

DESOI SPIRAL ANCHOR MORTAR

Safety Data Sheet

Nr: 53030 | 53031

according to Regulation (EC) No. 1907/2006 (REACH)

(This safety data sheet is for information only and does not comply with the official language requirements of article 31 (5) of REACH.)

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Anchor mortar/cementitious

1.2 Details of the manufacturer/supplier

Supplier: DESOI GmbH
Street: Gewerbestraße 16
Nat. code/postcode/location: 36148 Kalbach/Rhön
Phone: +49 6655 9636-0
Fax: +49 6655 9636-6666

Emergency information

Poison Information Centre Mainz: +49 6131 19-240
Emergency information centre Berlin: +49 30 1924-0
Available 24 hours a day

2. Hazards identification

2.1 Hazard designation



Xi (irritant), Signal word: Danger, Pictograms: GHS05-GHS07

Safety instructions: Keep container tightly closed. Wear protective gloves/protective clothing/eye protection/face protection. In case of contact with skin: Wash with plenty of soap and water. Avoid inhalation of dust. In case of contact with eyes: Rinse cautiously with water for several minutes. Remove contact lenses if possible. Continue rinsing. Immediately call a poison centre or doctor.

Note on labelling: The product is classified and labelled according to EC directives or the respective national laws.

2.2 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.
P261 Avoid breathing dust.
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 person to fresh air and keep 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/doctor/...
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Additional dangers

Due to the irritant properties of this product, repeated skin contact may worsen an existing dermatitis (or skin condition).

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3. Composition/information on ingredients

3.1 Chemical characterisation (preparation)

Preparation/mixture of mineral binders, aggregates and additives

Hazardous ingredients:

EG-No.	CAS-No.	Designation	REACH-No.	Classification	GHS classification	Share
266-043-4	65997-15-1	portland cement		Xi - Irritant Wording of H-phrases: see section 15.	STOT SE 3, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1; H335 H315 H318 H317	30 - 99 %
270-659-9	68475-76-3	portland cement, flue dust	01-2119486767-17	Xi - Irritant Wording of H-phrases: see section 15.	STOT SE 3, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1; H335 H315 H318 H317	0 - 5 %

Further information:

The preparation is low in chromate. The content of soluble chromium (VI) compounds is reduced to below 2 ppm by additives in the cement content. Proper storage and observance of the expiry date are prerequisites for the effectiveness of chromate reduction.

4. First aid measures

4.1 General notes

Take off immediately all contaminated clothing.

In all cases of doubt, or when symptoms persist, seek medical advice.

In case of unconsciousness place person in the recovery position. Never give anything by mouth.

4.2 Following inhalation

Provide fresh air.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

4.3 Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.

Brush off loose particles from skin.

If skin irritation or rash occurs: Get medical advice/attention.

4.4 Following eye contact

Rinse immediately carefully and thoroughly with eye shower or water.

Remove contact lenses, if present and easy to do. Continue rinsing.

Get immediate medical advice/attention.

4.5 Following ingestion

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting.

Get immediate medical advice/attention.

4.6 Notes for the doctor

None.

4.7 Most important symptoms and effects, both acute and delayed

Cough, pain, choking, and breathing difficulties.

Risk of serious damage to eyes.

4.8 Indication of any immediate medical attention and special treatment needed

None.

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5. Firefighting measures

5.1 Suitable extinguishing media

water, foam, alcohol resistant foam, fire extinguishing powder, Co-ordinate firefighting measures to the fire surroundings

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: Section 10.

Hazardous combustion products

carbon monoxide (CO), carbon dioxide (CO₂)

5.3 Advice for firefighters

Non-combustible.

Keep containers cool with water spray.

In case of fire and/or explosion do not breathe fumes.

Co-ordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses.

Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

self-contained breathing apparatus (SCBA)

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

Ventilate affected area.

Control of dust.

Do not breathe dust.

Do not get in eyes, on skin, or on clothing.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Pick up dry. Use an authorised industrial Hoover for collection. (EPA/HEPA filter, EN 1822 - 1:2009)

Avoid dust formation. Take respiratory protection measures. Moisten and remove. Allow to solidify and pick up mechanically. Dispose of as described in section 13.

6.4 Additional notes

See section 8.

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7. Handling and storage

7.1 Handling

7.1.1 Precautions for safe handling

Avoid dust formation. Do not inhale dust. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or snuff while working. Keep away from food and drink. Product must not come into contact with air humidity before use.

When mixing bagged goods and using open mixing containers, first pour in water, then carefully pour in the dry material. Keep the drop height low and start the agitator slowly.

7.1.2 Information on fire and explosion protection

No special measures required.

Observe hygiene and safety measures when handling the products. Handle, store and transport in accordance with local regulations and in labelled containers suitable for this product. Do not eat or drink while working.

7.2 Storage

7.2.1 Requirements for storage rooms and containers

Follow the manufacturer's instructions. Store only in the original container. Avoid any contact of the product with water during storage. Store in a cool and dry place. Protect from contamination. Protect from humidity and water.

7.2.2 Information about storage in one common storage facility

No data known.

7.2.3 Further information on storage conditions:

When not in use, the product must be stored in its original transport packaging. Store product upright.

Keep the packaging dry and tightly closed to avoid contamination and absorption of moisture. Proper storage and observance of the expiry date are prerequisites for the effectiveness of chromate reduction.

8. Exposure controls/personal protection

8.1 Additional information on the design of technical systems

No special measures required.

8.2 Assigned substances with workplace-related limit values to be monitored

CAS-No.	Name of substance	Value	Unit	F/m ³	Category	Origin
68475-76-3	portland cement	5 (E)	mg/m ³		Tmw (8 h) Kzw (15 min)	MAK

Relevant PNEC of components of the mixture

CAS-No.	Name of substance	End point	Threshold level	Environmental compartment
68475-76-3	portland cement	PNEC	282 µg/l	Freshwater
68475-76-3	portland cement	PNEC	28 µg/l	Seawater
68475-76-3	portland cement	PNEC	6 mg/l	Sewage treatment plant (STP)
68475-76-3	portland cement	PNEC	875 µg/kg	Freshwater sediment
68475-76-3	portland cement	PNEC	88 µg/kg	Marine sediment
68475-76-3	portland cement	PNEC	5 mg/kg	Sediments

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8.3 Personal protective equipment

8.3.1 General protective and hygienic measures

Avoid contact with eyes and skin. Remove contaminated clothing and wash before reuse. Do not eat, drink, smoke or snuff while working. Wash hands before breaks and at the end of work. Shower or bathe at the end of work.

8.3.2 Respiratory protection

Effective dust mask EN149, EN140, EN14387, EN1827 (filter equipment with FFP1 or FFP2 filter). Wear self-contained breathing apparatus and dustproof protective clothing in the event of vapours and/or the development of respirable dust.

8.3.3 Hand protection

Protective gloves

Material	Material thickness	Breakthrough times of the glove material
NBR: acrylonitrile-butadiene rubber	≥ 0,15 mm	no information available

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

8.3.4 Eye/face protection

Wear eye/face protection. (EN 166).

8.3.5 Body protection

Protective clothing for use against solid particulates.
(EN 13832, EN 340, EN 14605).

9. Physical and chemical properties

9.1 Appearance

Physical state:	solid (powder)
Colour:	grey - white
Odour:	odourless

9.2 Safety-relevant data

Change of state:

Melting point/freezing point:	> 1250 °C
Boiling point or initial boiling point and boiling range:	not relevant (melting point: >1.250 °C)

Fire-promoting properties:

Flash point:	not applicable
Auto-ignition temperature:	not applicable
Decomposition temperature:	not relevant (solid)
Vapour pressure:	not relevant (melting point: >1.250 °C)
Density:	2.75 - 3.2 g/cm ³
Bulk density:	0.9 - 1.5 kg/m ³
Water solubility:	(at 20 °C) 0.1 - 1.5 g/L
pH value (at 20 °C):	11.0 - 13.5 (solids - water 2:1)
Partition coefficient:	not applicable
Dyn. viscosity:	not applicable
Kin. Viscosity:	not applicable
Relative vapour density:	not applicable

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9.3 Further information

No data known.

10. Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

See below „Conditions to avoid“.

10.3 Possibility of hazardous reactions

Reactions with light metals to form hydrogen.

10.4 Conditions to avoid

Protect from moisture.

10.5 Incompatible materials

acids, aluminium, ammonium compounds, metals

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

Hazardous combustion products: see section 5.

11. Toxicological information

11.1 General information

No toxicological tests on animals are available for the preparation.

11.2 Acute toxicity of components of the mixture

Classified substances with limit values to be monitored at the workplace

CAS-No.	Name of substance	Expositionsweg	End point	Value	Species	Method	Source
68475-76-3	flue dust, portland cement	oral	LD0	> 1.848 mg/kg	rat	OECD Guideline 422	ECHA
68475-76-3	flue dust, portland cement	dermal	LD0	≥ 2.000 mg/kg	rat	OECD Guideline 402	ECHA
68475-76-3	flue dust, portland cement	inhalation: dust/mist	LC50	> 6,04 mg/l/4h	rat	OECD Guideline 436	ECHA

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Skin sensitisation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Respiratory sensitisation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Germ cell mutagenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Carcinogenicity

Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.

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Reproductive toxicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.3 Information on other hazards

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$.

12. Ecological information

12.1 Information on elimination (persistence and degradability)

Not applicable.

12.2 Behaviour in environmental compartments

Not applicable.

12.3 Ecotoxic effects

Not applicable.

12.4 Further ecological information

Low acute toxicity:

Water flea (*Daphnia magna*) (U.S. EPA, 1994a) (7); Algae (*Selenastrum capricornutum*) (U.S. EPA, 1993) (8).

The product is not considered to be hazardous to aquatic organisms.

Aquatic toxicity:

Larger quantities: Toxic effect on aquatic life cannot be excluded due to pH shift. If the product is released into the environment, it is mainly adsorbed by sediments and soil.

Do not allow to enter surface water or sewage system. Avoid contamination of groundwater by the material. Avoid penetration into the subsoil.

13. Disposal considerations

13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packages

Completely emptied packages can be recycled.

Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions.

14. Transport information

14.1 UN number or ID number

not assigned

14.2 UN proper shipping name

not assigned

14.3 Transport hazard class(es)

not assigned

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- 14.4 Packing group
not assigned
- 14.5 Environmental hazards
not assigned
- 14.6. Special precautions for user
not assigned
- 14.7. Maritime transport in bulk according to IMO instruments
not assigned

15. Regulatory information

15.1 Labelling according to EC directives

Additional information: No substances of very high concern (SVHC) according to REACH, Article 57.

Note: Directive 1907/2006 (REACH) ANNEX XVII, R47

Name: flue dust, portland cement, **Name acc. to inventory:** chromium(VI) compounds, **Restriction R47**

Legend R47

1. Cement and cement-containing mixtures shall not be placed on the market, or used, if they contain, when hydrated, more than 2 mg/kg (0,0002 %) soluble chromium VI of the total dry weight of the cement.
2. If reducing agents are used, then without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of cement or cement-containing mixtures is visibly, legibly and indelibly marked with information on the packing date, as well as on the storage conditions and the storage period appropriate to maintaining the activity of the reducing agent and to keeping the content of soluble chromium VI below the limit indicated in paragraph 1.
3. By way of derogation, paragraphs 1 and 2 shall not apply to the placing on the market for, and use in, controlled closed and totally automated processes in which cement and cement-containing mixtures are handled solely by machines and in which there is no possibility of contact with the skin.
4. The standard adopted by the European Committee for Standardization (CEN) for testing the water-soluble chromium (VI) content of cement and cement-containing mixtures shall be used as the test method for demonstrating conformity with paragraph 1.
5. Leather articles coming into contact with the skin shall not be placed on the market where they contain chromium VI in concentrations equal to or greater than 3 mg/kg (0,0003 % by weight) of the total dry weight of the leather.
6. Articles containing leather parts coming into contact with the skin shall not be placed on the market where any of those leather parts contains chromium VI in concentrations equal to or greater than 3 mg/kg (0,0003 % by weight) of the total dry weight of that leather part.
7. Paragraphs 5 and 6 shall not apply to the placing on the market of second-hand articles which were in end-use in the Union before 1 May 2015.

15.2 Identification letter and hazard designation of the product

Xi (irritant).

15.3 H-phrases

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

15.4 List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

Seveso Directive

Not assigned.

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

None of the ingredients are listed.

Regulation on the marketing and use of explosives precursors

None of the ingredients are listed.

Regulation on drug precursors

None of the ingredients are listed.

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Regulation on substances that deplete the ozone layer (ODS)

None of the ingredients are listed.

Regulation concerning the export and import of hazardous chemicals (PIC)

None of the ingredients are listed.

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (Germany)

Ordinance on facilities for handling substances hazardous to water (AwSV)

water hazard class 2- classification acc. to annex 1 (AwSV)

Technical instructions on air quality control (Germany)

Not assigned.

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 13, (non-combustible solids)

Other information

Observe employment restrictions for young people according to § 22 JArbSchG. Observe occupational restrictions for mothers acc. to § 11 MuSchG!

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

When using these materials take appropriate safety measures, if applicable wear safety goggles, safety gloves, ear protection, etc.

This data sheet is based on comprehensive experience, is intended to provide information to the best of the knowledge, does neither substantiate a legal relationship nor an additional obligation from the purchase contract. We guarantee the quality of our materials in accordance with our sales terms and delivery conditions. In order to reduce the risk of errors restrictive information is stated as well. Naturally, not all possible present and future applications and specific features can be included completely. We relinquished details that are understood to be known by experts. The user cannot be absolved from responsibility for enquiring in cases of uncertainties, for on-site testings under his own responsibility, and for professional workmanship. When a new version of the printed matter is published, this one becomes invalid.

As at 10/2024 ER