

SECTION 1: Identification of the Substance/ Mixture and of the Company/Undertaking

1.1. Product identifier

Trade name **iPASSIVE EX Mortar**

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

Identified uses Fireproof gypsum based mortar

11.3 Details of the supplier of the material safety data sheet

Company iPASSIVE Fire, B:Hive Building,
Smales Farm, 74 Taharoto Rd,
Takapuna, Auckland 0622

Telephone +64 9 869 5150

E-mail info@passivefire.com

Website ipassivefire.com

1.4 Emergency telephone number

Acute cases: Call 09 869 5150, request poison information.

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification in accordance with 1272/2008

Skin Irritant (Category 2)

Irreversible Eye Effects (Category 1)

May cause an allergic skin reaction (Category 1)

2.2. Label elements

Label information in accordance with 1272/2008

Hazard pictograms:



Signal words: **Danger**

Hazard statements:

H315 Causes skin irritation

H317 May cause an allergic skin
reaction

H318 Causes serious eye damage.
Contains PORTLAND CEMENT

Precautionary statements:

P261 Avoid breathing dust.

P280 Wear protective gloves, protective
clothing and eye or face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

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 CENTRE or
doctor/physician.

2.3. Other hazards

Not relevant.

SECTION 3: Composition/Information on Ingredients

This product is composed of a mixture of several solid substances.

3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
PORTLAND CEMENT		
CAS No 65997-15-1 EC No 266-043-4	STOT SE 3resp, Eye Dam 1, Skin Irrit 2, Skin Sens 1; H335, H318, H315, H317	15 - 20%

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

Also contains component(s) not necessary to label.

SECTION 4: First Aid Measures

4.1. Description of first aid measures

Upon breathing in

Move casualty to fresh air and rinse nose, mouth and throat with water.

In case of inhaling large amounts of smoke, fog or dust, flush nose, mouth and throat with water. If symptoms occur seek medical advice.

Upon eye contact

Remove solid particles.

Flush immediately with luke-warm water for 15 - 20 minutes with wide-open eyes. Transport the injured person to a hospital immediately.

Upon skin contact

Remove contaminated clothes.

Wash the skin with soap and water.

If symptoms occur, contact a physician.

Upon ingestion

First rinse the mouth thoroughly with a lot of water and SPIT OUT the water. Then drink at least 1/2 litre of water and call a doctor/physician. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Information on symptoms are ambiguous or missing for this product.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

All normal extinguishing agents may be used.

5.2. Special hazards arising from the substance or mixture

Note that the extinguishing water may contain toxic substances or other hazardous substances.

The product is not hazardous in the flammable sense.

The product does not oxidise.

5.3. Advice for fire-fighters

Protective measures should be taken regarding other material at the site of the fire.

In case of fire use a respirator mask.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use a chemical protection suit when cleaning up large spills.

Dust filter IIb (P2) may be required when cleaning up.

In case of spillage in protected water, call the emergency services immediately, tel. 112 (in Europe).

Avoid inhalation and exposure to skin and eyes.

6.2. Environmental precautions

Avoid discharge into soil, water or air.

Avoid discharge into sewers.

6.3. Methods and material for containment and cleaning up

Dry concrete: Use sanitation methods such as vacuum sanitation and vacuum extraction (industrial portable units, equipped with highly efficient air filters (EPA and HEPA, EN 1822-1:2009) or equivalent technique) which do not lead to airborne dispersion. Never use compressed air. Alternatively clean up the dust by washing the area, wet vacuuming or by using water spray or hosing (a fine mist to avoid that the dust becomes airborne) and discard slurry. If this is not possible, discard by suspending in water (see wet concrete).

When wet cleaning or vacuuming is not possible, and only dry cleaning with brush is possible, please ensure that the workers are using adequate personal protective clothing and avoid dispersing the dust. Avoid inhalation of and skin contact with the concrete. Put waste in a container. Solidify before disposal according to the description in section 13.

Wet concrete: Remove wet concrete and put it in a container. Let the substance dry and harden before disposal according to the description in section 13.

Residues left behind after cleaning shall be treated as hazardous waste. For further information, contact the local authority sanitisation works. Present this material safety data sheet.

6.4. Reference to other sections

See section 8 and 13 for personal protection equipment and disposal considerations.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.

Do not eat, drink or smoke in premises where this product is stored.

7.2. Conditions for safe storage, including any incompatibilities

Store in a dry place not above normal room temperature.

Store in a well-ventilated space.

Eye-rinsing facilities shall be available at the workplace.

Store only in the original package.

7.3. Specific end uses

Not relevant.

SECTION 8: Exposure Controls / Personal Protection

8.1. Control parameters

8.1.1. National limit values, United Kingdom

DUST, INHALABLE

Time-weighted-average exposure limit (TWA) = 10 mg/m³

DUST, RESPIRABLE

Time-weighted-average exposure limit (TWA) = 4 mg/m³

Other ingredients (cf. Section 3) have no occupational exposure limit values.

8.2. Exposure controls

In terms of minimizing risks, attention must be paid to the health hazards (see Sections 2, 3 and 10) of this product or any of its ingredients according to EU directives 89/391 and 98/24 and national occupational legislation.

Eye protection should be worn if there is any danger of direct exposure or splashing.

Use watertight, wear- and alkali-resistant protective gloves (eg nitrile soaked cotton gloves with CE marking) internally lined with cotton.

Protect all exposed skin from coming into contact with the product.

Dust filter IIb (P2) may be required.

For limitation of environmental exposure, see Section 12.

SECTION 9: Physical And Chemical Properties

9.1. Information on basic physical and chemical properties

a. Appearance	Form: Powder Colour: white
b. Odour	Scentless
c. Odour threshold	Not applicable
d. pH	Not applicable
e. Melting point/freezing point	Not applicable
f. Initial boiling point and boiling range	Not applicable
g. Flash point	Not applicable
h. Evaporation rate	Not applicable
i. Flammability (solid, gas)	Not applicable
j. Upper/lower flammability or explosive limits	Not applicable
k. Vapour pressure	Not applicable
l. Vapour density	Not applicable
m. Relative density	3 kg/L
n. Solubility	Solubility in water: Moderately soluble (1-5%)
o. Partition coefficient: n-octanol/water	Not applicable
p. Auto-ignition temperature	Not applicable
q. Decomposition temperature	Not applicable
r. Viscosity	Not applicable
s. Explosive properties	Not applicable
t. Oxidising properties	Not applicable

9.2. Other information

No data available

SECTION 10: Stability And Reactivity

10.1. Reactivity

When the concrete is mixed with water, it hardens to a stable substance, which is not reactive in normal environments.

10.2. Chemical stability

Dry concrete is stable if stored correctly (see section 7) and it is compatible with most other building materials. It must be stored dry.

Contact with incompatible materials should be avoided. Wet concrete is alkaline and incompatible with acids, ammonium salts, aluminium and other non-noble metals. Concrete dissolves in hydrofluoric acid and creates volatile silicon tetrafluoride gas. The concrete reacts with water and creates silicates and calcium hydroxide. Silicates in concrete react with strong oxidisers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride and oxygen difluoride.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Damp storage conditions may lead to formation of lumps and diminish the product quality.

10.5. Incompatible materials

Acids, ammonium salts, aluminium or other non-noble metals. Uncontrolled use of aluminium powder in wet concrete should be avoided, as hydrogen gas is formed.

10.6. Hazardous decomposition products

Does not decompose to hazardous substances.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

General or unspecific toxicity

Note that the product is or contains an allergenic substance.

Repeated dose toxicity

Repeated or long term inhalation of the product as a powder can lead to chronic pulmonary injury.

Sensibilisation

Some individuals may develop eczema upon exposure to wet cement dust, caused either by the high pH which induces irritant contact dermatitis after prolonged contact, or by an immunological reaction to soluble Cr (VI) which elicits allergic contact dermatitis. The response may appear in a variety of forms ranging from a mild rash to severe dermatitis and is a combination of the two above mentioned mechanisms. If the cement contains a soluble Cr (VI) reducing agent and as long as the mentioned period of effectiveness of the chromate reduction is not exceeded, a sensitising effect is not expected. There is no indication of sensitisation of the respiratory system.

Corrosive and irritating effects

Contact with the eyes may cause irreversible eye damage. May cause skin irritation.

Synergism and antagonism

Enhances the risk of allergy for other substances.

Effect on human microflora

Harmful effects on human micro-flora can not be ruled out.

SECTION 12: Ecological Information

12.1. Toxicity

The product is, or contains, a substance which has been classified as an irritant. Harmful effects on animals, plants and micro-organisms in the local environment cannot be ruled out.

The product is an allergenic substance, or contains an allergenic substance. Ecological effects cannot be ruled out.

12.2. Persistence and degradability

No information about persistence or degradability exists but there is no reason to suppose that the product is persistent.

12.3. Bioaccumulative potential

No information exists on bioaccumulation, but there is no cause for concern in respect of this.

12.4. Mobility in soil

No information about mobility in the nature exists but there is no reason to suppose the product to be ecologically harmful because of this.

12.5. Results of PBT and vPvB assessment

No chemical safety report has been executed.

12.6. Other adverse effects

Not indicated

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Waste handling of the product

Hardened substance is not hazardous waste.

Classification according to 2006/12

Recommended LoW-code: 10 13 12 Solid wastes from gas treatment containing dangerous substances.

Recommended LoW-code: 17 01 06 Mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances.

Recommended LoW-code: 15 01 10 Packaging containing residues of or contaminated by dangerous substances.

Recycling of the product

This product is not usually recycled.

SECTION 14: Transport Information

14.1. UN number

Not classified as dangerous goods

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Not applicable.

15.2. Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

SECTION 16: Other Information

16a. Indication of where changes have been made to the previous version of the material safety data sheet

Revisions of this document

Earlier versions

2015-06-05 Revisions of this document has, where not otherwise stated, been caused by changes in the regulations

16b. Legend to abbreviations and acronyms used in the material safety data sheet

Full texts for Hazard Class and Category Code mentioned in section 3

STOT SE 3resp Specific organ toxicity - single exposure; May cause respiratory irritation (Category 3 resp)

Eye Dam 1 Irreversible Eye Effects (Category 1)

Skin Irrit 2 Skin Irritant (Category 2)

Sens 1 May cause an allergic skin reaction (Category 1)

Comprehensive definition of the hazards mentioned in Section 2

Skin Irrit 2

One or more criteria 1-3 for irritation of skin is applicable

Eye Dam 1

If, when applied to the eye of an animal, a substance produces at least in one animal effects on the cornea, iris or conjunctiva that are not expected to reverse or have not fully reversed within an observation period of normally 21 days and/or at least in 2 of 3 tested animals, a positive response of:

- corneal opacity ≥ 3 and/or

- iritis $> 1,5$

calculated as the mean scores following grading at 24, 48 and 72 hours after application of the test material

Skin Sens 1

Substances shall be classified as skin sensitisers (Category 1) in accordance with the criteria given below: (i) if there is evidence in humans that the substance can induce sensitisation by contact with the skin in a significant number of people, or (ii) where there are positive results from an appropriate animal test. The concentration limit 0.1% for elicitation is used for the application of the special labelling requirements of 1272/2008 Title 2.8 to protect sensitised individuals

Explanations of the abbreviations in Section 14

AADR European Agreement concerning the International Transport of Dangerous Goods by Road

RID Regulations concerning the International Transport of Dangerous Goods by Rail

16c. Key literature references and sources for data

Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list,

1272/2008 Annex I, as updated to 2016-04-05.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion.

If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

Full texts for Regulations mentioned in this Material Safety Data Sheet

2015/830

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

1272/2008

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

89/391

COUNCIL DIRECTIVE (89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work

98/24

COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)

2006/12

DIRECTIVE 2006/12/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 5 April 2006 on waste

1907/2006

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a 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 Annex I

16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I, where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI.

16e. List of relevant hazard statements and/or precautionary statements

Full texts for hazard statements mentioned in section 3

H335	May cause respiratory irritation
H318	Causes serious eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction

16f. Advice on any training appropriate for workers to ensure protection of human health and the environment

Warning for misuse

This product can cause injuries if not used properly. The manufacturer, the distributor or the supplier are not responsible for adverse effects if the product is not handled in accordance with its intended use.