

Product name: Multisan**1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY**

Official product name: thermal insulating and rehabilitation mortar
Product application: Redevelopment mortar
Company: SATSYS Technology a.s.
Address: Vejdovského 1179/6a, 779 00 Olomouc
Registration number: 27818624
Telephone: +420 585 203 756
Responsible person: Petr Sadlek, Chairman of the board
Emergency: Toxicological Information Centre, Na bojišti 1, 128 08 Praha 2
Non-stop service 224 91 54 02 or 224 91 92 93

2. HAZARDS IDENTIFICATION

Classification of the product according to the guideline 67/548/EEC and 1999/45/EC:

- The product is not classified as dangerous

3. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical characteristics:** Insulating mortar on cement base

Ingredient	Identification	classification	Content %
Portland cement	CAS: 65997-15-1 EC: 266-043-4	R 38 – R 41	< 20
Calcium hydroxide	CAS: 1305-62-0 EC: 215-137-3	Xi; R 37/38-41	< 10

4. FIRST AID MEASURES

General instruction: In case of contact remove the contaminated clothing. If any health troubles occur or in case of doubts call the doctor and provide him with information from the Safety Data Sheet.

In case you inhale dust: Provide fresh air and calm environment for the affected person. Wash the face with water properly. Flush your mouth with water. In case of breathing problems call an ambulance.

Skin contact: Wipe the dust off, wash your skin with soap and water. If skin is affected by the product mixed with water removed the contaminated piece of clothes and the process is very similar to the previous case with dust. In case of allergic reaction avoid any other contact with the product and seek medical advice.

Eye contact: Remove contact lenses if worn. In case of contact, immediately flush eyes with plenty of clean running water for at least 15 minutes, lifting the upper and lower eyelids occasionally. Obtain medical attention.

Ingestion: Do not induce vomiting. Contaminated person should flush the mouth with water and drink plenty of water (a glass of water). Call for medical help.

5. FIRE FIGHTING MEASURES

Suitable fire-extinguisher: Under normal conditions non-flammable. Fire protection arrangements should be set according to the environment. Use a respirator with unlimited flow of air in case of emergency.

6. ACCIDENTAL RELEASE MEASURES

Protection arrangements: Minimize the dustiness during the manipulation with the material. Use personal protective equipment act upon the instruction given in sections 7 and 8. Do not inhale the dust. Avoid the contact with skin. After mixing with water use personal protective equipment (especially gloves), act upon the instructions give in sections 7 and 8. Avoid the contact with eyes.

Environmental precautions: After mixing with water avoid the water leakage.

Methods of cleaning up: sweep out or vacuum (with the suitable vacuum-cleaner) the spilled product in a dusty form. Put this material into designated bins and dispose it according to the instructions give in section 13. Scrape off the material mixed with water. Dispose it as a building waste after hardening – see section 13.

7. HANDLING AND STORAGE

Manipulation: Minimize dustiness during the manipulation with the material. Avoid the skin and eye contact. Do not inhale dust. Use personal protective equipment according to section 8. After you finish working with the material wash your hands and face.

Storage: Store the product in dry, indoor and clean storages. Protect from moisture. There are no special requirements for mutual storing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient	Identification	PELs ¹ (mg/m ³)
Cement ²	CAS: 65997-15-1	10

General instructions: Use personal protective equipment according to the guideline 89/686/EEC and Government order No. 21/2003 Coll.

Hygienic instructions: Ventilate the room or ensure the fresh-air distribution by any other technical means so that the PELs conditions were not disobeyed in other case use respiratory protective equipment.
Do not eat, drink or smoke during the work process. Wash your hands, eventually your face after you finish work.

It is necessary to keep protective equipment in a good running condition. If they are damaged – it is obligatory to replace them immediately. Skin may become sensitive when in contact with the product.

We do not recommend people who are allergic to working with this product.

Respiratory protection: If the concentration of substances in the air exceed the set limit or recommend PELs is obligatory to use respirator with filter protecting against solid particles.

Hand protection: Protective gloves (suitable material: Nitril), material thickness at least 0.8 mm. You should eventually use cotton gloves beneath the protective gloves.

Eye protection: Protective dust-proof glasses

Skin protection: Light weight work clothes, closed footwear.

Environment protection: The product contains components, which are posing a risk for environment (see section 13).

9. PHYSICAL AND CHEMICAL PROPERTIES

State (at 20°C):	solid – dust
Color:	grey
Smell:	without smell
Boiling temperature:	inapplicable
Flash point (°C):	unavailable
Bulk weight (at 20°C):	400 kg/m ³ ± 10%
pH factor:	≤ 10 (1% water solution)
Solubility in water:	insoluble
Steam pressure (at 50°C):	unavailable

10. STABILITY AND REACTIVITY

Conditions to avoid: Dampness. The substance is stable if all recommended instructions for storage, manipulation and application are obeyed.

Material to avoid: Uncontrolled contact of the product with water. After adding water or under the influence of dampness, alkaline reaction with development of heat may occur.

Hazardous decomposition products: Unknown.

11. TOXICOLOGICAL INFORMATION

Health hazard summary: The dust irritates eyes, skin and if you inhale it, it may irritate the respiratory organs as well. The substance is irritating for eyes and skin even if water is added.

Eyes: If eyes are infected they might be harmed.

Skin: If there is a contact with skin there is a danger of skin irritation and mucosa. Contact with skin might cause skin sensitization.

12. ECOLOGICAL INFORMATION

General instruction: The product does not contain any components which are classified as dangerous for environment. During an unintended leakage to environment or mixing with water there can occur some undesirable effects and reactions which will result in higher pH factor of the incurred mixture.

Toxicity: Harmful for aquatic organisms, it can evoke long-term adverse reaction in an aquatic environment.

13. DISPOSAL CONSIDERATIONS

Waste disposal: Put the devaluated material into designated containers and destroy them the same way as other waste on dedicated dumps. Prevent from spreading the material into air.
Substance mixed with water – after hardening – put it into designated containers and destroy them the same way as other waste on dedicated dumps in accordance with relevant local legislation.
Packaging with the rest of the material is necessary to destroy same as the material itself.

Waste classification: According to *European catalogue of waste and relevant local legislation.

*code	name
10 13 11	Wastes from cement-based composite materials other than those mentioned on 10 13 09 or 10 13 10
17 09 04	Construction and demolition waste other than those mentioned on 17 09 01 or 17 09 02 or 17 09 03
15 01 10	Containers – paper (contaminated)

Packaging disposal: Empty bags can be recycled after cleaning. Dry paper packages can be burnt and ashes should be stored to a dedicated dump.

14. TRANSPORT INFORMATION

Land transport (ADR/RID): The product is not dangerous for road/railway transport.

Air transport (ICAO/IATA): The product is not dangerous for air transport.

Sea transport (IMDG/IMO): The product is not dangerous for sea transport.

15. REGULATORY INFORMATION

Information regarding health protection, environmental safety and protection which have to be written on a label:

Dangerous component: Portland cement CAS 65997-15-1

Warning symbol of danger:



Xi irritant

³R-phrases:

R 38 it irritates skin
R 41 danger of serious damage of your eyes

⁴S-phrases:

S 2 keep out of reach of children
S 22 do not inhale dust
S 24/25 avoid eye and skin contact
S 26 in case that your eyes are contaminated flush them properly and call for medical advice
S 37/39 use suitable protective gloves and glasses or a face shield
S 46 in case of ingestion call for medical advice and show them this safety data sheet or label

Legal regulations EU:

Directive 67/548/EEC and 1999/45/EC – classification, packaging and labeling of dangerous substances

Regulation (EC) No 1907/2006 of the European Parliament and of the Council, concerning the registration, evaluation, authorisation and restriction of chemicals

Directive 2000/39/EC – indicative occupational exposure limit values

Directive 2006/15/EC – indicative occupational exposure limit values

Legal regulations CZ:

Government order No. 21/2003 Coll., that lays down the technical requirements for personal protective equipment

Act No. 356/2003 Coll., on chemical substances and preparations

MIT Decree No. 232/2004 Coll., implementing some of the provisions of the Act on chemical substances and chemical preparations, related to classification, packaging and labeling of dangerous chemical substances and chemical preparations.

Decree No. 383/2001 Coll., on details of waste management

16. OTHER INFORMATION

Information for air quality: The product does not contain any volatile organic compounds in accordance with the Decree No. 355/2002 Coll.

Watercourse protection: Water hazard class 1

This material safety data sheet was issued by the distributor and it is based on data given in the material safety data sheet issued by the technical department. Material safety data sheet contains data which are needed for ensuring the safety and health protection during the work and environment protection. Data which were stated here correspond to our contemporary knowledge and are in accordance with valid legal national rules and rules given by EU. They do not represent any reinsurance of products properties not conventional duty. The user is responsible for obeying all

obligatory arrangements for safe manipulation of the product and for using the product as it is recommended in section 1.

Date:	3. 3. 2014	By issuing this material safety data sheet the former one is not valid.
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¹ PELs – permissible exposure limits

² Dust with mostly non-specific effect

³ R-phrases – standard phrases which indicate specific risk

⁴ S-phrases – standard phrases for safe manipulation