

# SAFETY DATA SHEET

Prepared in accordance with GB/T 16483 and GB/T 17519

# RioTinto

## Section 1. Chemical product and company identification

**Product name** : Lithium Carbonate  
**GHS化学品标识** : 碳酸锂  
**Other means of identification** : Lithium carbonate, Carbonic acid, Lithium salt (1:2)  
**Product type** : Powder.

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

**Material uses** : Industrial applications: Manufacture of chemicals. Chemical synthesis. Lithium hydroxide production. Manufacture of ceramics and glass. Cathode / battery manufacturing.

**Company name** : Rio Tinto Commercial Pte. Ltd.  
12 Marina Boulevard  
#20-01 Marina Bay Financial Centre Tower 3  
Singapore 018982  
Tel: +65 6679 9000

Manufacturer:  
Rincon Mining Pty Limited  
Necochea 867, Planta Baja  
CP 4400, Salta  
Argentina  
Tel: +54 387 495 5900

**e-mail address of person responsible for this SDS** : rtb.sds@riotinto.com

**24h National Chemical Emergency Helpline** : 0532- 8388 9090

**Emergency telephone number** : 400 120 6011 (toll-free, access from China only) (Rio Tinto Lithium)  
For advice on chemical emergencies, spillages, fires or first aid.

## SECTION 2: Hazards identification

Classification of the substance or mixture according to GB 13690-2009 and GB 30000-2013

### Emergency overview

Solid. [Crystalline powder.]

White.

Odorless.

Harmful if swallowed.

Causes serious eye irritation.

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

**IF SWALLOWED:** Call a POISON CENTER or doctor if you feel unwell. If eye irritation persists: Get medical advice/attention.

**See Section 12 for environmental precautions.**

**Classification of the substance or mixture** : ACUTE TOXICITY (oral) - Category 4  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

## SECTION 2: Hazards identification

### GHS label elements

Hazard pictograms :



Signal word :

Warning

Hazard statements :

Harmful if swallowed.  
Causes serious eye irritation.

### Precautionary statements

Prevention :

Wear eye or face protection. Do not eat, drink or smoke when using this product.  
Wash hands thoroughly after handling.

Response :

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage :

Not applicable.

Disposal :

Dispose of contents/container in accordance with local regulation.

Physical and chemical hazards :

No known significant effects or critical hazards.

Health hazards :

Harmful if swallowed. Causes serious eye irritation.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact :

Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

Inhalation :

Adverse symptoms may include the following:  
respiratory tract irritation  
coughing

Skin contact :

No specific data.

Ingestion :

No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

Potential immediate effects :

Not available.

Potential delayed effects :

Not available.

#### Long term exposure

Potential immediate effects :

Not available.

Potential delayed effects :

Not available.

Environmental hazards :

No known significant effects or critical hazards.

Other hazards which do not result in classification :

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Product name : Lithium Carbonate

## Section 3. Composition/information on ingredients

Substance/mixture : Substance

| Ingredient name   | %   | Identifiers   |
|-------------------|-----|---------------|
| Lithium carbonate | ≥98 | CAS: 554-13-2 |

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

### First aid

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : Harmful if swallowed.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

## Section 4. First aid measures

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or 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

### Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : No specific fire or explosion hazard.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/oxides

**Special protective actions for fire-fighters** : 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.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Remark** : The product is not flammable, combustible or explosive.

## 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 breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Methods and materials for containment and cleaning up

**Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Avoid dust generation.

**Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 6. Accidental release measures

**Precautionary measures to prevent the occurrence of secondary disasters** : Prevent entry into sewers, water courses, basements or confined areas.

## Section 7. Handling and storage

### Precautions for safe handling

**Precautions for operating** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on 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.

**Conditions for safe storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name   | Exposure limits  |
|-------------------|--|
| Lithium carbonate | <b>Rio Tinto recommended OEL (United States, 6/2022) [Lithium and compounds (as Li)]</b><br>STEL: 0.02 mg/m <sup>3</sup> (Inhalable). Form: (as Li). |

#### Biological exposure indices

No exposure indices known.

**Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**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.

### Personal protective equipment

**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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. 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 liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. If operating conditions cause high dust concentrations to be produced, use dust goggles.

#### Skin protection

## Section 8. Exposure controls/personal 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.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- 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.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance and physical state

- Physical state** : Solid. [Crystalline powder.]
- Color** : White.
- Odor** : Odorless.
- Odor threshold** : Not available.
- pH** : 11.2 [Conc. (% w/w): 1%]
- Melting point/freezing point** :  22°C (1331.6°F) [EU A.1]
- Boiling point or initial boiling point and boiling range** :  Not applicable. [Decomposes]
- Flash point** :  Not applicable (solid).
- Evaporation rate** : Not available.
- Flammability (solid, gas)** :  Non-flammable. [EU A.10]
- Lower and upper explosion limit/flammability limit** :  Not applicable (solid).
- Vapor pressure** :  Not applicable. [melting point >300°C]
- Relative vapor density** :  Not applicable (solid).
- Bulk density** : Not available.
- Granulometry** : Not available.
- Relative density** :  2.1 [20 °C]
- Density** :  2.1 g/cm<sup>3</sup> [20°C (68°F)]
- Solubility in water** :  8.4 g/l at 20 ± 0.5 °C [OECD 105]
- Partition coefficient: n-octanol/water** :  Not applicable. [Inorganic substance.]
- Auto-ignition temperature** :  Not applicable (solid).
- Decomposition temperature** :  300°C (2372°F)
- Viscosity** :  Not applicable. (solid)
- Flow time (ISO 2431)** : Not available.
- Particle characteristics**
- Median particle size** :  Not available.

Product name : Lithium Carbonate

## Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Incompatible materials** :  Strong acids and Strong oxidizer (such as Fluorine.)  
Reacts violently with Fluorine.
- Hazardous decomposition products** :  Hazardous decomposition products: Lithium oxide. Thermal decomposition:  
Hazardous decomposition products: > 600 °C

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name | Result                          | Species | Dose        | Exposure |
|-------------------------|---------------------------------|---------|-------------|----------|
| Lithium carbonate       | LC50 Inhalation Dusts and mists | Rat     | >2 mg/l     | 4 hours  |
|                         | LD50 Dermal                     | Rabbit  | >3000 mg/kg | -        |
|                         | LD50 Oral                       | Rat     | 525 mg/kg   | -        |

**Conclusion/Summary** :  Harmful if swallowed.

#### Irritation/Corrosion

| Product/ingredient name | Result              | Species                  | Score | Exposure | Observation |
|-------------------------|---------------------|--------------------------|-------|----------|-------------|
| Lithium carbonate       | Eyes - Irritant     | New Zealand White Rabbit | -     | 0.1g     | -           |
|                         | Skin - Not irritant | New Zealand White Rabbit | -     | 0.5g     | -           |

#### Conclusion/Summary

- Skin** :  Non-irritant to skin. Based on the available data, the classification criteria are not met.
- Eyes** :  Irritant to eyes. Based on the results obtained with unwashed eyes, lithium carbonate has to be classified and labelled as Cat.2 (H319).
- Respiratory** :  Based on the available data, the classification criteria are not met.

#### Respiratory or skin sensitization

| Product/ingredient name | Route of exposure | Species    | Result          |
|-------------------------|-------------------|------------|-----------------|
| Lithium carbonate       | skin              | Guinea pig | Not sensitizing |

#### Conclusion/Summary

- Skin** :  Not a skin sensitizer. Based on the available data, the classification criteria are not met.
- Respiratory** :  No respiratory sensitization studies have been conducted. Based on the available data, the classification criteria are not met.

#### Germ Cell Mutagenicity

## Section 11. Toxicological information

| Product/ingredient name  | Test     | Experiment  | Result   |
|--|----------|---|----------|
| Lithium carbonate (based on read-across to Lithium hydroxide). | OECD 471 | Experiment: In vitro<br>Subject: Bacteria         | Negative |
|  | OECD 476 | Experiment: In vitro<br>Subject: Mammalian-Animal | Negative |
|  | OECD 473 | Experiment: In vitro<br>Subject: Mammalian-Human  | Negative |

**Conclusion/Summary** :  Not mutagenic (based on read-across to Lithium hydroxide). Based on the available data, the classification criteria are not met.

### Carcinogenicity

Not available.

**Conclusion/Summary** :  No Carcinogenicity studies have been conducted. Based on the available data, the classification criteria are not met.

### Reproductive toxicity

| Product/ingredient name | Maternal toxicity | Fertility | Development toxin | Species | Dose | Exposure |
|-------------------------|-------------------|-----------|-------------------|---------|------|----------|
| Lithium carbonate       | -                 | -         | -                 | Rat     | Oral | -        |

**Conclusion/Summary** :  The available experimental test data are reliable and suitable for classification purposes under Regulation (EC) No 1272/2008. Based on the available data, the classification criteria are not met.

### Teratogenicity

| Product/ingredient name | Result          | Species | Dose | Exposure |
|-------------------------|-----------------|---------|------|----------|
| Lithium carbonate       | Positive - Oral | Rat     | -    | -        |

**Conclusion/Summary** :  See Reproductive toxicity.

### Specific target organ toxicity (single exposure)

| Name  | Category | Route of exposure | Target organs |
|---|----------|-------------------|---------------|
| <input checked="" type="checkbox"/> Based on the available data, the classification criteria are not met. |          |                   |               |

### Specific target organ toxicity (repeated exposure)

| Name  | Category | Route of exposure | Target organs |
|---|----------|-------------------|---------------|
| <input checked="" type="checkbox"/> Based on the available data, the classification criteria are not met. |          |                   |               |

### Aspiration hazard

| Name  | Result |
|---|--------|
| <input checked="" type="checkbox"/> Physical form of solid powder indicates no aspiration hazard potential. |        |

**Information on the likely routes of exposure** :  Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : Harmful if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics



## Section 11. Toxicological information

|                     |  |
|---------------------|--|
| <b>Eye contact</b>  | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness |
| <b>Inhalation</b>   | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing  |
| <b>Skin contact</b> | : No specific data.  |
| <b>Ingestion</b>    | : No specific data.  |

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

#### Long term exposure

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

#### Potential chronic health effects

|                              |  |
|------------------------------|--|
| <b>General</b>               | : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. |
| <b>Carcinogenicity</b>       | : No known significant effects or critical hazards.                                    |
| <b>Mutagenicity</b>          | : No known significant effects or critical hazards.                                    |
| <b>Reproductive toxicity</b> | : No known significant effects or critical hazards.                                    |

### Numerical measures of toxicity

#### Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| Lithium Carbonate       | 500          | N/A            | N/A                      | N/A                        | N/A                                 |
| Lithium Carbonate       | 525          | 2500           | N/A                      | N/A                        | 1.5                                 |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result                              | Species                | Exposure |
|-------------------------|-------------------------------------|------------------------|----------|
| Lithium carbonate       | Acute EC50 135 mg/l Fresh water     | Algae                  | 72 hours |
|                         | Acute NOEC 9 mg/l Fresh water       | Algae                  | 72 hours |
|                         | Acute LC50 30.3 mg/l Fresh water    | Oncorhynchus mykiss    | 96 hours |
|                         | Chronic NOEC 9 mg/l Fresh water     | Daphnia: Daphnia magna | 21 days  |
|                         | Acute EC50 33.2 mg/l Fresh water    | Daphnia: Daphnia magna | 48 hours |
|                         | Chronic NOEC 15.28 mg/l Fresh water | Brachydanio rerio      | 34 days  |

**Conclusion/Summary** : Based on the available data, the classification criteria are not met.

### Persistence/degradability

**Conclusion/Summary** : Not applicable. Inorganic substance.

### Bioaccumulation/Accumulation

Product name : Lithium Carbonate

## Section 12. Ecological information

| Product/ingredient name   | LogP <sub>ow</sub> | BCF | Potential |
|---|--------------------|-----|-----------|
| <p><input checked="" type="checkbox"/> Lithium Carbonate:</p> <p>Lithium salts are not considered to bioaccumulate. The anionic part of the lithium salts is either natural or chemically indistinguishable from natural substances. Anionic parts like carbonate, chloride or nitrate can be found ubiquitous in nature. Thus, only data on the bioaccumulation potential of the lithium component are considered. Recalculation of the highest BAF/BCF values of the evaluated literature resulted in a BCF of 43 L/kg and a BAF of 85 for lithium carbonate. Thus, lithium carbonate is not considered as bioaccumulative.</p> |                    |     |           |

### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>)

:  The mobility of the test item depends on the anion exchange capacity of the soils as the main component of the test material is an anion, however based on available K<sub>d</sub> values the substance adsorption potential can be regarded as low.

Mobility

:  Low

### Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

### Disposal methods

:  The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

## Section 14. Transport information

|                            | China          | UN             | IMDG           | IATA           |
|----------------------------|----------------|----------------|----------------|----------------|
| UN number                  | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping name    | -              | -              | -              | -              |
| Transport hazard class(es) | -              | -              | -              | -              |
| Packing group              | -              | -              | -              | -              |
| Environmental hazards      | No.            | No.            | No.            | No.            |

Product name : Lithium Carbonate

## Section 14. Transport information

**Special precautions for user** : Not applicable.

### Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Incompatible materials** : Strong acids and Strong oxidizer (such as Fluorine.)  
Reacts violently with Fluorine.

**Transport in bulk according to IMO instruments** : Not applicable.

## Section 15. Regulatory information

### List of Goods banned for Importing

None of the components are listed.

### Drug Precursors Requiring an Import/Export License

None of the components are listed.

### Inventory of Hazardous Chemicals

None of the components are listed.

### List of Explosive Precursors

None of the components are listed.

### List of Goods banned for Exporting

None of the components are listed.

### List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed.

### Catalogue and classification of drug precursor chemicals

None of the components are listed.

### Inventory of Highly Toxic Articles

None of the components are listed.

### Catalogue of Hazardous Chemicals of Priority Management

None of the components are listed.

### Catalogue of Occupational Disease Hazard Factors - Dust

None of the components are listed.

### Catalogue of Occupational Disease Hazard Factors - Chemical Factors

| Ingredient name           | Status |
|---------------------------|--------|
| Lithium and its compounds | Listed |

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

Product name : Lithium Carbonate

## Section 15. Regulatory information

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

|                                |   |
|--------------------------------|---|
| <b>Australia</b>               | : All components are listed or exempted.  |
| <b>Canada</b>                  | : All components are listed or exempted.  |
| <b>China</b>                   | : All components are listed or exempted.  |
| <b>Eurasian Economic Union</b> | : <b>Russian Federation inventory</b> : All components are listed or exempted.  |
| <b>Japan</b>                   | : <b>Japan inventory (CSCL)</b> : All components are listed or exempted.<br><b>Japan inventory (ISHL)</b> : Not determined. |
| <b>New Zealand</b>             | : All components are listed or exempted.  |
| <b>Philippines</b>             | : All components are listed or exempted.  |
| <b>Republic of Korea</b>       | : All components are listed or exempted.  |
| <b>Taiwan</b>                  | : All components are listed or exempted.  |
| <b>Thailand</b>                | : <input checked="" type="checkbox"/> All components are listed or exempted.  |
| <b>Turkey</b>                  | : All components are listed or exempted.  |
| <b>United States</b>           | : <input checked="" type="checkbox"/> All components are active or exempted.  |
| <b>Viet Nam</b>                | : <input checked="" type="checkbox"/> All components are listed or exempted.  |

## Section 16. Other information

### History

**Date of issue/Date of revision** : 2024/11/22

**Date of previous issue** : 2019/08/05

**Version** : 1.02

### Key to abbreviations

: ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
IMSBC = International Maritime Solid Bulk Cargoes Code  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
N/A = Not available  
SGG = Segregation Group  
UN = United Nations

### Procedure used to derive the classification

| <b>Classification</b>  | <b>Justification</b> |
|--|----------------------|
| <input checked="" type="checkbox"/> ACUTE TOXICITY (oral) - Category 4 | Expert judgment      |
| SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A                       | Expert judgment      |

### Additional information

:  Keep out of reach of children.  
Do not ingest.  
Not for use in pharmaceutical applications (except where expressly authorized by the relevant regulator).  
Refer to safety data sheet.

Indicates information that has changed from previously issued version.

China / 4.14 / EN-US

### Disclaimer

**Date of issue/Date of revision** : 2024/11/22

**Version** : 1.02 12/13

## Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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.