

SAFETY DATA SHEET

According to
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: **SupaCobalt 2%**
 Product Use: Fertiliser additive
 Restriction of Use: Refer to Section 15

New Zealand Manufacturer: **Southstar Technologies**
 Address: 49 Hynds Drive
 Rolleston
 Christchurch
 New Zealand

Telephone: +64 21 043 7258
Emergency No: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 24 September 2023

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

Pictograms



Toxic/ Irritant



Chronic



Ecotoxic

Signal Word: **DANGER**

| HSNO Classification | Hazard Code | Hazard Statement | GHS Category |
|---------------------|-------------|--|---------------|
| 6.1D (oral) | H302 | Harmful if swallowed. | Acute Tox. 4 |
| 6.1D (inh) | H332 | Harmful if inhaled. | Acute Tox. 4 |
| 6.1E (dermal) | H313 | May be harmful in contact with skin. | Acute Tox. 5 |
| 6.3B | H316 | Causes mild skin irritation. | Skin Irrit. 3 |
| 6.4A | H319 | Causes serious eye irritation. | Eye Irrit. 2A |
| 6.5A | H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. | Resp. Sens. 1 |
| 6.5B | H317 | May cause an allergic skin reaction. | Skin Sens. 1 |
| 6.7B | H351 | Suspected of causing cancer. | Carc. 2 |
| 6.8B | H361 | Suspected of damaging fertility or the unborn child. | Repr. 2 |
| 6.9A | H372 | Causes damage to organs through prolonged or repeated exposure. | STOT RE 1 |
| 9.3B | H432 | Toxic to terrestrial vertebrates. | - |

| Prevention Code | Prevention Statement |
|------------------------|---|
| P102 | Keep out of reach of children. |
| P103 | Read label before use. |
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P260 | Do not breathe fumes, vapours and spray. |
| P264 | Wash hands thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective clothing as detailed in Section 8. |
| P281 | Use personal protective equipment as required. |
| P285 | In case of inadequate ventilation wear respiratory protection. |

| Response Code | Response Statement |
|----------------------|--|
| P101 | If medical advice is needed, have product container or label at hand. |
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |
| P330 | Rinse mouth. |
| P363 | Wash contaminated clothing before reuse. |
| P391 | Collect spillage. |
| P301 + P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P304 + P341 | IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. |
| P305 + P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308 + P313 | IF exposed or concerned: Get medical advice/ attention. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |
| P342 + P311 | If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. |

| Storage Code | Storage Statement |
|---------------------|--------------------------|
| P405 | Store locked up. |

| Disposal Code | Disposal Statement |
|----------------------|--|
| P501 | Dispose of according to Local Regulations or Authorities |

Section 3. Composition / Information on Hazardous Ingredients

| Ingredients | Wt% | CAS NUMBER. |
|-----------------------------|------------|--------------------|
| Calcium Carbonate | 95 | 471-34-1 |
| Cobalt Sulphate Monohydrate | 2-5 | 10124-43-3 |
| Non Hazardous ingredients | To bal | |

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

If on Skin Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation or rash occurs: get medical advice/attention.

If Swallowed Rinse mouth. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Call a POISON CENTER or doctor/physician if you feel unwell.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Harmful if swallowed.

Inhalation: Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin: May be harmful in contact with skin. Causes mild skin irritation. May cause an allergic skin reaction.

Eye: Causes serious eye irritation.

Chronic: Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

Section 5. Fire Fighting Measures

| | |
|---|--|
| Hazard Type | Non Flammable |
| Hazards from combustion products | None known. |
| Suitable Extinguishing media | Water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Precautions for firefighters and special protective clothing | When fighting a major fire wear self-contained breathing apparatus and protective equipment. |
| HAZCHEM CODE | None Allocated |

Section 6. Accidental Release Measures

Wear full protective clothing as detailed in Section 8. Evacuate all non-essential personnel from affected area. Ensure adequate ventilation.

In the event of a major spill, prevent spillage from entering drains or water courses.

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe fumes, vapours and spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.

- Use personal protective equipment as required.
- In case of inadequate ventilation wear respiratory protection.

Precautions for Storage:

- Store in a cool, dry and well ventilated area.
- Keep out of reach of children.
- Store locked up.
- Keep container tightly closed when not in use.
- Keep away from incompatible materials listed in Section 10.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

| Substance | TWA | | STEL | |
|-----------|-----|-------------------|------|-------------------|
| | ppm | mg/m ³ | ppm | mg/m ³ |

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

Engineering Controls

Ensure adequate ventilation.

Personal Protection Equipment



| | |
|--------------------|--|
| Eyes | Eye and face protectors for protection against splashing materials or liquids. |
| Skin | Impervious gloves. Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). |
| Respiratory | A dust/mist respirator should be used |

Section 9 Physical and Chemical Properties

| | |
|---|----------------|
| Appearance | Granule |
| Colour | Pink-Purple |
| Odour | Low odour |
| Odour Threshold | Not applicable |
| pH | Not applicable |
| Boiling Point | Not applicable |
| Melting Point | Not applicable |
| Freezing Point | Not applicable |
| Flash Point | Not applicable |
| Flammability | Non flammable |
| Upper and Lower Explosive Limits | Not applicable |
| Vapour Pressure | Not applicable |
| Vapour Density | Not applicable |
| Specific Gravity | 1.2 |

| | |
|----------------------------------|----------------|
| Water Solubility | Good |
| Partition Coefficient: | Not applicable |
| Auto-ignition Temperature | Not applicable |
| Decomposition Temperature | Not applicable |
| Kinematic Viscosity | Not applicable |
| Particle Characteristics | Not applicable |

Section 10. Stability and Reactivity

| | |
|---|---|
| Stability of Substance | This product is stable under normal conditions. |
| Possibility of hazardous reactions | Not available |
| Conditions to Avoid | Excessive temperatures |
| Incompatible Materials | Strong oxidising agents or reducing agents |
| Hazardous Decomposition Products | No hazardous decomposition products known. |

Section 11 Toxicological Information

Acute Effects:

| | |
|-------------------|--|
| Swallowed | Harmful if swallowed. |
| Dermal | May be harmful in contact with skin. |
| Inhalation | Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Eye | Causes serious eye irritation. |
| Skin | Causes mild skin irritation. May cause an allergic skin reaction. |

Chronic Effects:

| | |
|-------------------------------|---|
| Carcinogenicity | Suspected of causing cancer. |
| Reproductive Toxicity | Suspected of damaging fertility or the unborn child. |
| Germ Cell Mutagenicity | Not applicable. |
| Aspiration | Not applicable. |
| STOT/SE | Not applicable. |
| STOT/RE | Causes damage to organs through prolonged or repeated exposure. |

Individual component information:

Acute Toxicity:

| Chemical Name | Oral – LD50 | Dermal – LD50 | Inhalation – LC50 |
|---|--------------------|----------------------|--------------------------|
| Cobalt Sulphate Monohydrate (10124-43-3) | 435 mg/kg(rat) | - | - |

Section 12. Ecotoxicological Information

HSNO Classes: 9.3B = Toxic to terrestrial vertebrates.

| | |
|--------------------------------------|-------------------|
| Product: | |
| Persistence and degradability | No data available |
| Bioaccumulation | No data available |
| Mobility in Soil | No data available |
| Other adverse effects | No data available |

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:

Spent media that has removed toxic chemicals should be examined for specific hazards. Spilled product may be recovered for use if it has not come in contact with liquids or been exposed to significant amounts of gaseous contaminants. Dispose of according to Local Regulations.

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste – Carcinogenic" and that the label also has the Chronic Pictogram, waste type identifier, and the business name, address, and phone number.

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: Surface Coatings and Colourants (subsidiary) – HSR002679

HSNO Classification: 6.1D(oral, inh), 6.1E(dermal), 6.3B, 6.4A, 6.5A/B, 6.7B, 6.8B, 6.9A, 9.3B

| HSW (HS) Regulations 2017 and EPA Notices | Trigger Quantity |
|---|------------------------------------|
| Certified Handler | Not required |
| Location Certificate | Not required |
| Tracking Trigger Quantities | Not required |
| Signage Trigger Quantities | 1000L (9.3B) |
| Emergency Response Plan | 1000L (6.1D) |
| Secondary Containment | 1000L(6.1D) |
| Restriction of Use | Only use for the intended purpose. |

Section 16 Other Information

Glossary

| | |
|------------------|---|
| EC ₅₀ | Median effective concentration. |
| EEL | Environmental Exposure Limit. |
| EPA | Environmental Protection Authority |
| HSNO | Hazardous Substances and New Organisms. |
| HSW | Health and Safety at Work. |
| LC ₅₀ | Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it. |
| LD ₅₀ | Lethal dose to kill 50% of test animals/organisms. |
| LEL | Lower explosive level. |
| OSHA | American Occupational Safety and Health Administration. |
| TEL | Tolerable Exposure Limit. |
| TLV | Threshold Limit Value-an exposure limit set by responsible authority. |
| UEL | Upper Explosive Level |
| WES | Workplace Exposure Limit |

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

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