



11555 Medlock Bridge Road, Suite 100, Johns Creek, GA 30097, USA

T: +1.888.658.1221 F: 1.678.619.2020

E: info@ereztech.com W: https://ereztech.com

SAFETY DATA SHEET

Section 1. Identification

Calcium borate **Product Name:**

Solid **Product Type:**

12007-56-6 **CAS Number: Product Number:** CA7566

Recommended Use: Laboratory chemicals, synthesis of substances.

Product Manufacturer: Ereztech LLC

11555 Medlock Bridge Road, Suite 100

Johns Creek, GA 30097

Product Information: (888) 658-1221

In Case of an Emergency: CHEMTREC: 1-800-424-9300 (USA);

> +1 703-527-3887 (International); CCN836180 *** Contact manufacturer for all non-emergency calls.

Section 2. Hazards Identification

White crystals, odor not determined. Appearance/Odor:

REPRODUCTIVE TOXICITY - Category 1B, H360 Classification:

GHS Label Elements Hazard Pictograms:



DANGER Signal Word:

Hazard Statements: H360: May damage fertility or the unborn child.

Precautionary Statements

Prevention: P203: Obtain, read and follow all safety instructions before use.

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

face protection/hearing protection.

P318: IF exposed or concerned, get medical advice. Response:

P405: Store locked up. Storage:

P501: Dispose of contents/container in accordance with federal, **Disposal:**

state and local regulations.

Section 2. Hazards Identification

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

Hazards Not Otherwise Classified (HNOC):

None identified.

Section 3. Composition/Information on Ingredients

Mono-constituent. Substance Type: Calcium tetraborate. Synonyms:

Formula: CaB₄O₇

Molecular Weight: 195.32 g/mol. 234-511-7 EC No.:

Component Name	%	CAS Number
<u>Calcium borate</u>	≥ 98	12007-56-6

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First Aid Measures

Description of Necessary First Aid Measures

Move out of dangerous area. If unconscious, place in recovery position and get **General Advice:**

> medical help immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical help if symptoms develop or if you feel unwell. Show this safety data sheet to the doctor in attendance.

Immediately flush eyes with plenty of water, occasionally lifting the upper and **Eye Contact:**

lower eyelids. Check for and remove any contact lenses if easy to do. Continue

rinsing. Get medical help if eye irritation develops and persists.

Take off contaminated clothing and shoes immediately. Wash off contaminated **Skin Contact:**

skin with plenty of water. Get medical help if irritation develops and persists, if

symptoms develop or if you feel unwell.

Inhalation: Remove person to fresh air and keep comfortable for breathing. If not

breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial

respiration or oxygen by trained personnel. Get medical help if symptoms

develop or if you feel unwell.

Rinse mouth, and then give water to drink (two glasses at most). Do NOT Ingestion:

induce vomiting. Remove dentures if any. If vomiting occurs, the head should

be kept low so that vomit does not enter the lungs.

Section 4. First Aid Measures

Ingestion (cont.): Never give anything by mouth to an unconscious person. Get

medical help if symptoms develop or if you feel unwell.

Most Important Symptoms/Effects, Acute And Delayed Potential Acute Health Effects

Eye Contact: Symptoms may include stinging, tearing, redness, swelling

and blurred vision.

Symptoms may include an itching or burning sensation, Skin Contact:

reddening and swelling.

Inhalation: Symptoms may include coughing, sneezing with phlegm

production, sore throat, nausea, headache, vomiting.

Symptoms may include cramping, localized pain, headache, Ingestion:

nausea and vomiting.

Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

Notes to Physician: Treat symptomatically. **Specific Treatments:** No specific treatment.

No action taken shall be taken involving any personal risk **Protection of First Responders:**

without suitable training. It may be dangerous to the person

providing aid to give mouth-to-mouth resuscitation.

See Toxicological Information (Section 11)

Section 5. Fire Fighting Measures

None identified. **General Hazards:**

Suitable Extinguishing Media: Product is not flammable. Use extinguishing measures and

media that are appropriate to the local circumstances and the

surrounding environment.

None identified. **Unsuitable Extinguishing Media:**

Unusual Fire and Explosion Hazards: None identified.

Product of Combustion: Decomposition products include boron oxides and calcium

oxides.

Protection of Firefighters: Promptly isolate the scene by removing all persons from the

> vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Avoid contact with skin or eyes. Avoid the formation and

inhalation of dusts, aerosols, vapors and gases.

Fire-fighters should wear appropriate protection equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in a positive pressure mode.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel: No action shall be taken involving any personal risk or without

suitable training. Evacuate surrounding areas. Keep

unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid the formation and

inhalation of dusts, aerosols, gases and vapors. Provide adequate ventilation. Wear respiratory protection. Put on

appropriate personal protective equipment.

For Emergency Responders: If specialized clothing is required to deal with the spillage, take

note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For Non-Emergency

Personnel".

Environmental Precautions: Do not allow dispersal of spilled material and contact with soil,

waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air).

Methods for Containment

General:

Move containers from spill area if safe to do so. Avoid the formation and inhalation of dusts, aerosols, vapors and gases. Dispose of collected spillage in accordance with federal, state and local regulations. Contaminated binding material may pose the same beyond as the spilled product.

the same hazard as the spilled product.

Small Spill: Collect spillage with a dry, binding material (e.g. dry sand, vermiculite or diatomaceous earth) and place in dry, sealed

container for disposal.

Large Spill: Approach release from upwind. Prevent entry into sewers,

water courses, basements or confined areas. Contain and collect spillage with a dry, binding material (e.g. dry sand, vermiculite or diatomaceous earth) and place in dry, sealed

container for disposal.

Note: see Section 1 for emergency contact information and

Section 13 for waste disposal.

Section 7. Handling and Storage

Precautions: Product is heat sensitive. Avoid formation and inhalation of

dusts, aerosols, vapors and gases. Keep container tightly sealed. Avoid contact with skin, eyes and clothing. Do not ingest. Avoid prolonged exposure. Ensure adequate

ventilation.

Section 7. Handling and Storage

Protective Measures: Put on appropriate personal protective equipment (see Section

8). Keep in the original container kept tightly closed when not in use. Empty containers retain product residue and can be

hazardous. Do not reuse container.

General Occupational Hygiene: Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective

equipment before entering eating areas. See also Section 8 for

additional information on hygiene measures.

Safe Storage Conditions: Product is heat sensitive. Store in original container protected

from direct sunlight in a cool, dry and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Store

locked up.

Section 8. Exposure Controls/Personal Protection

Introductory Remarks: These recommendations provide general gu

These recommendations provide general guidance for handling this product. Because work environments and material handling practices vary, safety procedures should be developed for each

intended application. While developing safe handling

procedures, do not overlook the need to clean equipment and conduct regular repairs. Waste from these procedures should

be handled in accordance with Section 13.

Occupational Exposure Limits: Product, as supplied, does not contain any hazardous materials

with occupational exposure limits established by the region

specific regulatory bodies.

Engineering Controls: Properly operating explosion-proof, chemical fume hood

designed for hazardous chemicals and having an average face

velocity of at least 100 feet per minute. Provide an

eyewash/shower station.

Environmental Exposure Controls: Emissions from ventilation or work process equipment should

be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable

levels.

Section 8. Exposure Controls/Personal Protection

Individual Protection Measures

Hygiene Measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Remove all soiled and contaminated clothing immediately. Do not inhale dusts or aerosols. Avoid contact with eyes and skin. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face Protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to aerosols or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles, faceshield (8-inch minimum). Refer to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN166.

Skin Protection

Hand Protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Chemical-resistant gloves.

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. For full contact, wear Neoprene or nitrile rubber gloves.

Other Skin Protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Section 8. Exposure Controls/Personal Protection

Respiratory Protection: Where risk assessment shows air-purifying respirators are

appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government

standards such as NIOSH (US) or CEN (EU).

Section 9. Physical and Chemical Properties

Solid (crystals). **Physical State:**

White. Color:

No data available. Odor: **Odor Threshold:** No data available. No data available. pH: **Melting Point:** 986 °C (1,806.8 °F).

No data available. **Boiling Point:** No data available. Flash Point:

Flammability (solid): Product is not flammable.

No data available. Density: No data available. **Vapor Pressure:** No data available. Vapor Density: Completely soluble. Water Solubility:

Section 10. Stability and Reactivity

No additional data is available. Reactivity:

Product is stable at normal ambient temperature and **Chemical Stability:**

pressure and under recommended storage conditions.

Exposure to heat. **Conditions to Avoid:**

Incompatible Materials: Strong reducing agents.

Hazardous decomposition products formed under fire **Hazardous Decomposition Products:**

conditions: boron oxides and calcium oxides. In the event

of a fire: see Section 5.

Possibility of Hazardous Reactions: Under normal conditions of storage and use noted above,

hazardous reactions will not occur.

Section 10. Stability and Reactivity

Possibility of Hazardous Reactions:

(cont.)

Hazardous reactions or instability may occur under certain

conditions of storage or use.

Section 11. Toxicological Information

Information on Toxicological Effects

No specific data available. **Acute Toxicity:** Irritation/Corrosion: No specific data available. Sensitization: No specific data available. **Germ Cell Mutagenicity:** No specific data available.

Carcinogenicity

IARC No component of this product present at levels greater

than 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH No component of this product present at levels greater

than 0.1% is identified as probable, possible or confirmed

human carcinogen by ACGIH.

NTP No component of this product present at levels greater

than 0.1% is identified as probable, possible or confirmed

human carcinogen by NTP.

No component of this product present at levels greater **OSHA** than 0.1% is identified as probable, possible or confirmed

human carcinogen by OSHA.

Product may damage fertility and the unborn child (boric **Reproductive Toxicity:**

acid).

Teratogenicity: No specific data available.

Specific Target Organ Toxicity: No specific data available.

(Single Exposure)

Specific Target Organ Toxicity: No specific data available.

(Repeated Exposure) **Aspiration Hazard:** No specific data available.

Common routes of exposure: inhalation (failure to Information on the Likely

Routes of Exposure: prevent dust formation), dermal (failure to use skin protection), eye (failure to use safety eyewear). Less common: ingestion (failure to employ recommended

> hygiene measures (e.g. smoking after handling product without washing hands or using hand protection).

Additional Information: To the best of our knowledge, the chemical, physical,

toxicological and ecological properties of this product have

not been fully investigated.

Section 12. Ecological Information

Numerical Measures of Toxicity: No specific data available.

Persistence and Degradability

Biodegradability: No specific data available.

Bioaccumulative Potential: No specific data available.

Mobility in Soil: No specific data available.

Results of PBT and vPvB Assessment: PBT/vPvB assessment not available as chemical safety

assessment not required/not conducted.

Endocrine Disrupting Properties: No specific data available.

Other Adverse Effects:

An environmental hazard cannot be excluded in the

event of unprofessional handling or disposal.

Section 13. Disposal Considerations

Waste Treatment Methods

Product:

Dispose of in accordance with local, state, and federal regulations. Refer to 40 CFR 260-299 for complete waste disposal regulations. Consult your local, state, or federal agency before disposing of any chemicals.

Contaminated Packaging: Empty containers retain product residue (dusts, aerosols, vapors and gases) and can be dangerous.

Dispose of as unused product.

Section 14. Transport Information

	DOT	IMDG	IATA
UN Number	Not regulated	Not regulated	Not regulated
UN Proper Shipping Name	-	-	-
Transport Hazard Classes	-	-	-
Packing Group	-	-	-
Environmental Hazards	-	-	-
Additional Information	-	-	-

Special Precautions for User: Transport within user's premises: always transport in

closed containers that are upright and secure. Ensure that persons transporting the product know what to do

in the event of an accident or spillage.

Section 15. Regulatory Information

TSCA (Toxic Substance Control Act):

This product is listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory).

SARA 302 Components

This product does not contain any components which are subject to the reporting requirements of SARA Title III, Section 302 EHS TPQ.

SARA 304 Components

This product does not contain any components which are subject to the reporting requirements of SARA Title III, Section 304 RQ.

SARA 311/312 Hazards

Reproductive toxicity (may damage fertility or the unborn child).

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act

Not applicable.

Clean Air Act

Not applicable.

CERCLA Reportable Quantity

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 Right-to-Know Listings

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Calcium borate	-	-	-	-	-

[&]quot;X" - Listed.

US State Chemicals of High Concern Listings

Component	Maine	Vermont	Washington
Calcium borate	-	-	-

[&]quot;X" - Listed.

California Proposition 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16. Other Information

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright © 2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

HMIS Rating

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0

History

Date of Issue/Date of Revision: 3/18/2025.

Date of Previous Issue: None.

References: None available.

Abbreviations and Acronyms

ACGIH : American Conference of Governmental Industrial Hygienists.

ATE : Acute Toxicity Estimate (per Chapter 3.1 of GHS 10 standard).

CAS : Chemical Abstracts Service (division of the American Chemical Society).

CLP : Classification, Labeling and Packaging (European Union (EU)).

DOT : US Department of Transportation.

EC No : The EC Inventory (EINECS, ELINCS and the NLP-list is the source of the seven digit

EC number, an identifier of substances commercially available with the EU (European

Union).

EINECS : European Inventory of Existing Commercial Chemical Substances.

ELINCS : European List of Notified Chemical Substances.

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

Section 16. Other Information

Abbreviations and Acronyms (cont.)

HMIS : Hazardous Materials Identification System.

HNOC : Hazards Not Otherwise Classified.

IARC : International Agency for Research on Cancer.

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulations by the "International Air Transport Association"

(IATA).

IDLH : Immediately Dangerous to Life or Health (US National Institute for Occupation Health

and Safety (NIOSH)).

IMDG : International Maritime Code for Dangerous Goods.

NFPA : National Fire Protection Association.

NIOSH : National Institute of Occupational Safety and Health.

NTP : National Toxicology Program.

OECD : Organization for Economic Co-Operation and Development.

OEL : Occupational Exposure Limit.

OSHA : Occupational Safety and Health Administration.

PBT : Persistent Bioaccumulative and Toxic.

PEL : Permissible Exposure Limits.
REL : Recommended Exposure Limits.

SARA : Superfund Amendments and Reauthorization Act.

STEL (ST) : Short Term Exposure Limit (ACGIH/NIOSH)

STOT : Specific Target Organ Toxicity.
TLV : Threshold Limit Values (ACGIH).

TWA : Time Weighted Average.VOC : Volatile Organic Compound.

vPvB : Very Persistent and Very Bioaccumulative.

Disclaimer

The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Ereztech LLC regarding the accuracy or completeness of the information. Ereztech LLC shall not be liable for any damages resulting from the handling, or from the contact with the above product.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.