

Safety Data Sheet

In accordance with Regulation (EU) no. 453/2010 and Regulation (EC) no. 1272/2008
(All references to EU regulations and directives are abbreviated into only the numeric term)

Release Date: 1.2017
Revision Date: 11.2024
Version: 3.0

Mulcol® Multimortar

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

1.1. Product identifier

Trade name **Mulcol® Multimortar**
Firestop Mortar

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

Identified uses Fireproof cement

1.3. Details of the supplier of the safety data sheet

Company Mulcol International
Promenade 75
5401 GM Uden
The Netherlands
Telephone +31 (0)118-726140
E-mail info@mulcol.com
Website www.mulcol.com

1.4. Emergency telephone number

In case of emergency contact toxicological information, emergency tel. 112 or 999.

For non-emergency poison information, United Kingdom: National Poisons Information Service 0344 892 0111 (for healthcare professionals only)

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

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
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

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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 a pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Substance	CAS No. / EC No.	Classification	Concentration %
Calcium Sulphate hemihydrate	7778-18-9 / 231-900-3	Not Classified	90-100
Cement	65997-15-1 / 266-043-4	STOT SE 3 <i>resp</i> , Eye Dam 1, Skin Irrit 2, Skin Sens. 1 : H335, H318, H315, H317	1-5
Glass Fiber	65997-17-3/266-046-0	Not Classified	1-5

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 complement used in the calculation of the hazards 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

IF INHALED

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.

IF IN EYES

Remove solid particles.

Flush immediately with luke-warm water for 15 - 20 minutes with wide-open eyes. Seek immediate medical attention.

IF ON SKIN

Remove contaminated clothes.

Wash the skin with soap and water.

If symptoms occur, contact a physician.

IF INGESTED

First rinse the mouth thoroughly with a lot of water and SPIT OUT the water. Then drink at least 1/2 Liter 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 media may be used.

5.2. Special hazards arising from the substance or mixture

Note that the extinguishing water may contain hazardous substances.

5.3. Advice for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. See section 8 for personal protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Control dust formation. Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

In case of spillage in protected water, immediately contact the local authorities.

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6.2. Environmental precautions

Do not let product enter drains.

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 and present this 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, animals and release to the environment.

Prevent dust formation and ensure a well-ventilated workplace.

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 and cool place.

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

Apart from the use mentioned in section 1.2 no other specific uses are recommended.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. National limit values, United Kingdom

Substance	CAS No. / EC No.	Workplace exposure limit
Calcium Sulphate hemihydrate	7778-18-9 / 231-900-3	Inhalable dust: 10 mg/m ³ (TWA – 8 hr) Respirable dust: 4 mg/m ³ (TWA – 8 hr)
Cement	65997-15-1 / 266-043-4	Inhalable dust: 10 mg/m ³ (TWA – 8 hr) Respirable dust: 4 mg/m ³ (TWA – 8 hr)

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. Ensure a well-ventilated workplace.

Eyes/Face protection

Eye protection should be worn. Wear Class 2A5 goggles in line with EN 166 to prevent possible contact.

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Skin protection

Wear gloves that are approved according to EN 374. Consult the manufacturer of the gloves for precise information about their chemical resistance. Pay attention to mechanical wear strength.

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: >480 min

Material: butyl rubber

Minimum layer thickness: 0,11 mm

Break through time: >480 min

If high risk of contact with the skin is present, a chemical protective suit and boots should be worn.

Respiratory protection

Respiratory protection is required if dust is formed or the workplace exposure limits are exceeded.

Required filter type: P2

For limitation of environmental exposure, see Section 12.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Solid
Colour	White
Odour	Scentless
Odour threshold	Not applicable
Melting point/freezing point	>1400 °C
Initial boiling point and boiling range	No data available
Flammability	Not flammable
Upper/lower explosive limits	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
pH	No data available
Kinematic viscosity	Not applicable
Solubility	Reaction with water (see section 10.1)
Partition coefficient: n-octanol/water	Not applicable
Vapour pressure	No data available
Relative density	No data available
Relative vapour density	Not applicable
Particle Characteristics	Powder

9.2. Other information

Not applicable

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. 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 oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride and oxygen difluoride. Uncontrolled use of aluminium powder in wet concrete should be avoided, as hydrogen gas is formed.

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.

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10.3. Possibility of hazardous reactions

Exothermic reaction with water.

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.

10.6. Hazardous decomposition products

Does not decompose to hazardous substances.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Oral: No data available

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation

No data available

Remarks: May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Remarks: No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

General or unspecific toxicity

Repeated dose toxicity

Sensibilisation

Corrosive and irritating effects

Synergism and antagonism

Effect on human microflora

note that the product is or contains an allergenic substance.

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

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.

Contact with the eyes may cause irreversible eye damage.

May cause skin irritation.

Enhances the risk of allergy for other substances.

Harmful effects on human micro-flora cannot be ruled out.

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11.2 Information on other hazards.

Endocrine disrupting properties:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100, or Commission Regulation (EU) 2018/605 and 2006/1907 at levels of >0.1%

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No chemical safety report has been executed.

12.6. Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100, or Commission Regulation (EU) 2018/605 and 2006/1907 at levels of >0.1%

12.7. Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste handling for the product

Harden the product with water before disposal. Waste treatment containers must have sufficient mechanical strength. Hardened substance is not hazardous waste.

Classification according to 2006/12

Recommended LoW-code: 17 08 02

Recycling of the product

This product is not usually recycled.

Do not dispose the product into the sewage system.

SECTION 14: TRANSPORT INFORMATION

This product is only supposed to be transported by road, railway, sea or inland waterways and the transport regulations ADR, RID, IMDG and ADN thus apply. If other means of transport are to be used, contact the publisher of this safety data sheet.

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.

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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 safety data sheet

Revisions of this document

Earlier versions

2013-02-28 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 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).

Skin Sens 1 Skin Sensitisation 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 sensitizers (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

ADR 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 2015-07-28. Where such data was lacking, on the second hand the documentation on which this official classification is based was used, e.g. IUCLID (International Uniform Chemical Information Database). On the third hand, information was used from reputable international chemical suppliers, and on the fourth hand from other available information, e.g.

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safety data sheets from other suppliers or information from non-profit associations, whereby the reliability of the source was judged by an expert. If, in spite of this, reliable information was not found, the hazards were judged by expert opinions based on the known properties of similar substances, and according to the principles in 1907/2006 and 1272/2008.

Full texts for Regulations mentioned in this Safety Data Sheet

453/2010	COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 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

The calculation of the hazards of this mixture has been performed as an evaluation by applying a weight of evidence determination using expert judgement in accordance with 1272/2008 Annex I, weighing all available information having a bearing on the determination of the hazards of the mixture, 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

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

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.

Notice to reader

The information contained in this safety data sheet is based on the present state of knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not be construed as any guarantee of the technical performance or suitability for particular applications.

The information in this safety data sheet is based on data and samples tested by Mulcol International B.V. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1.

New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes.

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The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. Mulcol International B.V. does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties.

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