



SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : MONOREX GM

Product code : MONOREX.

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

construction, ready-to-wet mortar

1.3. Details of the supplier of the safety data sheet

Registered company name : PAREXGROUP S.A.

Address : 19, place de la résistance - CS 50053.92445.Issy les Moulineaux Cedex.France.

Telephone : (33)01.41.17.20.00. Fax : 01.41.17.46.70.

fds.matiere-fr@parex-group.com

www.parexlanko.com

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

Skin sensitisation, Category 1 (Skin Sens. 1, H317).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS07



GHS05

Signal Word :

DANGER

Product identifiers :

EC 266-043-4

PORTLAND, CEMENT

EC 285-561-1

HYDRAULIC LIME

EC 215-137-3

CALCIUM DIHYDROXYDE

Hazard statements :

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H318

Causes serious eye damage.

Precautionary statements - General :

P102

Keep out of reach of children.

Precautionary statements - Prevention :

P261

Avoid breathing dust.

P280

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

Precautionary statements - Response :

P302 + P352

IF ON SKIN: Wash with plenty of soap and 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 CENTER or doctor/physician.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
Precautionary statements - Disposal :
P501 To eliminate the contents / packaging in a waste collection point.
Beforehand, the product should be inerted by hardening in the water and the packagings should be completely emptied.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>
The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

| Identification | (EC) 1272/2008 | Note | % |
|---|---|------|---------------------|
| INDEX: 2076 CAS: 14808-60-7 EC: 238-878-4 QUARTZ | | [1] | 50 \leq x % < 100 |
| INDEX: 1026 CAS: 65997-15-1 EC: 266-043-4 PORTLAND, CEMENT | GHS07, GHS05 Dgr Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 STOT SE 3, H335 | [1] | 2.5 \leq x % < 10 |
| INDEX: 2043 CAS: 1317-65-3 EC: 215-279-6 CALCIUM CARBONATE | | [1] | 2.5 \leq x % < 10 |
| INDEX: 2270 CAS: 85117-09-5 EC: 285-561-1 REACH: 01-2119475523-36-0004 HYDRAULIC LIME | GHS07, GHS05 Dgr Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 | | 2.5 \leq x % < 10 |
| INDEX: 1049 CAS: 1305-62-0 EC: 215-137-3 REACH: 01-2119475151-45 CALCIUM DIHYDROXYDE | GHS07, GHS05 Dgr Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 | [1] | 2.5 \leq x % < 10 |

Information on ingredients :

[1] Substance for which maximum workplace exposure limits are available.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation :

Wash the nose and throat (only if the victim is conscious). Remove the person outdoors to fresh air. In case of respiration trouble, consult a doctor.

In the event of splashes or contact with eyes :

Rinse IMMEDIATELY with a large amount of water for at least 15 minutes holding the eyelids open. Make move the eyes in every direction to make sure that all product traces have been removed. Consult an eye doctor.

In the event of splashes or contact with skin :

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

For dry powder, eliminate the dust and wash copiously with water. For wet powder, wash with a large amount of water.

In the event of swallowing :

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Seek medical attention immediately, showing the label.

For small quantities, rinse the mouth with water and seek medical advice. For large quantities, do not allow the person to drink, do not cause the person to vomit. Transfer the person to a hospital and show the product label or this material safety data sheet to the medical staff on duty.

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

No data available.

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

Specific and immediate treatment :

Wash copiously with water.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

5.2. Special hazards arising from the substance or mixture

5.3. Advice for firefighters

No data available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Do avoid eyes and skin contact and breathing dust. Use the product with suitable working clothes (goggles, working-suit, boots,...) and wear a dust mask in case of dust in air.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13).

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Avoid spilling of powder in large quantities into sewers and waterways.

6.3. Methods and material for containment and cleaning up

Collect product by machine and deposit in suitable container.

After setting, the product can be dumped as an usual construction waste.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

The product should be handled in well-ventilated condition. Avoid dust dispersion, in case of dust in the air, use a powder mask.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid inhaling dust.

Avoid eye contact with this mixture at all times.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

Never open the packages under pressure.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.
In damp free conditions.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

| CAS | TWA : | STEL : | Ceiling : | Definition : | Criteria : |
|------------|------------------------|--------|-----------|--------------|------------|
| 14808-60-7 | 0.05 mg/m ³ | - | - | - | R |
| 65997-15-1 | 10 mg/m ³ | - | - | - | - |
| 1305-62-0 | 5 mg/m ³ | - | - | - | - |

- France (INRS - ED984 :2012) :

| CAS | VME-ppm : | VME-mg/m ³ : | VLE-ppm : | VLE-mg/m ³ : | Notes : | TMP No : |
|------------|-----------|-------------------------|-----------|-------------------------|---------|----------|
| 14808-60-7 | - | 0.1 A | - | - | - | 25 |
| 1317-65-3 | - | 10 | - | - | - | - |
| 1305-62-0 | - | 5 | - | - | - | - |

- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :

| CAS | TWA : | STEL : | Ceiling : | Definition : | Criteria : |
|------------|-----------------------|--------|-----------|--------------|------------|
| 14808-60-7 | 0.3 mg/m ³ | - | - | - | R |
| 65997-15-1 | 10 mg/m ³ | - | - | - | TI |
| 1305-62-0 | 5 mg/m ³ | - | - | - | - |

- Belgium (Order of 19/05/2009, 2010) :

| CAS | TWA : | STEL : | Ceiling : | Definition : | Criteria : |
|------------|-----------------------|--------|-----------|--------------|------------|
| 14808-60-7 | 0.1 mg/m ³ | - | - | - | - |
| 65997-15-1 | 10 mg/m ³ | - | - | - | - |
| 1305-62-0 | 5 mg/m ³ | - | - | - | - |

8.2. Exposure controls

Suitable technical inspections

Avoid eyes and skin contact.
Do not rub the eyes with dirty hands.
Anyone with a history of skin sensitisation must on no account handle such products.

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.
Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.
Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.
Envisage in the vicinity a clean water container or an ocular fountain in the event of projection in the eyes
In case of powder or paste splashing risk, use protective goggles.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.
Work gloves waterproof, lined with cotton or creams.

- Body protection

Avoid skin contact.
Work clothing worn by personnel shall be laundered regularly.
After contact with the product, all parts of the body that have been soiled must be washed.
Closed working clothes protecting forearms in continuous with gloves. In case of kneeling work, waterproof kneepads are recommended.

Protective "barrier" creams can be used. Avoid prolonged contact. Ensure that no product remains between the skin and the clothes, the watch, the shoes.

- Respiratory protection

Avoid breathing dust.

Type of FFP mask :

Wear a disposable half-mask dust filter in accordance with standard EN149.

Powder mask in case of dust in air.

- Thermal risks

The substance shows no thermal hazard.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties****General information :**

| | |
|------------------|-----------------|
| Physical state : | Powder or dust. |
|------------------|-----------------|

Important health, safety and environmental information

| | |
|---|-----------------|
| pH : | Not stated. |
| | Strongly basic. |
| Boiling point/boiling range : | Not relevant. |
| Flash point interval : | Not relevant. |
| Vapour pressure (50°C) : | Not relevant. |
| Density : | > 1 |
| Water solubility : | Dilutable. |
| Melting point/melting range : | Not relevant. |
| Self-ignition temperature : | Not relevant. |
| Decomposition point/decomposition range : | Not relevant. |

9.2. Other information

No data available.

SECTION 10 : STABILITY AND REACTIVITY**10.1. Reactivity**

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid :

- humidity

The mortar can harden in case of damp.

10.5. Incompatible materials**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

SECTION 11 : TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days.

Serious eye damage is typified by the destruction of cornea, persistent corneal opacity and iritis.

May cause an allergic reaction by skin contact.

11.1.1. Substances**Acute toxicity :**

PORTLAND, CEMENT (CAS: 65997-15-1)

Dermal route :

LD50 = 2500 mg/kg

Species : Rat

OCDE Ligne directrice 402 (Toxicité aiguë par voie cutanée)

CALCIUM DIHYDROXYDE (CAS: 1305-62-0)

Oral route :

LD50 > 2000 mg/kg

Species : Rat

OCDE Ligne directrice 425 (Toxicité aiguë par voie orale - Méthode de l'ajustement des doses)

Dermal route :

LD50 > 2500 mg/kg

Species : Rabbit

OCDE Ligne directrice 402 (Toxicité aiguë par voie cutanée)

HYDRAULIC LIME (CAS: 85117-09-5)

Oral route :

LD50 > 2000 mg/kg

Species : Rat

OCDE Ligne directrice 425 (Toxicité aiguë par voie orale - Méthode de l'ajustement des doses)

Skin corrosion/skin irritation :

CALCIUM DIHYDROXYDE (CAS: 1305-62-0)

Irritation :

Effect observed : Irritation globale

Causes skin irritation.

2.3 <= Average score <= 4.0

Species : Rabbit

OCDE Ligne directrice 404 (Effet irritant/corrosif aigu sur la peau.)

Serious damage to eyes/eye irritation :

CALCIUM DIHYDROXYDE (CAS: 1305-62-0)

Causes serious eye damage.

Corneal haze :

Average score >= 3

Species : Rabbit

Iritis :

Average score > 1.5

Species : Rabbit

The substance produces at least in one animal effects on the conjunctiva that are not expected to reverse or have not fully reversed within an observation period of normally 21 days.

Species : Rabbit

Species : Guinea pig

Germ cell mutagenicity :

CALCIUM DIHYDROXYDE (CAS: 1305-62-0)

Mutagenesis (in vitro) :

Negative.

Species : Mammalian Cell Line

OCDE Ligne directrice 471 (Essai de mutation réverse sur des bactéries)

Ames test (in vitro) :

Negative.

HYDRAULIC LIME (CAS: 85117-09-5)

Mutagenesis (in vitro) :

Negative.

Species : Mammalian Cell Line

OCDE Ligne directrice 471 (Essai de mutation réverse sur des bactéries)

Specific target organ systemic toxicity - repeated exposure :

CALCIUM DIHYDROXYDE (CAS: 1305-62-0)

Oral route :

C = 36 mg/kg poids corporel/jour

Duration of exposure : 90 jours

11.1.2. Mixture**Skin corrosion/skin irritation :**

In case of damp skin, the partial hydration of cement increases the pH and can irritate the skin. A prolonged contact with a cement paste can induce skin burning.

Serious damage to eyes/eye irritation :

The cement can induce eyelids irritation (blepharite), corneal irritation (conjunctivitis) and create eyeball injury.

Respiratory or skin sensitisation :

The cement can induce irritation of the breathing passage and a nasal mucous inflammation. In extreme case, mucous erosion has been observed.

Prolonged exposure without proper protection (gloves) can cause irritation of dermatitis. In subjects prone to allergies, these lesions may precede an allergy to certain elements present in trace amounts in the cement. Other lesions may be encountered when contact prolonged unprotected.

They usually appear on fingers fissural dermatitis, ulcers, kyperkératoses.

May cause allergic skin reaction.

Other information

If swallowed significant, cement is caustic to the digestive tract, may cause burns of the mouth, esophagus and stomach.

SECTION 12 : ECOLOGICAL INFORMATION**12.1. Toxicity****12.1.1. Substances**

CALCIUM DIHYDROXYDE (CAS: 1305-62-0)

Fish toxicity :

LC50 = 50.6 mg/l

Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 49.1 mg/l

Duration of exposure : 48 h

NOEC = 32 mg/l

Species : Daphnia magna

Duration of exposure : 14 jours

Algae toxicity :

ECr50 = 184.57 mg/l

Duration of exposure : 72 h

NOEC = 48 mg/l

Duration of exposure : 72 h

HYDRAULIC LIME (CAS: 85117-09-5)

Fish toxicity :

LC50 = 50.6 mg/l

Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 49.1 mg/l

Duration of exposure : 48 h

NOEC = 32 mg/l

Duration of exposure : 14 jours

Algae toxicity :

ECr50 = 184.57 mg/l

Duration of exposure : 72 h

NOEC = 48 mg/l

Duration of exposure : 72 h

12.1.2. Mixtures

The product must not be allowed to run into drains or waterways.

12.2. Persistence and degradability**12.2.1. Substances**

CALCIUM DIHYDROXYDE (CAS: 1305-62-0)

Biodegradability :

no degradability data is available, the substance is considered as not degrading quickly.

HYDRAULIC LIME (CAS: 85117-09-5)

Biodegradability :

no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential

none.

12.4. Mobility in soil

none.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

In case of accidental pouring in waste water, the powder increase weakly the pH . The cement is a stable material.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

After curing, the mortar can be removed like other construction debris and stored in landfills in accordance with appropriate regulations.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste) :

17 01 01 concrete

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2015 - IMDG 2014 - ICAO/IATA 2015).

SECTION 15 : REGULATORY INFORMATION

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

- Classification and labelling information included in section 2:

The following regulations have been used:

- Regulation EC 1272/2008 modified by regulation EC 618/2012

- Container information:

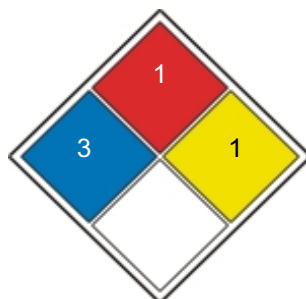
No data available.

- Particular provisions :

No data available.

- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :

NFPA 704, Labelling: Health=3 Inflammability=1 Instability/Reactivity=1 Specific Risk=none



15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

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

Abbreviations :

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

GHS05 : Corrosion

GHS07 : Exclamation mark