

MATERIAL SAFETY DATA SHEET IsoTex R70

according to Regulation (EC) 1907/2006

created: 14.07.2020

revised: 11.05.2026

1. Name of the substance or mixture and the company**1.1. Product identifier**

Substance Name / Trade Name IsoTex R70

1.2. Relevant identification Use of the substance or mixture and uses that are discouraged

Relevant Identified Use: The plaster is intended for manual or mechanical application outside or inside buildings. The plaster is characterized by high adhesion to the substrate, easy processing, reduced surface absorption and extended processing time. Frost-resistant, weather-resistant, the plaster has a long service life and low absorbency.

Recommended Restriction of use:

Details of the supplier providing the safety data sheet**Manufacturer / Supplier**

Company: Made in the EU for SICC Coatings GmbH

Phone: +421903805121

Fax: +49(0) 30 / 500 196-20

Email address: info@climatecoating.sk

Responsible/issuing person: Application Technology / Research and Development

1.3. Emergency number

Information Centre for Toxicology, Na bojišti 1, 128 08 Prague 2
Phone: +420 224 919 293, 224 915 402

2. Possible dangers**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) 1272/2008

Skin irritation, category 2: H318 Causes severe eye damage.

Skin sensitization, category 1B: H317 May cause allergic skin reactions.

Specific target organ toxicity – single exposure, Category 3: H335 May irritate the respiratory tract.

2.2. Marking elements

Marking elements according to Regulation (EC) No. 1272/2008

Hazard symbol:

**Signal word:**

Danger

Hazard warnings:

H315 Irritates the skin.

H318 Causes severe eye damage.

H335 May irritate the respiratory tract.

Safety note:

P101 If medical attention is required, have the container or manufacturer's label ready.

P102 Keep out of reach of children.

P261 Avoid inhalation of dust.

P280 Use protective gloves/protective clothing/goggles/face shield.

P305+P351+P338: IN CASE OF CONTACT WITH EYES: Rinse gently with water for a few minutes. If worn, remove contact lenses and remove them if possible.

Keep rinsing.

P310: Call a POISON CENTER or doctor immediately.

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P302+P352: IN CONTACT WITH SKIN: Wash with plenty of soap and water. For skin irritation or rash

P333+P313: Seek medical advice.

P304+P340: INHALE: Move the person to fresh air and hold it in a position that makes it easier to breathe.

P312 If you feel unwell, call a POISON CENTER or a doctor.

P501 Dispose of contents/packaging at a collection point designated in accordance with local regulations.

Hazardous ingredients: Portland cement, calcium hydroxide.

Additional Information: The wet mixture can damage products made of aluminum and other base metals.

Additional hazard statements: not applicable

Solid warning for the blind: No

Childproof closure: no

Other marking elements:

not applicable

2.3. Other hazards

Repeated contact, especially of a moist preparation with unprotected skin, can lead to skin irritation (irritant contact dermatitis) and in some people it can lead to allergic contact dermatitis.

After mixing with water, a strongly alkaline mixture is formed, which can attack aluminium or harm aquatic organisms or plants at high pH values. The mixture does not meet the criteria for PBT or vPvB according to Annex XIII of EU Regulation 1907/2006.

3. Composition / information on the ingredients

3.1. **Substances** The product is a mixture

3.2. Mixtures

The product contains the following hazardous substances:

Chemical Name:

Name: Portland Cement

CAS Number: 65997-15-1

EC number (EINECS): 266-043-4

Index number:

Registration number:

Content in %: 25 - 30 %

Classification according to Directive 1999/45/EC

Hazard symbol, R-phrases

Classification according to Regulation (EC) 1272/2008: Class code and hazard category H-phrase

irritating, Xi

R37/38-41,

sensitizing, R43

Skin irritation. 2, H315

Eye Dam 1, H318

STOT SE 3, H335

Chemical Name: Calcium Hydroxide

Name:

CAS Number: 1305-62-0

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EC number (EINECS): 215-137-3

Index number:

Registration number:

Content in %: 15 - 20 %

Classification according to Directive 1999/45/EC

Hazard symbol, R-phrases

Classification according to Regulation (EC) 1272/2008: Class code and hazard category H-phrase

irritating, Xi, R37/38-41

sensitizing, R43

Skin irritation. 2, H315

Eye Dam 1, H318

STOT SE 3, H335

The full text of the R and H phrases can be found in Section 16.

4. First aid measures

4.1. Description of the first aid measure

General information

Immediate medical treatment is usually not necessary. If health problems occur after handling the preparation, seek medical help in case of doubt or persistent symptoms and show this card or label. It is always important to ensure that the affected person remains calm and does not catch a cold.

If unconscious, put the affected person in a stable side position, tilt the head slightly, and under no circumstances administer anything (liquids) through the mouth. First responders do not need personal protective equipment, but should avoid contact with the wet mixture. Tell the doctor about first aid.

After inhalation

Interrupt the exposure and bring the victim out into the fresh air. The dust from the throat and nasal cavities should disappear on its own. If irritation or nausea, cough, or other persistent symptoms persist or develop later, seek medical attention.

After skin contact

Remove contaminated clothing and shoes. When the mixture is dry, remove it from the skin and rinse with plenty of water. With a damp mixture, wash the skin with plenty of water. If skin irritation or burning occurs, seek medical attention.

After eye contact

Do not rub your eyes so as not to damage the cornea through mechanical damage. If you wear contact lenses, remove them. Tilt the head to the side of the affected eye, open the eyelids wide, and immediately rinse the eye(s) thoroughly with plenty of water for at least 30 minutes to remove all particles. Avoid getting into the affected eye. If possible, use isotonic water (0.9% NaCl). Consult an occupational disease specialist or an ophthalmologist.

After swallowing

Do not induce vomiting, rinse mouth with water, give plenty of water to drink. See a doctor or contact the Toxicology Information Center.

4.2. Main acute and delayed symptoms and effects

Symptoms:

(Effects to be expected based on the composition of the mixture)

Skin contact: The cement mixture can be irritating to the skin if it comes into contact for a long time (on damp skin, e.g. when sweating or wetting the skin) or can cause skin dermatitis if it comes into contact with it repeatedly. Prolonged contact of the skin with the moist mixture can lead to severe burns (etchings), which are initially painless.

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Risks:

Eye contact: Eye contact with the cement mixture can cause serious and possibly irreversible eye damage.

Inhalation: Long-term or repeated inhalation increases the risk of developing lung disease.

4.3. Indications of immediate medical assistance or special treatment

Treatment:

Take the safety sheet with you to the doctor's visit.

5. Firefighting measures

5.1. Extinguishing agent

Suitable:

The product is non-flammable. To extinguish ambient fires, choose an extinguishing agent that is considerate of the environment.

Unsuitable for safety reasons:

Water jet

5.2. Special hazards posed by the mixture

They are not known. The mixture is non-flammable or explosive and does not promote the combustion of other materials.

5.3. Instructions for firefighting

Use self-contained breathing apparatus and usually fire extinguishing equipment (avoid contact with skin and eyes). Prevent the escape of extinguishing water or extinguishing mixture into the sewer system and water.

6. Measures in the event of accidental release

Personal precautions, protective equipment and procedures to be used in emergencies

Prevent people who are not involved in cleaning up the consequences of the spill from moving to places where they could be contaminated by the spilled product. Provide draught-free ventilation inside buildings. When cleaning, choose methods that do not increase the formation of dust aerosols (see section 6.3). With wet methods, an uncleaned floor or substrate can become slippery. Use the recommended personal protective equipment at work (see section 8).

6.1. Environmental protection measures

Prevent leakage and spread of spills. Keep the material as dry as possible. If possible, cover the area to avoid unnecessary dust hazards. Prevent uncontrolled penetration into water bodies and sewers (pH rise). Any major release into waterways must be reported to the Environment Agency or another competent authority.

6.2. Methods and material for retention and purification

Mechanically collect the spilled dry material and reuse it if it is not contaminated. Use chemical cleaning methods such as vacuuming or vacuuming (with air filters). Do not use compressed air.

It is also possible to perform wet cleaning (water spraying or mist), prevent dust from rising, wipe off the dust and remove the resulting mud. Remove the wet mixture in the same way. Allow the sludge to solidify and remove it according to Section 13.

6.3. Reference to other sections

For information on personal protective equipment, please refer to Section 8.

For information on waste disposal, please refer to Section 13.

7. Measures in the event of accidental release

7.1. Protective measures for safe handling

Notes on safe handling:

Read the instructions for use. Do not inhale dust when handling the dry mixture, work in well-ventilated areas, use protective equipment to prevent dust inhalation (see section 8). Avoid contact with eyes and skin when working with dry or wet mixture by using personal protective equipment (see section 8). Keep work tools clean where they come into contact with your hands. If workwear and protective equipment are so

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Measures to protect against fire and explosions:	heavily soiled that the mixture penetrates under the surface of the skin or moisture penetrates the inside of the protective equipment or workwear, replace it with clean and dry equipment as soon as possible. Do not eat, drink or smoke at work, observe general safety and hygiene measures when handling chemicals. none
7.2. Conditions for safe storage taking into account environmental compatibility	
Information on storage conditions:	Store in the sealed original packaging, in a dry place, away from moisture, separate from food, beverages and feed. A possible freezing of the product does not affect its functionality. Keep out of reach of children.
Requirements for storage rooms and containers:	dry
Storage class:	13
7.3. Specific End Applications	none named

8. Limitation and monitoring of exposure / Personal protective equipment

8.1. Parameters to monitor

Occupational exposure limits and/or biological limits

Occupational exposure limits (OEL) Germany

The mixture contains substances for which the following maximum permissible concentrations in the working atmosphere are specified in the Slovak Republic in accordance with Government Decree No. 1. 361/2007 ECR, as amended.

Chemical Name CAS Number PELc (mg/m³)

NPK-P Note

Portland Cement 65997-15-1 10 - -

Calcium Hydroxide 1305-62-0 2 4 -

8.2. Limiting and monitoring exposure

To limit exposure, dust formation must be prevented. In addition, suitable protective equipment is recommended. Eye protection (e.g. safety goggles or face protection) must be used if the type and method of use cannot exclude possible contact with the eyes (e.g. closed process), other face protection, protective clothing and safety shoes. Ensure that the workplace is adequately ventilated. or ventilation. If this is not possible, use personal protective equipment for respiratory protection. The handling of dry mixtures and the cleaning of the workplace must be ensured by techniques that do not increase the concentration of dust in the working atmosphere. When working with dry mixtures outside of construction facilities, it is necessary for the worker to move in the opposite direction of the wind flow from the point of exit of the dust particles into the air in the wind. In the event that there is a possibility of eye contact when handling the product, it is recommended to provide a water source within reach for a quick eyewash.

Personal protective equipment:

Eye/Face Protection:

If a full-face protective mask is not used when working with the dry mixture, dense safety glasses should be worn to prevent dust particles from getting into the eyes. It is also necessary to wear safety goggles when handling wet mortar or glue, where there is a risk of material splashes. Especially when throwing or applying mortar above head height.

Skin protection:

Since both dry and moist mixtures irritate the skin, exposure should be minimized as much as technically possible. The work requires the

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Respiratory protection:

wearing of protective gloves, commercially available full-skin protective clothing with tight-fitting sleeves and trousers that prevent dust from entering, and the wearing of alkali-resistant and dust-resistant shoes. When opening the package with the dry mixture, when pouring out of the package or when transferring the dry mixture to work containers, and at the initial stage, when mixing water is added to the dry mixture, it is necessary to wear a mask or respirator with a dust filter with a protection factor of at least 10.

9. Physical and chemical properties

9.1. Information on the basic physical and chemical properties

Physical state:	loose solid, powder
Color:	Grey to cream
Smell:	odorless
Odour threshold:	not known
Vapor pressure:	not known
pH value:	not known
Melting point/freezing point:	not known
Start of boiling:	not known
Flash Point:	not known
Evaporation speed:	not known
Flammability:	not known
Upper explosion limit:	not known
Lower Explosion Limit:	not known
Oxidizing properties:	not known
Density:	not known
Vapor density (20 °C):	not known
Self-ignition temperature:	not known
Distribution coefficient n-octanol/water:	not known
Decomposition Temperature:	not known
Explosive properties:	not known
Viscosity:	not known
Solid content:	not known
Fineness:	not known

9.2. Other information

10. Stability and reactivity

10.1. Reactivity

When mixed with water, a strongly alkaline mixture is formed, which gradually hardens. After the whole mixture has hardened, a stable mass is formed.

10.2. Chemical stability

Under normal use, the product is stable as long as it is stored and handled in accordance with the regulations. Protect the mixture from the effects of water and humidity. There is no decomposition. Keep the product dry. Contact with incompatible materials must be ruled out. The wet mixture is alkaline/alkaline and reacts with acids, ammonium salts, aluminum or other base metals. Portland cement dissolves in hydrofluoric acid and forms corrosive silicon tetrafluoride gas. Portland cements react with water to form silicates and calcium hydroxide.

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Silicates in cements react with strong oxidizing agents such as fluorine, boron fluoride, chlorofluoride, manganese fluoride, and oxygen difluoride.

10.3. Possibility of dangerous reactions

The uncontrolled use of aluminium powder should be avoided, as hydrogen is produced/developed during the reaction with cement and calcium hydroxide. Calcium hydroxide reacts exothermically with acids. After heating above 580 °C, calcium hydroxide decomposes to form calcium oxide (CaO) and water (H₂O): $\text{Ca(OH)}_2 \rightarrow \text{CaO} + \text{H}_2\text{O}$. Calcium oxide reacts with water to produce heat. This can be dangerous for flammable materials.

10.4. Conditions to avoid

Avoid exposure to air and moisture during storage, as this can lead to a loss of product quality (caking).

10.5. Incompatible materials

acids, ammonium salts, aluminum or other base metals.

10.6. Dangerous decomposition products

Dispose of

11. Toxicological information

11.1. Information on toxicological effects

a) Acute toxicity

Due to the properties of the individual components, the mixture does not meet this classification

b) Corrosive effect on the skin

Based on the properties of the individual components, the mixture was classified as follows:

Severe eye damage, category 1 – eye damage. 1 (H318)

Skin irritation, category 2 – skin irritation. 2 (H315)

c) Severe eye damage/irritation

not intended for the mixture; Due to the properties of the individual components, the mixture does not meet this classification

d) Sensitization of the respiratory tract/skin

not intended for the mixture; Due to the properties of the individual components, the mixture does not meet this classification

e) Germ cell mutagenicity

not intended for the mixture; Due to the properties of the individual components, the mixture does not meet this classification

f) Carcinogenicity

not intended for the mixture; Due to the properties of the individual components, the mixture does not meet this classification

(g) Reproductive toxicity

not intended for the mixture; Due to the properties of the individual components, the mixture does not meet this classification

(h) Specific target organ toxicity with repeated exposure

not intended for the mixture; Due to the properties of the individual components, the mixture does not meet this classification

(i) Specific target organ toxicity for single exposure

Based on the properties of each component, the mixture was classified as follows:

Specific target organ toxicity – single exposure, respiratory irritation – STOT SE 3 (H335)

(j) Risk of aspiration

not intended for the mixture; Due to the properties of the individual components, the mixture does not meet this classification

k) Endocrine disruption affecting human health

not intended for the mixture; Due to the properties of the individual components, the mixture does not meet this classification

12. Environmental Claims

12.1. Toxicity

not determined for the mixture, not to be expected due to the nature of the individual components

Calcium Hydroxide, CAS 1305-62-0

LC50 (96h) for freshwater fish: 50.6 mg/l

LC50 (96h) for marine fish: 457 mg/l

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EC50 (48h) for freshwater invertebrates: 49.1 mg/l
LC50 (96h) for marine invertebrates: 158 mg/l
EC50 (72h) for freshwater algae: 184.57 mg/l
NOEC (72h) for algae: 48 mg/l
NOEC (14d) for marine invertebrates: 32 mg/l
EC10/LC10 or NOEC for soil microorganisms: 2000 mg/kg dry soil
EC10/LC10 or NOEC for soil microorganisms: 12000 mg/kg dry soil
NOEC (21d) for land plants: 1080 mg/kg

In high concentrations, calcium hydroxide is used to disinfect waste sludge by increasing the temperature and pH.

Acute effect due to pH change – although calcium hydroxide is used to adjust the acidity of water, the content can be increased by more than 1 g/l, dangerous for aquatic life. A pH > 12 decreases rapidly due to dilution and conversion to carbonate.

12.2. Persistence and degradability

not intended for the mixture, not to be expected due to the nature of the individual components

12.3. Bioaccumulation potential

not determined for the mixture, not to be expected due to the nature of the individual components

12.4. Mobility in the ground

not intended for the mixture, not to be expected due to the nature of the individual components; After the product has hardened with water, a stable solid product is created. Calcium hydroxide itself is hardly soluble in water and has low mobility in most soils. It is used, among other things, as a fertilizer.

12.5. Result of the PTB and vPvB assessment

Contains no PBT or vPvB substances

12.6. Endocrine-disrupting properties

No data available

12.7. Other harmful effects

No data available

13. Note on disposal

13.1. Waste treatment process

Suitable methods for disposing of the mixture and contaminated packaging. Both the mixture (leftovers) and the empty packaging must be disposed of or handed over for disposal as hazardous waste in a place designated by the municipality for the disposal of hazardous waste, in accordance with the legislation in force by a professionally qualified company. Waste must be secured against leakage into the environment. The use of personal protective equipment is recommended when handling waste (see 8.2).

Dust: 10 13 06 Solid pollutants and dust (except waste of numbers 10 13 12 and 10 13 13)

Unused product:

10 13 11 Cementitious composite wastes other than those covered by 10 13 09 and 10 13 10

10 13 14 Waste concrete and concrete sludge

Product after mixing with water (and curing): 17 01 01 Concrete

Packaging: depending on the type of packaging Packaging group 15 01 xx (mainly 15 01 01 to 15 01 03)

Treatment of contaminated packaging

Act No. 477/2001 Coll., on Packaging, as amended from time to time

Waste code in accordance with the Waste Directory Ordinance (AVV)

14. Transport details

14.1. UN number

not applicable

14.2. Proper UN shipping designation

ADR/RID

not applicable

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IMDG code / ICAO-TI / IATA-DGR

not applicable

14.3. Transport hazard class

not applicable

14.4. Packaging group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for the user

not applicable

14.7. Bulk cargo transport in accordance with Annex II of the MARPOL Convention and in accordance with the IBC Code

not applicable

15. Legislation

15.1. Safety, health and environmental protection rules / specific legislation for the substance or mixture

EU regulations

Regulation of the EP and of the Council (EC) No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended; Regulation of the European Parliament and of the Council (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), as amended;

Directive 67/548/EEC on the approximation of laws relating to the classification, packaging and labelling of dangerous substances (DSD);

Directive 1999/45/EC on the approximation of the laws, regulations and administrative measures of the Member States concerning the classification, packaging and labelling of dangerous preparations as amended (DPD);

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

National regulations

Act No. 258/2000 Coll. To protect public health, as amended;

Act 262/2006 Coll., Labour Code, as amended;

Government Decree No. 361/2007 Coll., Determining the Conditions for the Protection of the Health of Workers at the Workplace, as amended; 201/2012 Coll. on air protection and its implementing provisions;

Act No. 185/2001 Coll. on Waste, as amended, and its implementing regulations;

Act No. 477/2001 Coll. on the packaging as amended.

15.2. Chemical safety assessment

Regulation of the EP and of the Council (EC) No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended; Regulation of the European Parliament and of the Council (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), as amended;

Directive 67/548/EEC on the approximation of laws relating to the classification, packaging and labelling of dangerous substances (DSD);

Directive 1999/45/EC on the approximation of the laws, regulations and administrative measures of the Member States concerning the classification, packaging and labelling of dangerous preparations as amended (DPD);

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

16. Other information

Changes from the last version

Replaces datasheet from: 14.07.2024

References and data sources

REACH Regulation (EC) No. 1907/2006, last amended by Regulation (EU) 2017/1000

CLP Regulation (EC) No 1272/2008, as last amended by Regulation (EU) 2017/776

Internet

<http://www.baua.de>

<http://publikationen.dguv.de>

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<http://dguv.de/ifa/stoffdatenbank>

<http://www.gischem.de>

<http://echa.europa.eu/en/candidate-list-table>

methods referred to in Article 9 of Regulation (EC) No 1272/2008 have been used to assess the information for the purpose of classification.

The hazard properties of the product were assessed in accordance with Annex I of Regulation (EC) No. 1272/2008 (CLP Regulation).

Text of the hazard statements and/or safety statements referred to in Section 2

R-phrase:

R 20/22: Harmful by inhalation and ingestion

R 36: Irritates the eyes

R 37: Irritates the respiratory tract

R 38 Irritates the skin

R 41: Risk of serious eye damage

R 43 Sensitisation possible through skin contact

H-phrase:

H315 Irritates the skin.

H317 May cause allergic skin reactions.

H318 Causes severe eye damage.

H335 May irritate the respiratory tract.

P-phrase:

P101 If medical attention is required, have the manufacturer's container or label ready.

P102 Keep out of reach of children.

P261 Avoid inhalation of dust.

P280 Wear protective gloves / protective clothing / goggles / face shield.

P305 + P351 + P338: IN CASE OF CONTACT WITH EYES: Rinse gently with water for a few minutes. If worn, remove contact lenses and remove them if possible. Keep rinsing.

P310: Call a POISON CENTER or doctor immediately.

P302 + P352: IN CONTACT WITH SKIN: Wash with plenty of soap and water. For skin irritation or rash

P333 + P313: Seek medical advice.

P304 + P340: ON INHALATION: Move the person to the fresh air and hold it in a position that makes it easier to breathe.

P312 If you feel unwell, call a POISON CENTER or a doctor.

P501 Dispose of contents/packaging at a designated collection point in accordance with local regulations.

Data display area:

Application Technology Phone +49 (0) 30/500196-0

Learn more

Disclaimer of liability: We have obtained the information contained in this SDS from sources that we believe to be reliable. The accuracy of the information, in printed form, is not guaranteed. The conditions or methods of handling, storing, using or disposing of the product are beyond our control, and may also be outside our information area. For these and other reasons, we take no responsibility and expressly disclaim liability for any loss, damage or expense that may arise from or in any way connected with the handling, storage, use or disposal of the product. This SDS has been prepared for this product and may only be used with it.

This information describes only the safety requirements of the product(s) and is based on the current state of our knowledge. They do not constitute an assurance of the properties of the described product(s) within the meaning of the statutory warranty provisions. Characteristics of the product can be found in the respective product leaflets.

Commodity Code/Customs Tariff Number:

68069000