



SAFETY DATA SHEET

1: IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: HIGH BELITE CSA CEMENT

Application: Dry mortars

Company: Tangshan Polar Bear Building Materials Co., Ltd.

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2: COMPOSITION/INFORMATION ON PRODUCT

Composition: Calcium silicate, Calcium sulphoaluminate.

CAS No.: 1344-95-2, 12004-14-7.

3: HAZARDS IDENTIFICATION

Hazard class	Hazard category	Classification procedure
Skin irritation	2	On the basis of test data
Serious eye damage/ eye irritation	1	On the basis of test data
Skin sensitisation	1	On the basis of literature survey
Specific target organ toxicity single exposure respiratory tract irritation	3	On the basis of literature survey

Hazard statements

H318: Causes serious eye damage

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H335: May cause respiratory irritation

3.1 According to Directive 1999/45/EC:

Xi: Irritant

R37/38: Irritating to respiratory system and skin

R41: Risk of serious damage to eyes

R43: May cause sensitisation by skin contact

Calcium SulfoAluminate dust may cause irritation of the respiratory system.

When Calcium SulfoAluminate reacts with water, for instance when making concrete or mortar, or

when the Calcium SulfoAluminate becomes damp, a strong alkaline solution is produced? Due to the high alkalinity, wet Calcium SulfoAluminate may provoke skin and eye irritation.

It may also cause an allergic reaction in some individuals due to the soluble Cr(VI) content.

Calcium SulfoAluminate is naturally low in soluble chromium VI [$<2\text{mg/kg}$ (0.0002%)] according to legislation specified under Section 15.

3.2 Label elements:

According to Regulation (EC) No 1272/2008

[As of 1 December 2012 or as of the date as of which the common cement is classified according to the CLP Regulation]



DANGER

H318: Causes serious eye damage

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H335: May cause respiratory irritation

P102: Keep out of reach of children

P280: Wear protective gloves/protective clothing/eye protection/face protection

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician

P302+P352+P333+P313: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention

P261+P304+P340+P312: Avoid breathing dust/fume/gas/mist/vapours/spray. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

P501: Dispose of contents/container to an approved waste disposal.

Supplemental information

Skin contact with wet cement, fresh concrete or mortar may cause irritation, dermatitis or burns.

May cause damage to products made of aluminium or other non-noble metals.

3.3 Other hazards:

Calcium SulfoAluminate does not meet the criteria for PBT or vPvB in accordance with Annex XIII

of REACH (Regulation (EC) No 1907/2006).

4: FIRST AID MEASURES

Eyes: Irrigate immediately with copious quantities of water for several minutes. Obtain medical attention urgently.

Skin: Wash immediately with copious quantities of water. Remove contaminated clothing immediately. Obtain medical advice if skin disorders develop.

Inhalation: Remove from exposure, rest and keep warm and obtain medical attention urgently.

Ingestion: Wash out mouth with water. Do not induce vomiting. Obtain medical attention.

5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: None, not Flammable

Special Exposure Hazards: None.

Special Protective Equipment: None.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear rubber boots in addition to the recommended protective clothing.

Environmental Precautions: Prevent entry into drains, sewers and water courses

Decontamination Procedures: Avoid the creation of dust in atmosphere. Gather into containers.

Residues may be flushed to drain with large volumes of water.

7: HANDLING AND STORAGE

Handling: Avoid creating dust. Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid skin and eye contact.

Storage: Store in cool, dry area.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

Substance: 8 Hour TWA STEL Source/Other Information

Total inhalable dust: 10mg/m³ EH 40

respirable dust: 4mg/m³

Engineering Control Measures Atmospheric levels of dust must be maintained within the Occupational Exposure Limit. Where mechanical methods are inadequate or impractical, appropriate personal protective equipment must be used.

Personal Protective Equipment: Impervious gloves (eg PVC). Goggles/Safety Glasses. Approved dust mask. Change contaminated clothing immediately and clean before re-use.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Colour: Grey/LIGHT GREY

Odour: Odourless

Ph: 10.0

Boiling Point/Range(0c): Not Applicable.

Melting Point/Range(0c): Not Applicable

Flash Point(0c): None

Autoflammability(0c): Not Determined

Explosive Properties(%): Not Known

#Relative Density(at 200c): 1.50

Water Solubility: Insoluble

10: STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Exposure to air. Contamination with water.

#Materials to Avoid: Strong acids.

Hazardous Decomposition Products: None

11: TOXICOLOGICAL INFORMATION

Health Effects

On Eyes: Irritating and may injure eye tissue if not removed promptly.

On skin: irritation. See "chronic" effects.

By inhalation: Irritating to respiratory system. Inflammation of the nasal mucous membrane by exposure to cement dust.

By ingestion: May cause irritation of mouth, throat and digestive tract.

Chronic: Cause both irritant and allergic contact dermatitis. Prolonged skin contact can result in chemical burns.

12: ECOLOGICAL INFORMATION

Environmental Assessment: Little detailed information is available on the ecological effects of this product, but its overall environmental impact is not regarded as significant.

Mobility: Insoluble in water.

Persistence and Degradability: Not readily biodegradable.

Bio accumulative potential: Not expected to be bio accumulative.

Eco toxicity: Not expected to be eco toxic to fish/daphnia/algae.

13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.

Unused Product: Dispose of in an approved manner.

Used/Contaminated product: As for Unused product.

Packaging: The method of disposal must be acceptable to the local authority.

14: TRANSPORT INFORMATION

This product is not classified as dangerous for transport.

IATA CLASSIFICATION: product is not classed as a dangerous good.

IMDG CLASSIFICATION: product is not classed as a dangerous good.

ADR/RID: product is not classed as a dangerous good.

15: REGULATORY INFORMATION

#Symbol(s): Xi

Risk Phrases: Irritating to eyes, respiratory system and skin.

Safety Phrases: Do not breathe dust

Avoid contact with skin and eyes

In case of contact with eyes, irrigate with plenty of water and seek medical advice

Wear suitable protective clothing, gloves and eye/face protection.

16: OTHER INFORMATION

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet.

The product should not be used other than for the stated application or applications without seeking advice from Tangshan Polar Bear Building Materials Co. Ltd.. If this product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet. It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken. This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation. Further copies of this Safety Data Sheet may be obtained from Tangshan Polar Bear Building Materials Co. Ltd.