

Safety Data Sheet (SDS) CARBONATE

Page 1 of 10

According to GHS 10th ED
Revision Date: 2024/04/15

First print date: 2024/04/15

Version: 1.0

SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:

Identification as on the label/Trade name: **CARBONATE**

Additional information: Product code: CARB SP/01

1.2 Relevant identification uses of the substance and uses advised against:

Identified uses: Fungicide.

Uses advised against: Use only as directed.

1.3 Details of the formulator and manufacturer:

N Laboratories (PTY) LTD
No 144, Avenue 2
Modder East Orchards, DELMAS
+2782 738 0080

1.4 Details of the distributor:

AECI Limited
14 Field Road, LILANTON

1.5 Emergency telephone numbers:

Griffon Poison information centre: 082 446 8946
Poisons Information Helpline: 0861 555 777
AECI Limited: (011) 823 8000 (o/h) Spill Tech: 086 100 0366 (a/h)

SECTION 2. HAZARD IDENTIFICATION

2.1 Classification of the substances or mixture

The mixture is classified according to

Regulation HCA, Regulation EC 1272/2008 [EU-GHS/CLP]	
Hazard classes/Hazard categories	Hazard statement
Not classified	Not required

For full text of H statements see section 16

The most important adverse effects

The most important adverse physiochemical effects: None.

The most important adverse human health effects: None.

Safety Data Sheet (SDS) CARBONATE

Page 2 of 10

According to GHS 10th ED
Revision Date: 2024/04/15

2.2 Label elements

Hazard pictograms: Not required.

Signal Word: Not required.

Hazard Statements: Not required.

Precautionary Statements: P301+317: IF SWALLOWED: Get medical help. P302 + 317: IF ON SKIN: Get medical help. P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P402 + P404: Store in a dry place. Store in a closed container.

Special labelling of certain mixtures: None

Other hazards: None.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance/Mixture:

Ingredients:

Substance name (IUPAC/EC)	CAS –No.	Concentration % by weight	Classification
	EC-No.		EC1272/2008
Potassium bicarbonate	298-14-6	85%	Not classified
	209-529-3		

For full text of H statements see section 16

Product description: A water-soluble powder contact fungicide and insecticide for the control of diseases and pest on agricultural crops as listed.

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

4.1 Description of first aid measures:

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if you feel unwell.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation occurs.

In case of eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

Safety Data Sheet (SDS) CARBONATE

Page 3 of 10

According to GHS 10th ED
Revision Date: 2024/04/15

In case of ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if you feel unwell or are concerned.

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

Inhalation: May cause respiratory irritation.

Ingestions: May be harmful if swallowed.

Skin contact: May cause skin irritation.

Eye contact: May cause redness and tearing of eyes.

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

Treat symptomatically.

SECTION 5. FIRE -FIGHTING MEASURE

5.1 Extinguisher media:

Suitable extinguisher media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the mixture:

Thermal decomposition can lead to the release of irritating and toxic gases and vapours.

5.3 Advice for fire-fighters:

Evacuate all persons from the fire site. Fight fire from a protected location. Use water spray to cool containers exposed to fire. Keep adequate measures to prevent environmental contamination. Dike fire control water for later disposal according to local laws. Depending on fire location it is preferable not to use water to prevent the risk of environmental contamination; if not possible use spray water consciously. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Act in accordance with the site's Internal Emergency Plan and the Workplace Specific Procedures for actions to be taken after an accident or other emergencies.

SECTION 6. ACCIDENTAL RELEASE

6.1 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. 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".

6.2 Environmental precautions:

Safety Data Sheet (SDS) CARBONATE

Page 4 of 10

According to GHS 10th ED

Revision Date: 2024/04/15

Prevent spillage if safe to do so. Do not allow the spilt product to enter water courses and drains and avoid contact with soil. Do not allow the spilt product to spread to other areas - keep the spilt material contained and isolated. Report spills and releases as required to appropriate authorities if the spilt product has caused environmental pollution (sewers, water ways, soil, or air).

For small spills: Avoid creating dust. Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust. Sweep up and shovel into suitable and properly labelled containers, collect washings using absorbent material such as, sand, diatomite or universal binders. Dispose and or manage in accordance with the requirements contained in R634 Waste Classification & Management Regulations, R635 National Norms & Standards for the Assessment of Waste for Landfill Disposal and R636 National Norms & Standards for Disposal of Waste to Landfill.

For large spills: Avoid creating dust. Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust. Sweep up and shovel into suitable and properly labelled containers, collect washings using absorbent material such as, sand, diatomite or universal binders. Dispose and or manage in accordance with the requirements contained in R634 Waste Classification & Management Regulations, R635 National Norms & Standards for the Assessment of Waste for Landfill Disposal and R636 National Norms & Standards for Disposal of Waste to Landfill.

6.3 Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

6.4 Additional information:

Never return spills to original containers for re-use.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Always provide good ventilation in the work area. Wear protective clothing and equipment during handling as described in Section 8 of the SDS. Wash the hands and face thoroughly with water after handling. Keep containers closed when not in use. Do not permit smoking in use or storage areas. Locate emergency showers and eye-rinsing facility near the work/handling area. Remove contaminated clothing immediately if the product gets inside. Contaminated work clothing should not be allowed out of the workplace. Work clothes should be separately laundered. Launder contaminated clothing before re-use. Keep unprotected persons away from the area where the product is being applied.

Protective measures: Observe directions on label and instructions for use.

Advice on general occupational hygiene: Do not eat drink or smoke when handling this product. Regular cleaning of work area and work clothing is recommended. Maintain good normal industrial hygiene and housekeeping practices in areas where the product is used/handled.

7.2 Conditions for safe storage, including incompatibilities:

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

Safety Data Sheet (SDS) CARBONATE

Page 5 of 10

According to GHS 10th ED

Revision Date: 2024/04/15

to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end uses:

Use as directed. Use original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Occupational exposure limits (OEL): No information available.

Biological exposure indices (BEI): No information available.

Additional exposure limits under the conditions of use: No information available.

8.2 Exposure control:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

Appropriate engineering controls: Use local exhaust ventilation, or other engineering controls to maintain vapour/mist, if available maintain airborne levels below exposure limit requirements or guidelines.

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. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Use safety glasses. If there is a potential for exposure dust which could cause eye discomfort, wear chemical goggles.

Hand protection: Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

Body protection: Wear appropriate clothing for task or operation. Keep working clothes separately.

Respiratory protection: Use dust masks in very dusty environments. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance (form): Powder.

Colour: White.

Odour: Characteristic.

Safety Data Sheet (SDS) CARBONATE

Page 6 of 10

According to GHS 10th ED
Revision Date: 2024/04/15

Odour threshold: Not determined.

pH: 8.0-8.4 (1% solution)

Melting point/range (°C): No information available.

Boiling point/range (°C): Not determined.

Flash point (°C): No information available.

Evaporation rate: No information available.

Flammability (solid, gas): Not flammable.

Ignition temperature (°C): No information available.

Upper/lower flammability/explosive limits: No information available.

Vapour pressure (20°C): No information available.

Vapour density: No information available.

Density: 1.0381 g/mL.

Water solubility (g/l) at 25°C: 90/l.

n-Octanol/Water partition coefficient: No information available.

Auto-ignition temperature: No information available.

Decomposition temperature: No information available.

Viscosity, dynamic (mPa s): No information available.

Physical hazards:

Explosive properties: Not explosive.

9.2 Other information:

Fat solubility (solvent-oil to be specified): No information available.

Bulk density: No information available.

Dissociation constant in water (p Ka): No information available.

Oxidation-reduction potential: No information available.

Safety Data Sheet (SDS) CARBONATE

Page 7 of 10

According to GHS 10th ED
Revision Date: 2024/04/15

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity:

The product is stable under normal conditions.

10.2 Chemical stability:

The product is stable.

10.3 Possibility of hazardous reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid:

High humidity.

10.5 Incompatible materials:

Strong oxidising agents and acids.

10.6 Hazardous decomposition products:

Carbon oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

11.2 Toxicokinetics, metabolism and distribution:

Non-human toxicological data: No Information available.

11.2 Information on toxicological effects:

Acute toxicity:

Acute toxicity oral LD₅₀ for rat 5 000 mg/kg.

Acute dermal LD₅₀ for rat >2000 mg/kg.

Inhalation LC₅₀ (4 h) for rat 5.38 mg/ℓ (dust/mists).

Chronic toxicity:

No known significant effects or critical hazards.

Skin corrosion/irritation:

No known significant effects or critical hazards.

Serious eye damage/irritation:

No known significant effects or critical hazards.

Respiratory or skin sensitization:

No known significant effects or critical hazards.

Germ cell mutagenicity:

No known significant effects or critical hazards.

Carcinogenicity:

Safety Data Sheet (SDS) CARBONATE

Page 8 of 10

According to GHS 10th ED

Revision Date: 2024/04/15

No known significant effects or critical hazards.

Reproductive toxicity:

No known significant effects or critical hazards

STOT-single exposure:

May cause respiratory irritation.

STOT-repeated exposure:

No known significant effects or critical hazards.

Aspiration hazard:

No known significant effects or critical hazards.

Other information: No information available.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity:

Honeybee (*Apis mellifera*) Acute Contact LD₅₀ 25 µg a.i./bee

12.2 Persistence and degradability:

No information available.

12.3 Bioaccumulative potential:

The products constituents are biodegradable.

12.4 Mobility in soil

Immobile.

12.5 Results of PBT& vPvB assessment:

No information available.

12.6 Other adverse effects:

No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Consider suitable waste recycling, re-use or recovery options. Dispose of in accordance with municipal, provincial and national regulations. Waste Classification and Management Regulations (GN 634 of 2013). Dispose and or manage in accordance with the requirements contained in R634 Waste Classification & Management Regulations, R635 National Norms & Standards for the Assessment of Waste for Landfill Disposal and R636 National Norms & Standards for Disposal of Waste to Landfill.

13.2 Product/ packaging disposal:

Shake all the pesticide formulation out of the bag into the spray or mixing tank. Turn the bag inside out. Hold the bag over the spray or mixing tank and rinse the bag with running water for thirty seconds. Shake the rinsate off into the

Safety Data Sheet (SDS) CARBONATE

Page 9 of 10

According to GHS 10th ED

Revision Date: 2024/04/15

tank. Repeat the rinsing twice. Do not bury, burn, or donate the bag to any other parties that may use it as a container for foodstuffs. These bags cannot be recycled and must be incinerated by a licensed incineration facility.

SECTION 14. TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	Not required.	Not required.	Not required.
UN Proper shipping name:	Not required.	Not required.	Not required.
Transport hazard class:	Not required.	Not required.	Not required.
Packaging group:	Not required.	Not required.	Not required.
Marine pollutant:	No	No	No
Special precautions for user:	Transport within user's premises: Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in bulk according to MARPOL 73/78 Annex II and the IBC code	Not applicable	Not applicable	Not applicable

Inland waterways: None

Emergency response information: None.

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 10, 2023.

ACGIH: American Conference of Governmental Industrial Hygienists (ACGIH).

Relevant information regarding restrictions: None.

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP]

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996). SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes. National Environmental Management: Waste Act 59 of 2008.

15.2 Chemical Safety Assessment carried out?

No

SECTION 16. OTHER INFORMATION

Indication of changes:

New SDS.

Safety Data Sheet (SDS) CARBONATE

Page 10 of 10

According to GHS 10th ED

Revision Date: 2024/04/15

Relevant classification and H statements (number and full text):

None.

Training instructions:

Use as indicated on the label, special training may be required for application.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.