

Material Safety Data Sheet LITHIUM CARBONATE

Section 1 - Product Identification

Synonyms : Carbonic acid lithium salt; carbonic acid dilithium salt
CAS No. : 554-13-2
Molecular Weight : 73.88 g/mol
Chemical Formula : Li_2CO_3
Company Identification : Tradeasia International Pte. Limited
Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore
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Section 2 – Hazards Identification

Emergency Overview

| | |
|------------|-----------|
| Appearance | Liquid |
| Color | Colorless |
| Odor | Odorless |

GHS Classification

Chemical considered hazardous by 2012 OSHA Hazard Communication Standard

Skin irritation, Category 2

Eye irritation, Category 2A

Acute toxicity, Category 4

Label element

Hazard pictograms :



Signal Word : Danger

Hazard Statements :

Harmful if swallowed

Causes skin irritation

Causes serious eye damage

May cause respiratory irritation

Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Response

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.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before reuse

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing. Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth thoroughly.

Storage

Store in a well-ventilated place. Keep the container tightly closed.

Disposal

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

Other hazards

May cause pulmonary edema. may produce an allergic reaction.

WARNING. Reproductive harm.

Section 3 – Composition/Information on Ingredients

Ingredients

| Component | CAS-No. | EINECS/ELINCS | Concentration (%) |
|-------------------|----------|---------------|-------------------|
| Lithium carbonate | 554-13-2 | 209-062-5 | >98 |

Section 4 – First-Aid Measures

| | |
|----------------|---|
| General advice | : Under normal conditions usage, it is not expected to be a health hazard |
| Inhalation | : If inhaled, remove from exposure and move to fresh air. Do not try to rescue the victim unless proper respiratory protection is worn. Give oxygen if the victim has difficulty in breathing. Transport to the nearest medical facility. |
| Skin contact | : Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment. |
| Eye contact | : Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. |
| Ingestion | : If swallowed, do not induce vomiting: transport to the nearest medical facility or poison center immediately. |

Notes to physician

| | |
|-----------|--------------------------|
| Risks | : Not available. |
| Treatment | : Treat symptomatically. |

Section 5 – Fire Fighting Measures

| | |
|---|--|
| Suitable extinguishing media | : No information available. |
| Unsuitable extinguishing media | : No information available. |
| Specific hazards during fire fighting / Specific hazards arising from the chemical | : Keep the product and empty container away from heat and sources of ignition. |

| | | |
|--|---|--|
| Combustion products | : | None under normal conditions usage. |
| Special protective equipment for fire-fighters | : | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |
| Further information | : | No information available. |

See also Section 9. Physical and chemical properties: Safety data

Section 6 – Accidental Release Measures

| | | |
|---|---|---|
| Personal Precautions | : | Ensure adequate ventilation. Use personal protective equipment |
| Environmental Precautions | : | Do not flush into surface water or sanitary sewer systems. If the product contaminates rivers and lakes or drains inform respective authorities. Should not be released into the environment. |
| Methods for cleaning up/methods for containment | : | Sweep up or vacuum up spillage and collect in a suitable container for disposal. Avoid dust formation. |
| Additional Advice | : | For personal protection see section 8. |

Section 7 – Handling and Storage

HANDLING

Advice on safe handling

Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not breathe dust.

Advice on protection against fire & explosion

Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur.

Beware of handling operations that may give rise to additional hazards that result from the accumulation of static charges

Electrostatic charges will be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment to reduce the risk.

STORAGE

Requirements for storage areas and containers

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

Containers, even those that have been emptied, can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers.

Section 8 – Exposure Controls/Personal Protection (later)

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

| | | |
|--------------------------|---|---|
| Eye/face protection | : | Wear tight sealing eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Use face protection shield. |
| Hand protection | : | Wear appropriate protective gloves |
| Skin and body protection | : | Protective suit to prevent skin exposure |
| Respiratory protection | : | Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. |
| Hygiene measures | : | Handle in accordance with good industrial hygiene and safety practice. |

Environmental exposure controls

| | | |
|----------------|---|--|
| General advice | : | Do not flush into surface water or sanitary sewer systems. If the product contaminates rivers and lakes or drains inform respective authorities. |
|----------------|---|--|

Section 9 – Physical and Chemical Properties

Appearance

| | | |
|----------------|---|-------------------|
| Form | : | Solid, powder |
| Color | : | White |
| Odor | : | Odorless |
| Odor Threshold | : | No data available |

Safety Data

| | | |
|--|---|-------------------|
| pH | : | No data available |
| Melting point/range | : | 618 °C |
| Boiling point/range | : | 1360 °C |
| Flash point | : | No data available |
| Evaporation rate | : | Negligible |
| Flammability (solid, gas) | : | No data available |
| Lower explosion limit | : | 1.1 %(V) |
| Upper explosion limit | : | 6.1 %(V) |
| Vapor pressure | : | No data available |
| Relative vapor density | : | No data available |
| Specific gravity | : | 2.1 |
| Water solubility | : | 1.5% |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Autoignition temperature | : | No data available |
| Decomposition temperature | : | No data available |

| | |
|----------------------|---------------------|
| Viscosity, dynamic | : No data available |
| Viscosity, kinematic | : No data available |
| Explosive properties | : No data available |

Section 10 – Stability and Reactivity

| | |
|----------------------------------|---------------------------------|
| Materials to avoid | : Strong oxidizing agents. |
| Conditions to avoid | : Dust formation. |
| Hazardous decomposition products | : None known. |
| Reactivity | : None known. |
| Chemical stability | : Material is stable normally. |
| Hazardous reactions | : None under normal processing. |
| Other Data | : None under normal processing. |

Section 11 – Toxicological Information

Toxicology Assessment

Acute Oral Toxicity

Species: rat

LD50 oral: >525 mg/kg

LD50 dermal: not listed

LC50 inhalation: > 2.17 mg/L (rat) 4h

| | |
|---------------|--|
| Irritation | : Risk of irritation to the eyes, skin and respiratory system. |
| Sensitization | : No information available. |

| | |
|-----------------------|-----------------------------|
| Aspiration toxicity | : No information available. |
| Carcinogenicity | : No information available. |
| Mutagenicity | : No information available. |
| Teratogenicity | : No information available. |
| Reproductive toxicity | : No information available. |

Carcinogenicity:

| | |
|--------|--------------|
| IARC | : Not listed |
| OSHA | : Not listed |
| NTP | : Not listed |
| ACGIH | : Not listed |
| Mexico | : Not listed |

Other adverse effects

The toxicological properties have not been fully investigated

Section 12 – Ecological Information

Ecotoxicology Assessment

Do not empty into drains

Elimination information (persistence and degradability)

| | |
|------------------|-----------------------------|
| Bioaccumulation | : No information available. |
| Biodegradability | : No information available. |

Result of PBT assessment : No information available.

Section 13 – Disposal Considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. They must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14 – Transport Information

| | |
|----------|---------------|
| DOT | Not regulated |
| TDG | Not regulated |
| IATA | Not regulated |
| IMDG/IMO | Not regulated |

Section 15 – Regulatory Information

International Inventories

| Component | TSCA | DSL | NDSL | EINECS | ELINCS | NLP | PICCS | ENCS | AICS | IECSC | KECL |
|-------------------|------|-----|------|-----------|--------|-----|-------|------|------|-------|------|
| Lithium carbonate | X | X | - | 209-062-5 | - | - | X | X | X | X | X |

Legends

X - Listed

'-' - Not listed

TSCA - Toxic Substance Control Act, (40 CFR Part 710)

AICS - Australia, Inventory of Chemical Substance

EINECS - European Inventory of Existing Chemical Substances

DSL - Domestic Substances List

NDSL - Canada, Domestic Substances List

ELINCS - European List of Notified Chemical Substances

NLP - No-longer Polymers List

PICCS - Philippine Inventory of Chemicals and Chemical Substances

ENCS - Japanese Existing and New Chemical Substances Inventory

IECSC - Inventory of Existing Chemical Substances in China

KECL - Korea Existing Chemicals List

TWA - Time weighted average

US Federal Regulations

TSCA 13(b) Not applicable

SARA 313 Not applicable

| Component | CAS-No | Weight % | SARA 313 - Threshold values % |
|-------------------|----------|----------|-------------------------------|
| Lithium carbonate | 554-13-2 | 98 | 1 |

CWA (Clean Water Act)

Not applicable

Clean Air Act

Not applicable

OSHA

Not applicable

CERCLA

Not applicable

California Proposition 65 Not applicable

| Component | CAS-No | Weight % | SARA 313 - Threshold values % |
|-------------------|----------|----------|-------------------------------|
| Lithium carbonate | 554-13-2 | 98 | 1 |

US Department of Transportation

Reportable Quantity N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

US Department of Homeland Security

This product does not contain any DHS chemicals.

Section 16 : Additional Information**Revision Date** : 21-December-2020**Print Date** : 21-December-2020**Disclaimer:**

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