

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



CalciPro®

Version 1.9 / REG_EU
Revision Date: 09.06.2020

Specification: 200063
Material no.:

Date of first issue: 18.10.2013
Print Date: 05.01.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : CalciPro®
Registration number : if available listed in Chapter. 3
Unique Formula Identifier (UFI) : 1Y70-D0VE-A00U-KQ01

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

Use of the Substance/Mixture : Metallurgical use

1.3 Details of the supplier of the safety data sheet

Company : Alzchem Trostberg GmbH
Dr.-Albert-Frank-Str. 32
83308 Trostberg, Germany
Telephone : +49 8621 86-3351
E-mail address of person responsible for the SDS : alz-pst@alzchem.com

1.4 Emergency telephone number

Emergency telephone number : +49 8621 86-2776
Alzchem Trostberg GmbH, Fire Brigade

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Substances and mixtures, which in contact with water, emit flammable gases, Category 1	H260: In contact with water releases flammable gases which may ignite spontaneously.
Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity - single exposure, Category 3	H335: May cause respiratory irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms :



Signal word : Danger

Hazard statements : H260 In contact with water releases flammable gases which may ignite spontaneously.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

Precautionary statements : **Prevention:**
P223 Do not allow contact with water.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P335 Brush off loose particles from skin.
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.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry powder or dry sand to extinguish.

2.3 Other hazards

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out
Note alkalinity of product.
Contact with water liberates toxic, extremely flammable gas.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
calcium carbide	75-20-7 200-848-3 006-004-00-9 01-2119494719-18-0002	Water-react. 1; H260 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	68 - 76

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calcium oxide	1305-78-8 215-138-9 01-2119475325-36-0000	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	12 - 16
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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Seek medical advice in case of symptoms caused by eye or skin contact, inhalation or swallowing.
Remove contaminated or soaked clothing immediately and dispose of safely.
- If inhaled : Move to fresh air.
- In case of skin contact : Before washing use a dry brush to remove dust from skin.
Wash off with plenty of water and soap immediately.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
Remove contact lenses if this can be easily done.
Immediate further treatment in ophthalmic hospital/ ophthalmologist.
- If swallowed : Rinse out mouth.
Drink 1 or 2 glasses of water.
Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Nausea
Vomiting
Irritation of skin and mucous membranes
- Risks : In contact with aqueous liquids, the product hydrolyses to flammable gases and strong alkaline hydroxide.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Do NOT induce vomiting.
In case of the intake of large amounts, pump out stomach ensuring to avoid reinhalation.
In case of skin irritation, use corticoid containing external preparations.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Dry sand
Dry powder

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Unsuitable extinguishing media : Foam
Water

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : carbon dioxide
calcium oxide

5.3 Advice for firefighters

Special protective equipment for firefighters : In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

Further information : In case of fire, remove the endangered containers and bring to a safe place, if this can be done safely.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment; see section 8.
Keep out unprotected persons.
Avoid all contact with water and moisture.
Keep away from sources of ignition - No smoking.

6.2 Environmental precautions

Environmental precautions : Do not allow substance to enter soil, bodies of water or sewage canals.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Pick up mechanically and collect in a suitable container. Avoid formation of dust.
Keep containers open; do not seal hermetically.
Keep away from water and humidity.

6.4 Reference to other sections

For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Provide sufficient ventilation and exhaust at the workplace.
Avoid dust formation.
Avoid deposition of dust.
Protect against humid air and water.
Handle and open container with care.

Advice on protection against : Contact with water liberates extremely flammable gases. Pro-

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fire and explosion : tect against humid air and water. Keep away from combustion sources such as sparks, flames and unprotected light sources Use only explosion-proof equipment. No sparking tools should be used.

Hygiene measures : Do not breathe vapours/dust. Contact with skin, eyes and clothes must be strictly avoided Remove contaminated or saturated clothing immediately and dispose of safely. Before reuse remove dust in a dry manner, then wash. Keep working clothes separately. Do not eat, drink or smoke while working. Wash hands, and/or face before breaks and when workday is finished. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in a dry place. Protect from moisture. recommended: cover with dry inert gas.

Advice on common storage : Incompatible with acids and bases. Incompatible with oxidizing agents. Never allow product to get in contact with water during storage.

Packaging material : Suitable material: Mild steel, Aluminium
Unsuitable material: Copper

7.3 Specific end use(s)

Specific use(s) : We are unaware of any specific end uses which go beyond the data reported in Section 1.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
calcium oxide	1305-78-8	TWA (Respirable fraction)	1 mg/m ³	2017/164/EU
Further information: Indicative				
		STEL (Respirable fraction)	4 mg/m ³	2017/164/EU

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

Hand protection

Material : Nitrile rubber, Recommendation: Camatril 730

Break through time : 480 min

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Glove thickness : 0,4 mm
Directive : DIN EN 374
Manufacturer : Kächele-Cama Latex GmbH (KCL), Germany

Material : Chloroprene, Recommendation: Camapren 722
Break through time : 480 min
Glove thickness : 0,6 mm
Directive : DIN EN 374
Manufacturer : Kächele-Cama Latex GmbH (KCL), Germany

Remarks : When handling hot material, use heat resistant gloves.

Skin and body protection : Protective clothing
If intensive contact with the hazardous material cannot be avoided with certainty, order (depending on the hazard involved) additional protective measures for example chemical protective suit.
DuPont™ Tyvek® Classic Xpert (white)

Respiratory protection : Use suitable respiratory protection in the presence of dust.
Dust protection mask in accordance with EN 149 FFP2

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Solid or in cored wire

Colour : grey, brown

Odour : like garlic

pH : Not applicable Upon release of the filler: Aqueous solutions are strongly alkaline.

Melting point/range : 2300 °Ccalcium carbide technical

Flash point : Not applicable

Flammability (solid, gas) : contact with water liberates highly flammable gases

Upper explosion limit / upper flammability limit : ca. 99,9 %(V)
Acetylene

Lower explosion limit / Lower flammability limit : 2,3 %(V)
Acetylene

Density : 2,22 g/cm³
calcium carbide technical

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Solubility(ies)
Water solubility : partial decomposition by hydrolysis

9.2 Other information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Under influence of humidity and water:
Formation of acetylene (danger of fire and explosion).

10.4 Conditions to avoid

Conditions to avoid : Exposure to moisture
Keep away from heat and sources of ignition.

10.5 Incompatible materials

Materials to avoid : humid air and water
Acids
Bases
methanol
hydrogen chloride (HCl)
Oxidizing agents
Copper
silver
Heavy metal salts

10.6 Hazardous decomposition products

Upon hydrolysis:
hydrogen
Acetylene
calcium hydroxide
Trace amounts of phosphine.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

calcium carbide:

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Acute oral toxicity : Remarks: Acute oral and dermatological toxicity examinations were not carried out due to the pH value.
Own test result.
IUCLID

Acute inhalation toxicity : Assessment: Based on available data, the classification criteria are not met.
Remarks: IUCLID

calcium oxide:

Acute oral toxicity : LD50 (rat): > 2000 mg/kg
Assessment: Based on available data, the classification criteria are not met.
Remarks: IUCLID

Acute inhalation toxicity : Remarks: no data available
IUCLID

Acute dermal toxicity : LD50 (Rabbit): > 2500 mg/kg
Assessment: Based on available data, the classification criteria are not met.
Remarks: IUCLID

Skin corrosion/irritation

Product:

Assessment : Causes skin irritation.

Components:

calcium carbide:

Assessment : Irritating to skin.
Remarks : IUCLID

calcium oxide:

Assessment : Irritating to skin.
Remarks : IUCLID

Serious eye damage/eye irritation

Product:

Assessment : Causes serious eye damage.

Components:

calcium carbide:

Assessment : Risk of serious damage to eyes.
Method : OECD Guide-line 405
Remarks : IUCLID

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calcium oxide:

Assessment : Risk of serious damage to eyes.
Remarks : IUCLID

Respiratory or skin sensitisation

Components:

calcium carbide:

Assessment : Based on available data, the classification criteria are not met.
Remarks : IUCLID

calcium oxide:

Assessment : Based on available data, the classification criteria are not met.
Remarks : IUCLID

Germ cell mutagenicity

Components:

calcium carbide:

Germ cell mutagenicity- Assessment : Based on available data, the classification criteria are not met.
Remarks: IUCLID

calcium oxide:

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test
Remarks: IUCLID

Carcinogenicity

Components:

calcium carbide:

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.
Remarks: IUCLID

calcium oxide:

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.
Remarks: IUCLID

Reproductive toxicity

Components:

calcium carbide:

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.
Remarks: IUCLID

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calcium oxide:

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.
Remarks: IUCLID

STOT - single exposure

Product:

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Components:

calcium carbide:

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.
Remarks : IUCLID

calcium oxide:

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.
Remarks : IUCLID

STOT - repeated exposure

Components:

calcium carbide:

Assessment : Based on available data, the classification criteria are not met.
Remarks : IUCLID

calcium oxide:

Assessment : Based on available data, the classification criteria are not met.
Remarks : IUCLID

Aspiration toxicity

Components:

calcium carbide:

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

calcium oxide:

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

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Remarks : IUCLID

Further information

Product:

Remarks : No additional toxicological data are available.

Components:

calcium carbide:

Remarks : Under physiological conditions, complete hydrolysis. The following toxicological data refer to calcium hydroxide. It is not possible to carry out toxicological examinations because of the high level of reactivity.

SECTION 12: Ecological information

12.1 Toxicity

Components:

calcium carbide:

Toxicity to fish : LC50 (Oncorhynchus mykiss): > 50 mg/l
Exposure time: 96 h
Method: OECD 203
Remarks: Own test result.

NOEC (Oncorhynchus mykiss): 50 mg/l
Exposure time: 96 h
Method: OECD 203
Remarks: Own test result.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4,62 mg/l
Exposure time: 48 h
Method: OECD 202 part 1
Remarks: Own test result.

NOEC (Daphnia magna (Water flea)): 2,22 mg/l
Exposure time: 48 h
Method: OECD 202 part 1
Remarks: Own test result.

Toxicity to algae/aquatic plants : ErC50 (Scenedesmus spec.): 46,5 mg/l
Exposure time: 72 h
Method: OECD 201
Remarks: Own test result.

NOEC (Scenedesmus spec.): 5,6 mg/l
Exposure time: 72 h
Method: OECD 201

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Remarks: Own test result.

calcium oxide:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 1070 mg/l
Exposure time: 96 h
Test Type: LC50
Remarks: IUCLID

12.2 Persistence and degradability

Components:

calcium carbide:

Biodegradability : Result: readily biodegradable
Remarks: IUCLID

calcium oxide:

Biodegradability : Remarks: Readily biodegradable.
Literature, IUCLID

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

12.6 Other adverse effects

Product:

Environmental fate and pathways : Under ambient conditions quick hydrolysis, Reduction or decomposition occurs.

Additional ecological information : The product may be harmful to aquatic organisms by pH-shift. No further ecotoxicological data are available.

Components:

calcium carbide:

Environmental fate and pathways : Under ambient conditions quick hydrolysis, Reduction or decomposition occurs.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Must be brought to an adequate waste treatment facility, in conformity with applicable waste disposal regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Contaminated packaging : Return reusable containers to supplier.

SECTION 14: Transport information

14.1 UN number

ADR : UN 1402
RID : UN 1402
IMDG : UN 1402
IATA (Cargo) : UN 1402
IATA (Passenger) : UN 1402
Not permitted for transport

14.2 UN proper shipping name

ADR : CALCIUM CARBIDE
RID : CALCIUM CARBIDE
IMDG : CALCIUM CARBIDE
IATA (Cargo) : Calcium carbide
IATA (Passenger) : CALCIUM CARBIDE
Not permitted for transport

14.3 Transport hazard class(es)

ADR : 4.3
RID : 4.3
IMDG : 4.3
IATA (Cargo) : 4.3
IATA (Passenger) : Not permitted for transport

14.4 Packing group

Remarks : Keep dry: vigorous reaction with water

ADR
Packing group : I

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Classification Code : W2
Hazard Identification Number : X423
Labels : 4.3
Tunnel restriction code : (B/E)
Remarks : Keep dry: vigorous reaction with water

RID

Packing group : I
Classification Code : W2
Hazard Identification Number : X423
Labels : 4.3
Remarks : Keep dry: vigorous reaction with water

IMDG

Packing group : I
Labels : 4.3
EmS Code : F-G, S-N
Remarks : Keep separate from acids.
Keep dry: vigorous reaction with water

IATA (Cargo)

Packing instruction (cargo aircraft) : 487
Packing group : I
Labels : Dangerous When Wet
Remarks : ERG-Code 4W
Keep dry: vigorous reaction with water

IATA (Passenger)

Remarks : Not permitted for transport

Remarks : ERG-Code 4W

14.5 Environmental hazards

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

Remarks : Keep dry: vigorous reaction with water

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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SECTION 15: Regulatory information

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

15.2 Chemical safety assessment

No substance safety assessment is required for this product.

SECTION 16: Other information

Full text of H-Statements

- H260 : In contact with water releases flammable gases which may ignite spontaneously.
H315 : Causes skin irritation.
H318 : Causes serious eye damage.
H335 : May cause respiratory irritation.

Full text of other abbreviations

- Eye Dam. : Serious eye damage
Skin Irrit. : Skin irritation
STOT SE : Specific target organ toxicity - single exposure
Water-react. : Substances and mixtures, which in contact with water, emit flammable gases
2017/164/EU : Commission Directive (EU) 2017/164 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU
2017/164/EU / STEL : Short term exposure limit
2017/164/EU / TWA : Limit Value - eight hours

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No

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Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

REG_EU / EN