



SAFETY DATA SHEET

MANGANESE PICOLINATE

SECTION I – IDENTIFICATION

GHS Product Identifier: Manganese Picolinate
Product Code: 5400
Product Type: Powder

Identified Uses:

Ingredient for use in dietary supplements, food supplements, and other nutrition products.

Distributor: Bella Corp Trading Pty Ltd
Address: 6/34 Dominions Road, Ashmore QLD 4214, Australia
Telephone: 07 5597 4169
Email: bellacorp@bellacorp.com.au

SECTION II – HAZARDS IDENTIFICATION

This section of the SDS applies when the product is used or handled above recommended amounts.

OSHA/HCS Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the Substance or Mixture: ACUTE TOXICITY (oral) – Category 4
ACUTE TOXICITY (inhalation) – Category 4

GHS Label Elements:



Hazard Pictograms:
Signal Word: Warning.
Hazard Statements: Harmful if swallowed or if inhaled.

Precautionary Statements:

General: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention: Use only outdoors or in a well-ventilated area. Avoid breathing dust. Do not eat, drink, or smoke when using this product. Wash hands thoroughly after handling.
Response: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.
Storage: Not applicable.



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Disposal: Dispose of contents and container in accordance with all local, regional, national, and international regulations.

Hazards Not Otherwise Classified: None known.

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture.

Other Means of Identification: Not available.

CAS Number/Other Identifiers:

Product Code: 5400.

Ingredient Name	%	CAS#	Pure Substance Classification
Picolinic Acid	5 – 10	98-98-6	ACUTE TOXICITY (oral) – Category 4 ACUTE TOXICITY (inhalation) – Category 4 SKIN CORROSION/IRRITATION – Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION – Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) – Category 3

The exact percentage of the chemical has been withheld as a trade secret.

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 IV – FIRST AID MEASURES

This section of the SDS applies when the product is used or handled above recommended amounts.

Description of Necessary First Aid Measures:

Eye Contact: In case of contact, immediately flush eyes with water for at least 15 minutes, preferably using an eyewash station. Remove any contact lens as soon as practical to do so. Get immediate medical attention if irritation occurs.

Inhalation: Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Skin Contact: Wash with soap and water for at least 15 minutes. Get immediate medical attention if irritation develops.

Ingestion: Do NOT induce vomiting. Rinse mouth. Do not give anything by mouth to an unconscious person.



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Most Important Symptoms/Effects, Acute and Delayed:

Potential Acute Health Effects:

Eye Contact: No known significant effects or critical hazards.
Inhalation: No known significant effects or critical hazards.
Skin Contact: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.

Over-Exposure Signs/Symptoms:

Eye Contact: No known significant effects or critical hazards.
Inhalation: No known significant effects or critical hazards.
Skin Contact: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.

Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary:

Notes to Physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Specific Treatments: No specific treatment.

Protection of First-Aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

SECTION V – 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 hazards.

Hazardous Thermal Decomposition Products: Decomposition products may include the following materials:
- carbon dioxide
- carbon monoxide
- nitrogen oxides
- metal oxide/oxides

Special Protective Actions for Fire-Fighters: No special measures are required.

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.



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SECTION VI – ACCIDENTAL RELEASE MEASURES

This section of the SDS applies when the product is used or handled above recommended amounts.

Personal Precautions, Protective Equipment, and Emergency Procedures:

- For Non-Emergency Personnel:** 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:** Not applicable.

Methods and Materials for Containment and Cleaning Up:

Spill: Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: See Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION VII – HANDLING AND STORAGE

This section of the SDS applies when the product is used or handled above recommended amounts.

Precautions for Safe Handling:

- Protective Measures:** Put on appropriate personal protective equipment (see Section 8).
- Advice on General Occupational Hygiene:** Normal good industrial hygiene.
- Conditions for Safe Storage, Including Any Incompatibilities:** Store in accordance with local regulations. Keep container tightly closed and sealed until ready for use.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

Proper personal protective equipment should be selected and worn when handling this product, as based on a risk assessment performed by a qualified person.

Control Parameters:

- Occupational Exposure Limits:** None.
- Appropriate Engineering Controls:** Handle in accordance with good industrial hygiene and safety practice. Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.



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Environmental Exposure Controls:	In some cases, dust collection, filters, or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
<u>Individual Protection Measures:</u>	
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:	Safety glasses with side-shields conforming to EN166/ANSI Z87 additional eye/face protection may be appropriate.
<u>Skin Protection:</u>	
Hand Protection:	Handle with gloves. Gloves must be inspected prior to use to ensure there are no holes or tears. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of gloves after use in accordance with applicable laws and good industry practices. Wash and dry hands.
Body Protection:	Wear appropriate clothing such as long sleeves and/or protective coveralls. The type of protective clothing must be selected according to the type, concentration, and amount of the substance(s) at the specific workplace.
Other Skin Protection:	Not required under normal conditions of use.
Respiratory Protection:	For nuisance exposures, use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection, use type P100 (US) or type P3 (EU EN 143) respirator cartridge. 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 symptoms are experienced.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance:</u>	
Physical State:	Solid. [Powder.]
Color:	Light tan to light orange.
Odor:	Characteristic.
Odor Threshold:	Not available.
pH:	3 – 6.
Melting Point:	Not available.
Boiling Point:	Not available.
Flash Point:	Not applicable.
Evaporation Rate:	Not applicable.



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Flammability (solid, gas):	Not available.
Lower and Upper Explosive (Flammable) Limits:	Not available.
Vapor Pressure:	Not applicable.
Vapor Density:	Not applicable.
Relative Density:	Not available.
Solubility:	Not available.
Partition Coefficient: n-octanol/water:	Not available.
Auto-Ignition Temperature:	Not available.
Decomposition Temperature:	Not available.
Viscosity:	Not applicable.

SECTION X – 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:	Reactive or incompatible with the following materials: oxidizing materials and acids.
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION XI – TOXICOLOGICAL INFORMATION

Information on Toxicological Effects:

Acute Toxicity:

There is no data available.

Irritation/Corrosion:

There is no data available.

Sensitization:

There is no data available.

Carcinogenicity:

There is no data available.

Specific Target Organ Toxicity (single exposure):

Name	Category	Route of Exposure	Target Organs
Picolinic Acid	Category 3	Not applicable	Respiratory tract irritation

Specific Target Organ Toxicity (repeated exposure):

There is no data available.



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Aspiration Hazard:

There is no data available.

Information on the Likely Routes of Exposure: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects:

Eye Contact: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards.

Skin Contact: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

Eye Contact: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards.

Skin Contact: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Delayed and Immediate Effects and also Chronic Effects from Short and Long-Term Exposure:

Short-Term Exposure:

Potential Immediate Effects: No known significant effects or critical hazards.

Potential Delayed Effects: No known significant effects or critical hazards.

Long-Term Exposure:

Potential Immediate Effects: No known significant effects or critical hazards.

Potential Delayed Effects: No known significant effects or critical hazards.

Potential Chronic Health Effects:

General: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental Effects: No known significant effects or critical hazards.

Fertility Effects: No known significant effects or critical hazards.

Numerical Measures of Toxicity:

Acute Toxicity Estimates:

Route	ATE Value
Oral	735.3 mg/kg
Inhalation (vapors)	16.18 mg/L



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SECTION XII – ECOLOGICAL INFORMATION

Toxicity:

There is no data available.

Persistence and Degradability:

There is no data available.

Bio-Accumulative Potential:

Product/Ingredient Name	LogP _{ow}	BCF	Potential
Picolinic Acid	0.72	-	low

Mobility in Soil:

Soil/Water Partition Coefficient (K_{oc}): Not available.

Other Adverse Effects: No known significant effects or critical hazards.

SECTION XIII – DISPOSAL CONSIDERATIONS

Disposal Methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions, and any byproducts should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

SECTION XIV – TRANSPORT INFORMATION

	DOT Classification	IMDG	IATA
UN Number	Not regulated.	Not regulated.	Not regulated.
UN Proper Shipping Name	-	-	-
Transport Hazard Class(es)	-	-	-
Packing Group	-	-	-
Environmental Hazards	No.	No.	No.
Additional Information	-	-	-

AERG: Not applicable.

Special Precautions for User: **Transport within user's premises:** Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.



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Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not available.

SECTION XV – REGULATORY INFORMATION

U.S. Federal Regulations:

TSCA 8(a) CDR Exempt/Partial Exemption: Not determined.
 Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs): Listed.
 Clean Air Act Section 602 Class I Substances: Not listed.
 Clean Air Act section 602 Class II Substances: Not listed.
 DEA List I Chemicals (Precursor Chemicals): Not listed.
 DEA List II Chemicals (Essential Chemicals): Not listed.

SARA 302/304:

Composition/Information on Ingredients:

No products were found.

SARA 304 RQ: Not applicable.

SARA 311/312:

Classification: Immediate (acute) health hazard

Composition/Information on Ingredients:

Name	%	Fire Hazard	Sudden Release of Pressure	Reactive	Immediate (Acute) Health Hazard	Delayed (Chronic) Health Hazard
Picolinic Acid	5 – 10	No.	No.	No.	Yes.	No.

SARA 313

	Product Name	CAS#	%
Form R – Reporting Requirements	Manganese Carbonate	598-62-9	1 – 5
Supplier Notification	Manganese Carbonate	598-62-9	1 – 5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to the copies of the SDS subsequently redistributed.

State Regulations:

Massachusetts: None of the components are listed.
 New York: None of the components are listed.
 New Jersey: None of the components are listed.
 Pennsylvania: None of the components are listed.



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California Prop. 65:

No products were found.

International Regulations:

International Lists:

- **Australia inventory (AICS):** Not determined.
- **China inventory (IECSC):** Not determined.
- **Japan inventory:** Not determined.
- **Korea inventory:** Not determined.
- **Malaysia Inventory (EHS Register):** Not determined.
- **New Zealand Inventory of Chemicals (NZIoC):** Not determined.
- **Philippines inventory (PICCS):** Not determined.
- **Taiwan inventory (CSNN):** Not determined.

Chemical Weapons Convention List Schedule I Chemicals: Not listed.

Chemical Weapons Convention List Schedule II Chemicals: Not listed.

Chemical Weapons Convention List Schedule III Chemicals: Not listed.

SECTION XVI – OTHER INFORMATION

History:

Date of Issue mm/dd/yyyy: 09/05/2017.

Version: 1.

Revised Section(s): Not applicable.

Key to Abbreviations:

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labeling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978.

("Marpol" = marine pollution)

UN = United Nations

Notice to reader

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.