



Calumex® SC-A, Calumex® XT-20

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830)

Date of issue: 08-07-2020 Revision date: 07-07-2020 Supersedes: 18-07-2018 Version 5.0

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

1.1. Product identifier

Product form	:	Mixture
Substance name	:	Calumex® SC-A, Calumex XT-20®
Chemical name	:	(Non-crystalline) Amorphous Calcium Aluminate
Product group	:	Trade product

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

1.2.1. Relevant identified uses

Main use category	:	Industrial use
Use of the substance/mixture	:	Used as an accelerator to Portlandcement based systems. Yields extremely fast setting times and high early strengths.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

CALTRA Nederland BV
Communicatieweg 21
3640 AH Mijdrecht - The Netherlands
T +31 297 289 340 - F +31 297 289 350
qc@caltra.com - www.caltra.com

1.4. Emergency telephone number

Emergency number : +31 297 289 340 (8:00 - 17:00)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

None

2.2. Label elements

Labelling according to Regulation (EC) No. 1272.2008 [CLP]

Classification according to 1272/2008/EC	:	Not classified
Applicable exemptions	:	Exempted from REACH Registration (Annex V§10)
Signal word (CLP)	:	None
Component(s)	:	266-045-5 Cement, alumina, chemicals
Hazard statements (CLP)	:	N/A
Precautionary statements (CLP)	:	P232 - Protect from moisture. P261 - Avoid breathing dust. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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P302+P352 - IF ON SKIN - Wash with plenty of water.

Although this product does not require a hazard warning label, we recommend that the safety advise should always be observed when working with the product.

Additional markings : None

The labelling as mentioned above is valid for distribution to industrial user.

2.3. Other hazards

Depending on the applied concentration, the aqueous solution of this material, specifically when combined with ordinary Portlandcement (CAS 65997-15-1) causes irritation or burns of eyes, skin and mucous membranes.

Risk of damage to eyes.

Dust is irritating to respiratory system.

Danger of mechanical damage to cornea.

This product contains no substances which are assessed as PBT or vPvB.

This product contains no substances which are listed as SVHC substances in Annex XIV of 1907/2006

SECTION 3: Composition/information on ingredients

3.1. Substances

N/A

3.2. Mixtures

Comments : * REACH exempted (Annex V§10)
Additional non hazardous components excluded, to protect confidential info.

Name : Calumex SC-A®, Calumex XT-20®

Name	Product identifier	% w/w (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Cement, alumina, chemicals	(CAS-No.) 65997-16-2 (EC_No.) 266-045-5 (REACH-no) *	<100	N/A

Additional information:

Contains no measurable amounts of crystalline silica (such as quartz, tridymite or cristobalite). In compliance with REACH, Annex XVII, the water-soluble chromium VI content is always under 2ppm (0,0002 Ma. %).

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	:	In case of any doubt or persistent symptoms, always consult a physician. If medical advice is needed, have product container or label at hand.
First-aid measures in case of inhalation	:	Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
First-aid measures after skin contact	:	Before washing use a dry brush to remove dust from skin. Wash off with soap and water. Consult a physician if necessary.
First-aid measures after eye contact	:	Rinse immediately with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	:	Consult a physician. Do NOT induce vomiting. Rinse mouth.

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

Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Risk of infection of the lungs after prolonged inhalation of dust particles. Depending on concentration, the aqueous solution of these products, specifically when combined with ordinary Portlandcement (CAS 65997-15-1), causes irritation or burns of eyes, skin and mucous membranes.



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

Depending on concentration, the aqueous solution of these products, specifically when combined with ordinary Portlandcement (CAS 65997-15-1), causes irritation or burns of eyes, skin and mucous membranes.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry chemical, CO₂, or water spray or regular foam. Making extinguishing agents environment-friendly.

5.2. Special hazards arising from the substance or mixture

Fire hazard : The product is not flammable.
Explosion hazard : Not explosive.

5.3. Advise for firefighters

Protection during firefighting : Do not enter fire are without proper protective equipment, including respiratory protection.
Other information : All extinguishing media allowed. Does react with water to a hard, inert mass.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Wear personal protective equipment. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment.

6.1.1. For non-emergency personnel

Emergency procedures : Avoid breathing dust, vapours. Avoid contact with skin and eyes. Evacuate unnecessary personnel.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Sweep up spilled material without making dust. Place in a suitable container for disposal in accordance with the waste regulations.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid breathing dust, vapours. Avoid contact with skin and eyes. Wear personal protective equipment. Ensure good ventilation of the work station.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a closed container. Avoid contact with water. Store under dry conditions. Keep cool. Keep out of reach of children. Do not store together with strong acids and oxidising agents.



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7.3. Specific end use(s)

No supplementary information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Provide adequate ventilation.

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): e.g. nitrile rubber (≥ 0.4 mm), chloroprene rubber (≥ 0.5 mm), butyl rubber (≥ 0.7 mm) and others. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Use eye protection according to EN 166, designed to protect powders and dusts. Chemical goggles or safety glasses.

Skin and body protection:

Recommendation: Dustproof clothing according to Regulation EN ISO 13982. Protection for solid particles.

Respiratory protection:

In the event of exposure to high concentrations of dust or vapour: Dust production: dust mask with filter type P3. EN 405

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

Other information:

If on skin, take off contaminated clothing. Keep away from food, drink and animals feedingstuffs. Avoid contact with skin and eyes. Wash hands before breaks and after work.

SECTION 9: Physical and chemical properties

9.1. Information on basic and chemical properties

Physical state	:	Solid.
Appearance	:	Powder.
Colour	:	White / Greyish
Odour threshold	:	None. Odourless.
pH (10% Aqueous solution)	:	10,5 - 11,5
Relative evaporation rate (butylacetate=1)	:	No data available.
Melting point	:	1290 - 1350 °C
Freezing point	:	No data available.
Boiling point	:	No applicable, the melting point is at standard atmospheric conditions above 1250°C
Flashpoint	:	Not applicable, it is not a liquid.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	Not applicable, does not contain inorganic peroxide.
Flammability (solid, gas)	:	Not applicable.



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Vapour pressure	:	Not applicable.
Relative vapour density at 20 °C	:	No data available.
Relative density	:	2800 - 3000 kg/m ³
Density	:	2,9 g/cm ³
Solubility in water at 20 °C	:	Moderately soluble (0,1 - 1,5 g/l)
Log Pow	:	No data available.
Viscosity, kinematic	:	No data available.
Viscosity, dynamic	:	Not applicable, it is not a liquid.
Explosive properties	:	Not applicable.
Oxidising properties	:	Not applicable.
Explosives limits	:	Not applicable, it is not a flammable gas.

9.2. Other information

Other properties : Partition coefficient n-octanol/water. Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable in use and storage conditions as described in item 7.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

Water, humidity.

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified
Skin corrosion/irritation	:	Depending on concentration, the aqueous solution causes irritation or burns of skin.
Serious eye damage/irritation	:	Dry powder may cause eye irritation with susceptible people. Depending on concentration, the aqueous solution causes irritation or burns of eyes.
Respiratory or skin sensitisation	:	None
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	:	Not water endangering. May cause pH changes in aqueous ecological systems.
Acute aquatic toxicity	:	Not classified
Chronic aquatic toxicity	:	Not classified



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12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Result of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (IoW) code	: 10 13 00 - wastes from manufacture of cement, lime and plaster and articles and products made from them.

SECTION 14: Transport information

In accordance with ADR / IATA / IMDG / RID

ADR	IMDG	IATA	RID
14.1. UN number			
Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available			

14.6. Special precautions for user

- Over land transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Rail transport

Not applicable

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

Not applicable



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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

47. Chromium VI compounds	Calumex® SC-A, Calumex® XT-20
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Calumex® SC-A, Calumex® XT-20 is not on the REACH Candidate List

Calumex® SC-A, Calumex® XT-20 is not on the REACH Annex XIV List

Other information, restriction and prohibition regulations : The substance does not require registration according to Regulation (EC) No 1207/2006 [REACH]. * REACH exempted (Annex V§10). 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 of the classification, packaging and labelling of substances, 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 end 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.

15.1.2. National regulations

No additional information available

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for the substance or mixture by the supplier

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Comments
	Revision date	Modified	
	Version	Modified	



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Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

Data sources	:	ECHA (European Chemicals Agency). Manufacturer/Supplier.
Other information	:	DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full tekst of use descriptors

AC4	Stone, plaster, cement, glass and ceramic articles
PROC19	Manual activities involving hand contact
SU13	Manufacture of other non-metallic mineral products, e.g. plasters, cement.
SU19	Building and construction work

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.