

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Identification of the substance or preparation

Product name: Fire Protection Mortar PYRO-SAFE NOVASIT K2

Use of the substance/preparation

Recommended use: dry-mortar containing cement for mixing with water

Company identification

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Department: Central Technology

2. HAZARD IDENTIFICATION

Classification of the substance or mixture

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi, irritant

R37/38-41:

Irritating to respiratory system and skin. Risk of serious damage to eyes.

Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS05

GHS07

Signal word: Danger

Hazard-determining components of labelling:

Cement, portland, chemicals

calcium dihydroxide

Hazard statements

H315

Causes skin irritation.

H318

Causes serious eye damage.

H335

May cause respiratory irritation.

Precautionary statements

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P103

Read label before use.

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

P271

Use only outdoors or in a well-ventilated area.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352

IF ON SKIN: Wash with plenty of soap and water.

P304+P340

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER or doctor/physician.

P332+P313

If skin irritation occurs: Get medical advice/attention.

P362

Take off contaminated clothing and wash before reuse.

P403+P233

Store in a well-ventilated place. Keep container tightly closed.

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P405

Store locked up.

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

The hazard designation "irritant" does not apply to the dry powder; it applies only after the addition of moisture or water (alkaline reaction).

The preparation is low chromate (in accordance with TRGS 613/ Germany). For the chromate reduction to remain effective, the preparation must be stored properly and not be used after the expiration date (see Section 7.2).

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Mixtures

Description: Factory dry mortar of bonding agents and aggregats

Dangerous components:

CAS: 65997-15-1	Cement, portland, chemicals	10-25%
EINECS: 266-043-4	Xi R37/38-41 Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	
CAS: 1305-62-0	calcium dihydroxide	2.5-10%
EINECS: 215-137-3	Xi R37/38-41 Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	

Additional information: For the wording of the listed risk phrases refer to section 16.

4. FIRST AID MEASURES

Description of first aid measures

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

Information for doctor: If swallowed seek medical advice immediately and show the doctor packing or label.

Most important symptoms and effects, both acute and delayed: No further relevant information available.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents: Product does not burn, fire-extinguishing activities according to surrounding.

For safety reasons unsuitable extinguishing agents: Water with full jet

Special hazards arising from the substance or mixture: No further relevant information available.

Advice for firefighters

Protective equipment: No special measures required.

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

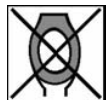
Avoid formation of dust.

To avoid skin and eye contact.

Ensure adequate ventilation

Do not breathe dust

Measures for environmental protection:



Do not allow product to reach sewage system or any water course.

Measures for cleaning/collecting:

Pick up mechanically.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling Prevent formation of dust.

Information about fire - and explosion protection: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Store only in unopened original receptacles.

Information about storage in one common storage facility: Do not store together with acids.

Further information about storage conditions: Always observe the manufacturer's instructions regarding storage conditions and shelf-life. If stored incorrectly (e.g. in moist conditions) or used after the expiration date, any chromate-reducing components present may lose their effectiveness, in which case sensitisation cannot be ruled out if the material comes into contact with the skin.

Storage class: VCI storage class: 13 · non-combustible solids.

Specific end use(s) No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

Control parameters

Ingredients with limit values that require monitoring at the workplace:

65997-15-1 Cement, portland, chemicals (10-25%)

WEL Long-term value: 10* 4** mg/m³

*inhalable dust **respirable dust

1305-62-0 calcium dihydroxide (2.5-10%)

WEL Long-term value: 5 mg/m³

Additional information: The lists valid during the making were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Do not inhale dust / smoke / mist.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Be sure to clean skin thoroughly after work and before breaks.

Use skin protection cream for skin protection

Respiratory protection:

Dust Mask

If the exposure threshold values are exceeded (which could happen when mixing, for example), wear an FFP1 (white) particle-filtering half-mask (see information sheet BGR 190).

Protection of hands:

Protective gloves

Material of gloves Nitrile rubber, NBR

Penetration time of glove material -

Eye protection:

Safety glasses

If dust is generated or if there is a danger of spray or splatter, wear tightly fitting protective goggles.

Body protection:

Protective work clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Form: solid powder

Colour: grey

Odour: odourless

Change in condition

Melting point / Melting range: not determined

Boiling point / Boiling range: not determined

Flash point: not applicable

Self-igniting: Product is not selfigniting

Danger of explosion: Product does not present an explosion hazard.

Density not determined

Solubility in/miscibility with

Water: slightly soluble

Organic solvents: 0.0%

Water: 0.0%

Solids content: 100.0%

10. STABILITY AND REACTIVITY

Reactivity**Chemical stability**

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Conditions to avoid No further relevant information available.

Incompatible materials: To avoid contact with acids.

Hazardous decomposition products: No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects**Acute toxicity:****Primary irritant effect:**

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization: As long as the use-by date is not exceeded a sensitizing effect is not to be expected.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

12. ECOLOGICAL INFORMATION

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Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation

Disposal according to official regulations.



Must not be disposed together with household garbage. Do not allow product to reach sewage system. Remove in accordance with local official regulations

Material mixed with water and let harden.

European waste catalogue

17 01 01 concrete

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

UN-Number

ADR, ADN, IMDG, IATA

Void

UN proper shipping name

ADR, ADN, IMDG, IATA

Void

Transport hazard class(es)

ADR

Class

Void

Label

Void

ADN/R Class:

Void

Packing group

ADR, IMDG, IATA

Void

Environmental hazards:

Not applicable.

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:

ADR

-

ADN

Item:

No hazardous material as defined by the prescriptions.

UN "Model Regulation":

-

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15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations: -

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.

Department issuing MSDS: Abteilung R&D

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

The information in this Safety Data Sheet are based on our today's knowledge. They shall describe our products with respect to safety aspects and do not guarantee on special properties. The different work conditions of the final user are out of our control. The product must not be transferred to any different use as named under section 1. The final user is responsible for compliance with all relevant official regulations.