

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Revision date 26-Sep-2023 Revision Number 6

Product identifier

Product Name CALCIUM ALUMINATE CEMENT

Other means of identification

Product Code(s) 993

Synonyms CA-14 M, CA-14 S, CA-14 W, CA-25 C, CA-25 M, CA-25 R, CA-270, CA-470 TI, CA-670,

CA-680, CAC DISCHARGE, CARO WHITE, CA-SYNC

Recommended use of the chemical and restrictions on use

Recommended use Hydraulic binder. Used for production of refractory concretes and mortars and as ingredient

of building chemistry products

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Address Manufacturer Address

Almatis, Inc.
P.O. Box 300
4701 Alcoa Road
Bauxite, AR 72022
USA

Almatis B.V.
Theemsweg 30
NL-3197 KM Botlek Rt
The Netherlands
Phone: +31 181270129

Telephone: +1 501-776-4677

Emergency telephone number

Emergency Telephone Argentina: +54 11 5219 8871

Classification

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Hazard statements

Precautionary Statements - Prevention

Not applicable

Precautionary Statements - Response

Not applicable

Precautionary Statements - Storage

Keep in a dry place

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

Other information

No information available.

Substance

Not applicable.

Mixture

Common name Calcium Aluminate cement.

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CA-680, CAC DISCHARGE, CARO WHITE, CA-SYNC.

Chemical name	CAS No	Weight-%	Trade secret
Calcium aluminate	65997-16-2	40-100	*
Aluminum oxide	1344-28-1	0-50	-

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

Description of first aid measures

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash skin with soap and water.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms Mild eye irritant. Mild skin irritant.

Effects of Exposure No information available.

Indication of any immediate medical attention and special treatment needed

surrounding environment.

Large FireCAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media No information available.

Specific hazards arising from the Avoid generation of dust. Not flammable.

chemical

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid generation of dust. Do not breathe dust.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Prevent dust cloud.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Pick up and transfer to properly

labeled containers.

Reference to other sections Personal protective equipment [PPE]. Disposal. Advices on safe handling.

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid generation of

dust. Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Aluminum oxide	TWA: 1 mg/m³ respirable	TWA: 15 mg/m³ total dust	-
1344-28-1	particulate matter	TWA: 5 mg/m ³ respirable	
		fraction	
		(vacated) TWA: 10 mg/m³ total	
		dust	
		(vacated) TWA: 5 mg/m ³	
		respirable fraction	

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection No special protective equipment required.

Skin and body protection Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Information on basic physical and chemical properties

Physical state Solid

Appearance White to off-white Powder

Color White to off-white

Odor None

Odor threshold No information available

Remarks • Method Property Values 10.5-11.0 aqueous solution Hq pH (as aqueous solution) None known

Melting point / freezing point 1650 - 1820 °C / °F

Initial boiling point and boiling rangeNo data available None known No data available Flash point None known **Evaporation rate** No data available None known No data available None known **Flammability** Flammability Limit in Air None known

No data available Upper flammability or explosive

limits

No data available Lower flammability or explosive

limits

Vapor pressure No data available None known

Relative vapor density No data available

Relative density No data available None known

No data available insoluble Water solubility

Solubility(ies) slightly soluble

Partition coefficient No data available None known - / °F **Autoignition temperature** Does not ignite None known

Decomposition temperature

No data available None known Kinematic viscosity **Dynamic viscosity** No data available None known

Other information

Explosive properties No information available **Oxidizing properties** No information available Softening point No information available Molecular weight No information available No information available **VOC** content

Liquid Density 2.8-3.3 g/cm3 **Bulk density** 750-1100 kg/m³

None under normal use conditions. None under normal processing. Reactivity

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions Contact with water generates heat.

None under normal processing. **Hazardous polymerization**

Conditions to avoid Avoid generation of dust. Avoid accumulation of airborne dust.

Incompatible materials Ammonium salts.

Hazardous decomposition products None under normal use conditions.

Information on likely routes of exposure

Inhalation May cause irritation.

Eye contact Dust contact with the eyes can lead to mechanical irritation. Mild eye irritation.

Skin contact Causes mild skin irritation.

Ingestion No known hazard by swallowing.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity .

Numerical measures of toxicity

No information available

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 5,005.00 mg/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Aluminum oxide	> 5000 mg/kg (Rat)	-	-
1344-28-1			

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationNo information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

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STOT - repeated exposureNo information available.

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

Ecotoxicity Not considered to be harmful to aquatic life.

Persistence and degradability Not readily biodegradable.

Bioaccumulation There is no data for this product.

Mobility No information available.

Other adverse effects No information available.

Disposal methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO (air) Not regulated

IATA Not regulated

IMDG Not regulated

International Inventories

TSCA Complies.

DSL/NDSL Listed on DSL. EINECS/ELINCS Complies.

ENCS Does not comply.

IECSCComplies.KECLComplies.PICCSDoes not comply.AllCComplies.

NZIoC Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Aluminum oxide - 1344-28-1	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Aluminum oxide	X	X	X
1344-28-1			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

NFPA Health hazards 0 Flammability 0 Instability 0 Special hazards - Health hazards 0 Flammability 0 Physical hazards 0 Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Prepared By Product Safety Department

Almatis B.V.
Theemsweg 30
3197 KM Botlek Rt
The Netherlands
+31-181-270124
info@almatis.com.
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Disclaimer

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End of Safety Data Sheet

US SDS version information - AGHS

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