if protection cannot be provided.

6.3. Methods and materials for preventing the spread of contamination and for the removal of contamination

Prevent spreading and dispose of by mechanical collection into properly labeled containers for disposal in accordance with applicable regulations.

6.4. References to other sections

Handling of product waste - see section 13 of the card. Personal protective equipment - see section 8 of the card.

SECTION 7:Handling and storage of substances and mixtures

7.1. Precautions for safe handling

Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid the formation and inhalation of product dust. Work in accordance with safety and hygiene rules: do not eat or drink, do not smoke in the workplace, wash hands after use, remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including information on any incompatibilities

Store in a cool, dry, well-ventilated room in a properly labeled sealed container closed original container. Avoid direct sunlight, hot surfaces, open flames and heat sources. Protect from moisture.

7.3. Specific end use(s) - see section 1.2

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SECTION 8:Exposure controls/personal protective equipment

8.1. Control parameters

Exposure standards for occupational hazards according to the Decree of the Minister of Labor and Social Policy in the On the maximum permissible concentrations and intensities of harmful factors for health in the work environment dated June 12, 2018. (Journal of Laws 2018 item 1286, Journal of Laws 2020 item 61).

Components for which there are exposure standards

| Name / type of relationship | NDS | NDSCh | NDSP |
|--|-------------------|-------|------|
| | mg/m ³ | | |
| Portland cement (total dust / respirable dust) | 6 / 2 | - | - |
| Calcium oxide (total dust / respirable dust) | 2 / 1 | 6 / 4 | - |

8.2. Exposure control

Relevant technical control measures

General ventilation and local exhaust ventilation are recommended. Provide access to running water and do not allow hand washing with water from a bucket used for cleaning tools.

Personal protective equipment

When working, avoid kneeling in fresh mortar. If kneeling is necessary, use the appropriate waterproof protective gear. Do not eat, drink or smoke while working. Wash hands, forearms and face thoroughly before breaks and after work. Remove contaminated clothing and wash it before washing again assumption.

Body protection

Impermeable and alkaline-resistant gloves (e.g., nitrile-coated cotton or nitrile gloves), inside lined with cotton, shoes, long-sleeved/long-legged clothing, and additional skin protection products (including protective creams) to protect the skin from prolonged contact with the wet mixture. In addition, footwear should be protected to prevent wet mixture from getting into them. In special cases, use waterproof pants and knee protectors.

Eye/face protection

Use well-fitting approved goggle-type safety glasses in accordance with EN guidelines when working with dry and wet mixtures.

Respiratory protection

In the case of the ventilation environments, there should be the following (masks or half masks with filters depending on the exposure) such as a full mask with P2 dust filter or a dust mask.

Thermal hazards Not applicable.

Environmental exposure control

Emissions from ventilation systems and process equipment should be checked to determine their compliance with the requirements of environmental laws.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--------------------------------------|-------------------------------|
| State of aggregation:solid | |
| Color: | gray |
| Fragrance: | odorless |
| Melting point/freezing point: | no data available |
| Boiling point or initial temperature | |
| Boiling point and boiling range: | no data |
| Flammability of materials: | no data |
| Lower and upper explosive limits: | no data available |
| Flash point: | no data available |
| Auto-ignition temperature: | no data available |
| Decomposition temperature: | no data |
| pH: | alkaline |
| Kinematic viscosity: | no data |
| Solubility:soluble | in waterPartition coefficient |
| n-octanol/water: | nodata available |
| Vapor pressure: | no data |
| Bulk density: | approximately 1.1 g/cm3 |
| Relative vapor density: | no data |
| Particle characteristics: | no data available |

SECTION 10: Stability and reactivity

10.1. Reactivity

When mixed with water, the product hardens into a stable mass that is not reactive.

10.2. Chemical stability

Product stable under normal conditions of use, storage and transportation.

10.3. Potential for hazardous reactions

The product mixed with water will concentrate to form a stable structure that does not react with the environment under normal conditions. The mortar does not cause dangerous reactions. The cement contained in the mixture dissolves in acid hydrogen fluoride producing caustic gas-tetra silicon fluoride. Cement reacts with water to form silicates and calcium hydroxide. Silicates in cement react with strong oxidants such as fluorine, boron trifluoride, magnesium trifluoride and oxygen difluoride.

10.4. Conditions to avoid

Protect from moisture. Moisture during storage can cause caking and a decrease in product quality. Avoid elevated temperatures, direct sunlight.

10.5. Incompatible materials

They are not known.

10.6. Hazardous decomposition products

They are not known.

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No. 1272/2008

Acute toxicity No data available

Irritating effect

Risk of serious eye damage, irritating to respiratory tract and skin

Corrosive effect

Does not exhibit

Respiratory or skin sensitization The product may cause an allergic skin reaction. Mutagenic effect on germ cells

Based on available data, the classification criteria are not met.

Carcinogenic effect

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met. Toxic effects on target organs - single exposure May cause respiratory irritation.

Toxic effects on target organs - repeated exposure Based on available data, the classification criteria are not met. Aspiration hazard Based on available data, the classification criteria are not met.

Information on likely routes of exposure

Respiratory system. Inhalation of concentrated vapors and dusts of the product causes irritation of the mucous membranes of the nose, throat and further sections of the respiratory system.

Gastrointestinal tract. Ingestion causes irritation of the mucous membranes of the mouth, tongue, throat, esophagus and lower gastrointestinal tract, symptoms of food poisoning may occur, abdominal pain and nausea, vomiting.

Eye contact. Poses a risk of serious eye damage.

Skin contact. Causes irritation. May cause sensitization by skin contact.

Symptoms related to physical, chemical and toxicological properties No data available.

Delayed, immediate and chronic effects of short- and long-term exposure No data available.

11.2. Information on other risks

No data available

SECTION 12: Ecological information

Detailed studies have not been conducted, so no further data are available. The mixture does not contain components classified as hazardous to the environment. Do not allow the product to enter and spread in the soil, sewage system, groundwater and watercourses.

12.1. Toxicity

No data available.

12.2. Persistence and degradability

Not biodegradable, most of the components of the mixture are mineral compounds....

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

The product will not be mobile in the soil after binding with water and hardening.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Endocrine disrupting properties

No data available

12.7. Other harmful effects

Introducing large amounts of the product into the water may increase the pH and thus show toxic properties under certain circumstances.

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SECTION 13:Waste treatment

13.1. Waste disposal methods

Product recommendations

Collect dry product in a container (do not use aluminum containers), recover or dispose of in accordance with applicable national regulations. Semi-liquid product: allow to set, avoid discharge to Sewerage systems, drainage systems, as well as reservoirs and watercourses. Semi-liquid product has a strongly alkaline reaction (high pH). Solid waste and hardened product can be treated as construction debris. Export to disposal sites by arrangement with the competent authority. The holder of waste is obliged by law in first to be recycled, and if this is not possible, this waste should be disposed of in accordance with applicable national regulations.

Recommendations for used packaging

Treat product packaging as household waste. Carry out recovery, recycling or disposal of packaging waste generated in the professional area in accordance with the applicable regulations. The waste code should be selected by the user depending on the end use of the product.

Proposed waste codes

| | |
|-------------|--|
| 15 01 0 1 : | Packaging materials |
| 10 13 82: | Waste from the manufacture of mineral binders - Broken down products |

SECTION 14:Transport information

14.1. UN number or ID number

Not applicable, the product is not dangerous during transportation.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Threats to the environment

Not applicable.

14.6. Special precautions for users

Not applicable.

14.7. Maritime transport in bulk in accordance with IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific to the substance or mixture

Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws 2020.2289, as amended). Ordinance of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws 2018, item 1286, as amended).

Regulation (EC) 1907/2006 of the European Parliament and of the Council of 18 December 2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), creation of the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94, as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (corrected by OJ L 136, 29.5.2007, as amended)

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Commission Regulation (EU) 2015/830 of May 28, 2015 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of December 16, 2008 on the classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No. 1907/2006 (Official Journal of the EU L No. 353 dated 31.12.2008, as amended)

Regulation (EU) 2016/425 of the European Parliament and of the Council of March 9, 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

Ordinance of the Minister of Health of April 20, 2012 on the labeling of packages of hazardous substances and mixtures and certain mixtures (Journal of Laws 2012 No. 0 item 445; Journal of Laws 2014 No. 0 item 145).

Regulation of the Minister of Health of August 10, 2012 on the criteria and method of classification of chemical substances and their mixtures (Journal of Laws 2012 No. 0 item 1018; Journal of Laws 2014 No. 0 item 6).

Ordinance of the Minister of Health of February 2, 2011 on tests and measurements of factors harmful to health in the work environment (Journal of Laws 2011 No. 33 item 166, Journal of Laws 2019 item 1995).

Ordinance of the Minister of Health and Social Welfare of May 30, 1996 on the conduct of medical examinations of employees, the scope of preventive health care and medical certificates issued for purposes provided for in the Labor Code (consolidated text Dz.U. 2016 No. 0 item 2067)

Ordinance of the Minister of Labor and Social Policy of September 26, 1997 on general regulations

The Ministry of Health and Safety at Work (consolidated text Dz.U. 2003. No. 169, item 1650; of 2007. No. 49, item 330; of 2008. No. 108, item 690; of 2011. No. 173 item 1034)

Ordinance of the Minister of Health of December 30, 2004 on health and safety at work related to the presence of chemical agents in the workplace (Journal of Laws of 2005. No. 11, item 86; of 2008. No. 203, item 1275, OJ. 2015 item 1097)

Law of August 24, 1991 on fire protection (consolidated text Dz.U. 2019 pos. 1372, Dz.U. 2019 pos. 1518, Dz.U. 2019 item 1593)

Law of August 19, 2011 on the transportation of dangerous goods (consolidated text Dz.U. 2020 item 154) Annex XIV/candidate list of SVHC substances: not applicable

15.2. Chemical safety assessment

A chemical safety assessment has not been conducted.

SECTION 16: Other information

Full text of H-phrases from section 3 of the card

H301 Toxic to eyes

H302 Harmful if swallowed

H310 Danger of death by skin contact

H311 Toxic in contact with skin

H314 Causes severe skin burns and eye damage

H315 Displays a skin irritant.

H317 May cause an allergic skin reaction

H318

Causes serious eye damage

H319 Effects on eye irritation

H331 Toxic effects by inhalation

H335 May cause respiratory irritation

H400 Severely toxic to aquatic organisms

H410 Severely toxic to aquatic life with long-lasting effects

Explanation of abbreviations and acronyms

Acute Tox. 3 Acute Toxicity Cat.3

Acute Tox. 4 Acute Toxicity Cat.4

Eye Dam. 1 Serious eye damage, category 1 Skin Corr.

1A Skin corrosion cat. 1A

Skin Corr. 1B Corrosive to skin Cat. 1B

Skin Irrit. 2 Dermal irritant, Cat. 2

Skin Sens. 1B Dermal sensitization category 1B

STOT SE 3D Toxic effects on target organs - single exposure, Cat 3.

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[Prepared in accordance with EC Regulation 1907/2006(REACH), as amended].

| | | | | | |
|-----------------------|--|-------------------|---|-------------------|--|
| Aquatic Acute 1 | Hazardous to the aquatic environment Cat 1 | Aquatic Chronic 1 | Hazardous to the aquatic environment Cat 1 | Aquatic Chronic 3 | Hazardous to the aquatic environment Cat 3 |
| REACH | Registration, Evaluation and Authorization of Chemicals (REACH Regulation) SDSSafety Data sheet | | | | |
| CAS number | Chemical Abstract Service number | | | | |
| PBT/T Persistent | , able to accumulate and toxic | | | | |
| EC number | vPvBB Very persistent and with very high accumulation capacity the number assigned to the chemical in the European List of Existing Substances of Significance Commercial (EINECS .European Inventory of Existing Chemical S u b s t a n c e s), or the number assigned to a substance in the European List of Notified Chemical Substances (ELINCS .European List. European List of Notified Chemical Substances), or the number in the list of chemicals listed in the publication No-longer polymers REACHRegulation for the Registration, Evaluation, Authorization and Restriction of Chemicals. | | | | |
| CMR substance/mixture | Carcinogenic, mutagenic, reproductive toxicant substance/mixture. ADRInternational convention on the carriage of dangerous goods and cargo by road. PACThe maximum permissible concentration in the working environment. | | | | |
| NDS/CH | Maximum allowable instantaneous concentration. | | | | |
| DSB | GHSGlobally Harmonized System of Classification and Labelling of Chemicals | | | | |
| PNEC | CLPRRegulation implementing the GHS system. | | | | |
| DNEL | Permissible concentration in biological material | | | | |
| LD50 | Predicted no-effect concentration | | | | |
| LC50 | No-effect level | | | | |
| LD50 | Lethal dose at which death is observed in 50% of test animals | | | | |
| LC50 | Lethal concentration at which death is observed in 50% of test animals | LOEC | Lowest concentration producing an observable effect | | |
| | NOELThe highest level at which no effects are observed | | | | |
| | NOECThe highest concentration at which no effects are observed | | | | |

Training

Before working with the product, it is mandatory to subject employees to safety training in connection with the presence of chemical agents in the work environment. Conduct, document and familiarize employees with the results of the risk assessment of the chemical agent workplace.

References to key literature and data sources

The safety data sheet was prepared on the basis of the safety data sheet provided by the manufacturer, literature data, Internet databases (e.g. ECHA, TOXNET, COSING) and the knowledge and experience possessed, taking into account the current legislation.

Procedures used to classify the mixture in accordance with Regulation W E 1272/2008, as amended.

The above information is based on currently available data characterizing the product and the experience and knowledge possessed by the manufacturer in this regard. They do not constitute a qualitative description of the product or a promise of specific properties. They should be regarded as an aid to safe handling in transportation, storage and use of the product. This does not relieve the user of responsibility for the misuse of the above information and for compliance with all legal standards applicable in this field.