Material Safety Data Sheet

Soda Lime Anesthesia

Medical Grade Carbon Dioxide Absorbent

Cat. No. 121201 - 121208

Material Safety Data Sheet

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

1.1 Product identifier

Product name:	CARBON DIOXIDE ABSORBENT(CALCIUM LIME, WITHOUT SODIUM HYDROXIDE)
Substance name:	CARBON DIOXIDE ABSORBENT(CALCIUM LIME, WITHOUT SODIUM HYDROXIDE)
REACH Reg. No.:	No registration number is given.
Index No.:	N.A.
CAS No.:	See section 3
EC No.:	See section 3

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

Identified uses:	Used for Absorbent of Carbon Dioxide
Uses advised against:	No uses advised against.

1.3 Details of the supplier of the SDS

Only Representative:	N.A.
Address:	N.A.
Manufacturer:	Boen Healthcare Co., Ltd.
Address:	Unit 602, International Center, No.535, Shenxu Road, Suhzou, Jiangsu, China
Tel/Fax:	+86-0512-62962707 /+86-0512-62922078
Importer:	N.A.
Address:	N.A.
Tel/Fax:	N.A.

1.4 Emergency telephone number

In China: +86-0512-62962707

Section 2: Hazards identification

2.1 Classification of the substance or mixture

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

Skin irritation (Category 2), H315

Serious eye damage (Category 1), H318

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to Council Directive 67/548/EEC [DSD]

N.A.

Additional information

Full text of R-phrases, S-phrases and H-statements: see section 16.

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 [CLP] / G.H.S.

Substance name:	SODA LIME、CARBON DIOXIDE ABSORBENTS
Hazard pictograms:	

Signal word:

Hazard statements:

H315	Causes skin irritation
H318	Causes serious eye damage.
H335	May cause respiratory irritation

Precautionary statements

P261	Avoid breathing dust.

P280	Wear protective gloves/ 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.
Prevention:	None
Response:	None
Storage:	None
Disposal:	None

Supplemental Hazard information (EUH):

No information available.

Special rules for supplemental label elements for certain mixtures:

Dose not fulfil the criteria for classification.

2.3 Other hazards:

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

Section 3: Composition/information on ingredients

3.1 Substance information

Chemical Name	***CAS:***	***Weight %***
Calcium Hydroxide	1305-62-0	87.99%
Moisture	7732-18-5	12%
Ethyl Violet	2390-59-2	0.01%

Section 4: First aid measures

4.1 Description of first aid measures

General notes: Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact:

Wash off with soap and plenty of water. Consult a physician.

Eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Notes for the doctor:

Treat symptomatically and supportively.

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

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of the immediate medical attention and special treatment needed:

No data available.

Section 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media:

Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Calcium oxide

5.3 Advice for fire-fighters

Wear protective garments and self-contained breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

See recommendation point 7 and 8.

6.2 Environmental precautions

Prevent further leakage or spillage of safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

Section 7: Handing and Storage

7.1 Precautions for safe handing

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): Combustible Solids

7.3 Specific end use(s)

A part from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

No data available.

DNEL (Derived No Effect Level) for workers:

No DNEL values for workers available.

DNEL (Derived No Effect Level) for the general population:

No DNEL values for the general population available.

PNEC (Predicted No Effect Concentration) values:

No PNEC values available.

8.2 Exposure controls

Appropriate engineering controls:

All work should be carried out in accordance with strict hygiene practices in suitable premises, in accordance with the existing legislation and regulations. Avoid raising dust.

Review the OSHA Formaldehyde standard (29CFR 1910.1048) for worker training, work place monitoring, and medical surveillance requirements to ensure compliance.

Personal protective equipment

Eye and face protection:	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standard such as NIOSH(US) or EN 166(EU).
Skin protection:	Handle with 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.
Body Protection:	Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If the full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Industrial hygiene:

Not available.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Granular
Color:	White
Oduor:	Odorless
pH:	Not Applicable.
Melting point:	Not available.
Boiling point:	Not available.
Density:	N.A. (Air = 1)
Vapor pressure:	Not available.
Partition coefficient (n-octanol/water):	Not available.
Solubility(ies):	Not available.
Flash point:	Not available.
Auto-ignition temperature:	Not available.

Flammability:	No information available.
Explosive properties:	Not available.
Oxidizing properties:	No information available.
Viscosity:	Not available.

9.2 Other information

No information available.

Section 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Strong acids

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Calcium oxide

In the event of fire: see section 5

Section 11: Toxicological information

11.1 Toxicokinetic, metabolism and distribution

Metabolism: Not Available.

Absorption, Distribution & Excretion: Inhalation.

11.2 Information on toxicological effects

Acute toxicity: LD50 Oral - Rat - 7,340 mg/kg (Calcium Di hydroxide)

Skin corrosion/irritation:

Skin - Rabbit (Calcium Di hydroxide)

Result: Irritating to skin.

(OECD Test Guideline 404)

Serious eye damage/irritation:

Eyes - Rabbit (Calcium Di hydroxide)

Result: Severe eye irritation

(OECD Test Guideline 405)

Respiratory or skin sensitization:

Not Available.

Potential health effects:

Inhalation	May cause respiratory irritation. (Calcium Di hydroxide)
Ingestion	Not Available
Skin	Not Available
Eyes	Not Available

CMR effects (Carcinogenicity, Mutagenicity and Toxicity for Reproduction):

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

STOT-single exposure and repeated exposure:

Specific target organ toxicity - single exposure: Not Available.

Specific target organ toxicity - repeated exposure: Not Available.

Additional information:

According to our present knowledge, no adverse health effects are expected when the product is handled and used with due care and attention, in the intended field of application.

Section 12: Ecological information

12.1 Toxicity

Acute toxicity to fish:	No data available
Acute toxicity to daphnia:	No data available
Acute toxicity to algae:	No data available

12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bio accumulative potential

Dose not bioaccumulate.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

Section 13: Disposal considerations

13.1 Waste treatment methods

Observe all federal, state, and local environment regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Section 14: Transport information

14.1 Land transport (ADR/RID/GGVSE)

Official transport designation:	N/A
UN-No.:	N/A
Class:	N/A
Packing group:	N/A
Classification Code:	N/A
Hazard label:	N/A

14.2 Sea transport (IMDG-Code/GGVSee)

Proper Shipping Name:	N/A
UN-No.:	N/A
Class:	N/A
Packing group:	N/A
EmS No.:	N/A

14.3 Air transport (ICAO-TI/ATA-DGR)

Proper Shipping Name:	N/A
UN-No.:	N/A
Class:	N/A

Packing group:	N/A

14.4 Additional information

No other information available.

Section 15: Regulatory information

EU regulation:	
Authorizations:	No information available.
Restrictions on use:	No information available.
EINECS:	This product is on the European Inventory of Existing Commercial Chemical Substances.
DSD:	Not Available.
Other chemical regulation:	Not Available.
USA - TSCA:	Not listed.
Canada - DSL:	Not Controlled.

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

Not available.

15.2 Chemical Safety Assessment

Not available.

Section 16: Other information

16.1 Revision Information

Date of the previous revision: Not applicable.

Date of the revision: Jun. 17th, 2022.

Revision summary: The first new SDS

16.2 Abbreviations and acronyms

CLP:	EU regulation (EC) No 1272/2008 on classification, labeling and packaging of chemical substances and mixtures.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
EINECES:	European Inventory of Existing Commercial Chemical Substances.
RID:	European Rail Transport.
IMDG:	International Maritime Code for Dangerous Goods.
IATA:	International Air Transport Association.
OSHA:	The United States Occupational Safety and Health Administration.
TSCA:	Toxic Substances Control Act, The American chemical inventory.
DSD:	Dangerous Substance Directive (67/548/EEC).
IECSC:	Inventory of existing chemical substances in China.
DSL:	Domestic Substances List, The Canadian chemical inventory.
AICS:	The Australian Inventory of Chemical Substances.
ECL:	Existing Chemicals List, the Korean chemical inventory.
ENCS:	Japanese Existing and New Chemical Substances.

16.3 Key literature references and sources for data

ESIS Dataset: European chemical Substances Information System.

NLM: U.S. National Library of Medicine.

GESTIS-database: Information system on hazardous substances of the German Social Accident Insurance.

HSDB: Hazardous Substances Data Bank.

The Chemical Database.

16.4 Relevant R-phrases and H-statements

R-phrases (code and full text):

None.

S-phrases (code and full text):

None.

H-statements (code and full text):

None.

16.5 Training advice

Provide adequate information, instruction and training for operators.