

Trade name: **CAPOSIL thinner 1316**

Effective date: 08.01.2025

Version: 1.0 (replaces all previous versions)

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

1.1 Product identifier

Trade name: CAPOSIL thinner 1316

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

The product is a thinner for CAPOSIL concrete varnish.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier:

Backstein Engineering GmbH
Langgasse 21
D-65510 Idstein
Germany
Tel. +49 (0) 6434/9089115
E-Mail: shop@moertelshop.com

1.4 Emergency telephone number

Not available

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture according to Regulation (EC) No

2.2 1272/2008 [CLP]

Flam. Liq. 3 [H226] - Flammable liquids Category 3: Flammable liquid and vapour

2.3 Label elements according to Regulation (EC) No

2.4 1272/2008 [CLP/GHS]

2.4.1 Hazard pictograms and signal word

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GHS02

WARNING

2.4.2 Hazard-determining components for labeling

Trimethoxy(2,4,4-trimethylpentyl)silane

2.4.3 Hazard statements

[H226] Flammable liquid and vapour

2.4.4 Precautionary statements

[P210] Keep away from heat, hot surfaces, sparks, open flames and other ignition sources; No smoking

[P233] Keep container tightly closed

[P501] Move contents / container to suitable waste collection points

[P243] Take precautionary measures against electrostatic discharge.

2.5 Supplemental Hazard information

Inhalation of aerosol mists may cause damage to health. Product hydrolyses to form methanol (CAS No. 67-56-1). Methanol is classified with regard to physical and health hazards. The rate of hydrolysis and thus the relevance for the hazard potential of the product are highly dependent on the specific conditions. Endocrine disrupting properties - human health: The substance/mixture contains no components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more. Endocrine disrupting properties - Environment: The substance/mixture does not contain components with endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

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3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

CAS No.: 34396-03-7

Organosilane

Hazardous ingredients:

Trimethoxy(2,4,4-trimethylpentyl)silane >90 %

CAS No.: 34396-03-7

EC No.: 251-995-5

INHA

REACH No.: 01-2119970322-42

Classification according to Regulation (EC) No 1272/2008*

Flam. Liq. 3 / H226

Type: INHA: Ingredient, VERU: Impurity

REACH-registered substances may be present as impurities. As a rule, these do not lead to the indication of identified uses and exposure scenarios in the safety data sheet.

*The information on classification is explained in Chapter 16.

This product does not contain substances of very high concern (REACH Regulation (EC) No. 1907/2006, Article 57) above $\geq 0.1\%$.

3.2 Mixtures

3.2.1 Composition/information on ingredients

Not applicable

3.2.2 Hazardous ingredients

4 FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 General information

Helpers pay attention to self-protection. Remove contaminated clothing immediately.

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4.1.2 Following skin contact

After contact with skin, wash immediately with plenty of soap and water. Never use solvents. If irritation occurs, seek medical attention.

4.1.3 Following eye contact

Thoroughly rinse under running water for 15 minutes with splayed eyelids, ophthalmological check-up.

4.1.4 Following inhalation

Keep at rest. If unconscious, place in stable lateral position. In case of respiratory arrest, give artificial respiration. Protect from hypothermia. Call a doctor immediately and name the exact substance.

4.1.5 Following ingestion

Drink plenty of water in small portions, but only if the person is conscious. Do not induce vomiting induce vomiting. Call a doctor immediately and name the exact substance.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: The major known symptoms and effects are described in the labeling of the product (see section 2) and / or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Methanol (CAS 67-56-1) is readily and rapidly absorbed via all routes of exposure and is toxic regardless of the route of ingestion. Methanol can cause irritation of the mucous membranes, nausea, vomiting, headache, dizziness and visual disturbances, as well as blindness (irreversible damage to the optic nerve), acidosis, muscle cramps and coma. There may be a delay in the onset of these effects after exposure. Further information on toxicology in section 11 must be observed.

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Alcohol-resistant foam, carbon dioxide, water mist, sprinkler system, sand, extinguishing powder.

Unsuitable extinguishing agents for safety reasons: Water jet

5.2 Special hazards arising from the substance or mixture

In case of fire, hazardous combustion gases or vapours may be produced. Exposure to combustion products can be a health hazard! Hazardous fire products: toxic and very toxic fumes.

5.3 Firefighting measures

Protective equipment: Wear self-contained breathing apparatus.

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Danger depends on the combustible materials and the fire conditions. Cool containers exposed to heat with water. Collect contaminated extinguishing water separately, must not get into drains or sewage. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Secure the area. Wear personal protective equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. If material has been released, draw attention to the risk of slipping. Do not walk through spilt material.

6.2 Environmental precautions

Do not allow to enter water, waste water or soil. Close the leak if this is possible without endangering the environment. Contain leaking liquid with suitable material (e.g. earth). Retain contaminated water / extinguishing water. Dispose of in properly labelled containers. In the event of leakage into waterways, sewage system or underground, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Pick up mechanically and dispose of properly. Do not flush away with water. For small quantities: Absorb with neutral (non-alkaline / non-acidic), liquid-binding material such as diatomaceous earth and dispose of properly. For large quantities: Liquids can be taken up with suction devices or pumps. If flammable, use only air-powered or properly adjusted electrical appliances. Remove any remaining slippery coating with detergent/soap solution or other biodegradable cleaner. Silicone oils are slippery, so spillages are a safety hazard. To improve grip, apply sand or other inert, granular material.

6.4 Reference to other sections

See section 7 for safe handling information

See section 8 for personal protection information

See section 13 for Information on disposal

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Advice on safe handling

Ensure good room and workplace ventilation. Extraction required at the object. Spilled substance causes increased risk of slipping. Avoid aerosol formation. In case of aerosol formation, special protective measures (extraction, respiratory protection) are required. Observe information in section 8. Keep away from incompatible substances according to section 10.

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7.1.2 Fire preventions

Product can release methanol. Vapours can form mixtures with air in closed rooms, which can lead to explosion in the presence of ignition sources, even in empty, uncleaned containers. Keep away from sources of ignition and do not smoke. Take measures against electrostatic charging. Cool endangered containers with water.

7.1.3 Advice on general occupational hygiene

Do not eat, drink, or smoke at work. Wear protective gloves to avoid skin contact.

7.2 Conditions for safe storage, including any incompatibilities

7.2.1 Requirements for storage rooms and vessels

Suitable materials for containers: high density polyethylene (HDPE)

Further information on storage conditions: Keep only in the original container in a cool, well-ventilated place away from ignition sources, heat or flames. Protect from direct sunlight.

7.2.2 Hints on storage assembly

Not specified

7.2.3 Further information on storage conditions

Not specified

7.2.4 Storage class

Storage class (TRGS 510): 3

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

0

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Technical measures and the application of appropriate working methods take precedence over the use of personal protective equipment. Ensure good ventilation. This can be achieved by local exhaust or general exhaust air.

8.2.2 General protection and hygiene measures

Do not inhale gases / vapors / aerosols. Avoid contact with skin, eyes, clothing. Avoid exposure - obtain special instructions before use. The usual precautionary measures are to be observed when

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handling chemical building materials. Wearing closed work clothing is recommended. When using do not eat, drink or smoke. Wash hands and / or face before breaks and at the end of work. After work, take care of skin cleansing and skin care. Gloves must be checked regularly and before use. They should be replaced if necessary (eg small leaks).

8.2.3 Respiratory protection

Use respiratory protection if ventilation is insufficient. Combination filter for organic, inorganic, acidic inorganic and basic gases / vapors (for example EN 14387 type ABEK).

8.2.4 Skin protection

Suitable chemical-resistant protective gloves (EN 374) even with prolonged, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time according to EN 374): for example, nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm), etc. Due to the large variety of types, the manufacturer's instructions for use must be observed.

Body protectors depending on activity and possible exposure, e.g. apron, protective boots, chemical protective suit (according to EN 14605 for splashes or EN ISO 13982 for dust)

8.2.5 Eye / Face protection

Protective goggles with side protection (goggles) (eg EN 166)

8.3 Environmental exposure controls

8.3.1 Air

Information on the limitation and monitoring of environmental exposure can be found in section 6.

8.3.2 Water

Information on the limitation and monitoring of environmental exposure can be found in section 6.

8.3.3 Soil

Information on the limitation and monitoring of environmental exposure can be found in section 6.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties _____	Transparent liquid
Odour _____	Characteristic
Melting point/freezing point _____	Not determined
Initial boiling point/boiling range _____	210,8 °C at 969 hPa
Flash point _____	52°C
Flammability (solid, gas) _____	Not determined
Risk of explosion (EN ISO 16852) _____	Lower explosion limit: 0.5 vol-%, Explosion group: II B
Density _____	0.9 g/cm ³ (20 °C)
Solubility in water _____	Practically insoluble

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Organic solvents _____ 0,0 %
 Solids content _____ Not determined
 Other Information _____ Flammability: 97 °C (ISO 9038)

10 STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions if the regulations / instructions for storage and handling are observed,

Does not act corrosive to metal.

10.2 Chemical stability

The product is stable if the regulations / instructions for storage and handling are observed.

10.3 Possibility of hazardous reactions

The product is stable if the regulations / instructions for storage and handling are observed.

10.4 Conditions to avoid

See MSDS section 7 - Handling and Storage.

10.5 Incompatible materials

Reacts with water, alkaline substances and acids. The reaction takes place with the formation of methanol.

10.6 Hazardous decomposition products

Methanol during hydrolysis. Measurements have shown that at temperatures above approx. 150 °C a small amount of formaldehyde is released by oxidative degradation.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Acute toxicity

oral LD50 > 2000 mg/kg (No mortality or signs of clinically relevant toxicity were observed at the specified dose), Species: Rat, Method: OECD 423, Source: Test report

dermal LD50 > 2000 mg/kg, Species: Rat, Method: OECD 402, Source: Expert judgement

inhalative (aerosol) LC50 > 11.2 mg/l; 4 h (No mortality was observed at this dose), Species: Rat, Method: OECD 403, Source: Test report

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11.1.2 Primary irritant effect

On the skin

No skin irritation (Species: Rabbit, Method: OECD 404, Source: Test report)

At the eye

No eye irritation (Species: Rabbit, Method: OECD 405, Source: Test report)

11.1.3 Sensitisation to the respiratory tract/skin

Skin contact Does not cause skin sensitisation. (Species: Guinea pig, Test system: Maximisation test, Test substance: read-across substance, Method: OECD 406, Source: Test report)

11.1.4 Germ cell mutagenicity

The chemical structure gives no particular suspicion of such an effect. Based on available data, the classification criteria are not met.

11.1.5 Carcinogenicity

The chemical structure gives no particular suspicion of such an effect. Based on available data, the classification criteria are not met.

11.1.6 Reproductive toxicity

The chemical structure gives no particular suspicion of such an effect. Based on available data, the classification criteria are not met.

11.1.7 Other toxicity information

Developmental Toxicity:

The chemical structure gives no particular suspicion of such an effect. Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure):

Based on available data, the classification criteria are not met.

Repeat-dose toxicity and specific target organ toxicity (repeated exposure):

There are no evaluable studies on repeated dose toxicity. Based on available data, the classification criteria are not met.

Aspiration:

No aspiration hazard to be expected.

When used and handled according to specifications, the product does not have any harmful effects to our experience and information. The product has not been tested. The statements on toxicology were derived from the properties of the individual components.

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12 ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

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 data available.

12.6 Other adverse effects

0

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

13.1.1 Recommendation

The national and local legal regulations are to be observed. Remaining quantities are to be disposed of as the substance/product.

13.1.2 Waste codes / waste designations according to EWC / AVV

No waste code number according to the European Waste Catalogue (EWC) can be defined for this product, as only the intended use by the consumer allows an allocation. The waste code number must be determined within the EU in consultation with the disposal company.

13.1.3 Uncleaned packaging

Contaminated packaging should be emptied as best as possible. It can then be recycled after proper cleaning.

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14 TRANSPORT INFORMATION

Not classified as a dangerous good under transport regulations (ADR, RID, ADN, IMDG, IATA/ICAO)

14.1 UN No.

Not applicable

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

Environmentally hazardous: no

14.6 Special precautions for user

0

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

0

15 REGULATORY INFORMATION

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

15.1.1 EU regulations

0

15.1.2 National regulations

Water hazard class (Annex 4 of VwVwS (Germany)): (1) Slightly hazardous to water.

15.1.3 Other regulations, restrictions and prohibition regulations

None known

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15.2 Chemical Safety Assessment

A chemical safety assessment has been carried out for this product in accordance with Regulation (EC) 1907/2006 (REACH).

16 OTHER INFORMATION

16.1 Basics

The information in this document is based on our knowledge at the time of revision. It does not constitute a guarantee of the properties of the product described within the meaning of the statutory warranty regulations.

The provision of this document does not release the purchaser of the product from his responsibility to observe the applicable laws and regulations with regard to the product. This applies in particular to the further distribution of the product or mixtures or articles manufactured from it in other jurisdictions, as well as to third-party property rights. If the described product is processed or mixed with other materials, the information in this document cannot be transferred to the new product manufactured in this way, unless this is expressly mentioned. If the product is repackaged, it is the responsibility of the customer to include the necessary safety-related information.

16.2 Wording of the hazard statements (according to Regulation (EC) No 1272/2008) referred to in sections 2 and 3

Flam. Liq. 2 [H225] - Flammable liquids Category 2: Highly flammable liquid and vapor

Flam. Liq. 3 [H226] - Flammable liquids Category 3: Flammable liquid and vapor

Flam. Sol. 2 [H228] - Flammable solids Category 2: Flammable solid

Met. Corr. 1 [H290] - Substances or compounds corrosive to metals: May be corrosive to metals

Acute Tox. 3 [H301] - Acute toxicity Category 3: Toxic if swallowed

Acute Tox. 4 [H302] - Acute toxicity Category 4: Harmful if swallowed

Asp. Tox. 1 [H304] - Aspiration hazard Category 1: May be fatal if swallowed and enters airways

Acute Tox. 4 [H312] - Acute toxicity Category 4: Harmful in contact with skin

Skin. Corr. IA [H314] - Skin corrosion / irritation Category 1A: Causes severe skin burns and eye damage

Skin. Irrit 2 [H315] - Skin corrosion / irritation Category 2: Causes skin irritation

Skin Sens. 1 [H317] - Skin Sensitization Category 1: May cause an allergic skin reaction

Eye Dam. 1 [H318] - Serious eye damage / eye irritation Category 1: Causes serious eye damage

Acute Tox. 3 [H330] - Acute toxicity Category 3: Fatal if inhaled

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Acute Tox. 3 [H331] - Acute toxicity Category 3: Toxic if inhaled

Acute Tox. 4 [H332] - Acute toxicity Category 4: Harmful if inhaled

STOT SE 3 [H336] - Specific Target Organ Toxicity - Single Exposure Category 3: May cause drowsiness or dizziness

Repr. 2 [H361f] - Suspected of damaging fertility

Aquatic Acute 1 [H400] - Hazardous to the aquatic environment Category 1: Very toxic to aquatic life

Aquatic Chronic 2 [H411] - Chronic Hazardous to the aquatic environment Category 2: Toxic for Aquatic organisms with long-term effects

Aquatic Chronic [H412] - Harmful to aquatic organisms, with long-term effects

Aquatic Chronic [H413] – May cause long-lasting harmful effects to aquatic life

16.3 Abbreviations and acronyms

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

[AGW] Arbeitsplatzgrenzwert

[AwSV] Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

[BGR] Berufsgenossenschaftliche Regel

[BimSchV] Verordnung zur Durchführung des Bundes-Immissionsschutzgesetzes

[CAS] Chemical Abstracts Service

[DIN] Norm des Deutschen Instituts für Normung

[EC] Effektive Konzentration

[EG] Europäische Gemeinschaft

[EINECS] European Inventory of Existing Commercial chemical Substances

[EN] Europäische Norm

[GHS] Globally Harmonized System of Classification and Labelling of Chemicals

[IATA-DGR] International Air Transport Association-Dangerous Goods Regulations

[IBC-Code] Internationaler Code für den Bau und die Ausrüstung von Schiffen zur Beförderung gefährlicher Chemikalien als Massengut

[ICAO-TI] International Civil Aviation Organization-Technical Instructions

[IMDG-Code] International Maritime Code for Dangerous Goods

[ISO] Norm der International Standards Organization

[IUCLID] International Uniform Chemical Information Database

[LC] Letale Konzentration

[LD] Letale Dosis

[log Kow] Verteilungskoeffizient zwischen Oktanol und Wasser

[MARPOL] Maritime Pollution Convention = Übereinkommen zur Verhütung der Meeresverschmutzung durch Schiffe

[OECD] Organisation for Economic Co-operation and Development

[PBT] Persistent, biakkumulierbar, toxisch

[REACH] Registration, Evaluation and Authorisation of Chemicals (Verordnung (EG) 1907/2006)

[RID] Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Ordnung für die internationale Eisenbahnbeförderung gefährlicher Güter)

[SDB] Sicherheitsdatenblatt

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[STOT] Specific target organ toxicity (spezifische Zielorgantoxizität)

[TRGS] Technische Regeln für Gefahrstoffe

[UN] United Nations (Vereinte Nationen)

[VOC] Volatile Organic Compounds (flüchtige organische Verbindungen)

[vPvB] very persistent and very bioaccumulative (sehr persistent und sehr bioakkumulierbar)

[VwVwS] Verwaltungsvorschrift wassergefährdender Stoffe

[WGK] Wassergefährdungsklasse