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This revision issued: July, 2020

## Section 1 - Identification of The Material and Supplier

J.C. & A.T. Searle Pty Ltd

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**Trade Name:** 

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Chemical nature: Manganese sulphate is an inorganic salt.

**Product Use:** Addresses manganese deficiencies in garden soils.

Searles Manganese Sulphate

Creation Date: September, 2010

This version issued: July, 2020 and is valid for 5 years from this date.

Poisons Information Centre: Phone 13 1126 from anywhere in Australia

## Section 2 - Hazards Identification

#### **Statement of Hazardous Nature**

This product is classified as: Xn, Harmful. N, Dangerous to the environment. Hazardous according to the criteria of SWA.

Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

SUSMP Classification: None allocated.

ADG Classification: None allocated. Not a Dangerous Good under the ADG Code.

**UN Number:** None allocated









Phone: 07 5422 3000

# GHS Signal word: DANGER.

Acute Toxicity Oral Category 4

Serious eye damage Category 1

Specific Target Organ toxicity - repeated exposure Category 1

Hazardous to aquatic environment Short term/Chronic Category 2

#### HAZARD STATEMENT:

H302: Harmful if swallowed.

H318: Causes serious eye damage.

H372: Causes damage to organs through prolonged or repeated exposure.

H411: Toxic to aquatic life with long lasting effects.

#### **PREVENTION**

P260: Do not breathe fumes, mists, vapours or spray.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash contacted areas thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear protective gloves, protective clothing and eye or face protection.

#### **RESPONSE**

P335: Brush off loose particles from skin.

P353: Rinse skin or shower with water.

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice.

P370+P378: In case of fire, use carbon dioxide, dry chemical, foam, water fog.

#### **STORAGE**

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P410: Protect from sunlight.

P402+P404: Store in a dry place. Store in a closed container.

P403+P235: Store in a well-ventilated place. Keep cool.

#### **DISPOSAL**

P501: If product can not be recycled, consider controlled incineration, or contact a specialist waste disposal company (see Section 13 of this SDS).

## **Emergency Overview**

Physical Description & Colour: Reddish coloured crystalline solid.

Odour: No odour.

Major Health Hazards: harmful if swallowed, causes serious eye damage, causes damage to organs through prolonged exposure if swallowed or inhaled.

## Section 3 - Composition/Information on Ingredients

CAS No TWA (mg/m<sup>3</sup>) STEL (mg/m<sup>3</sup>) Ingredients Conc,%

7785-87-7 Manganese sulfate pure \* not set not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

#### Section 4 - First Aid Measures

#### **General Information:**

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Skin Contact: Gently brush away excess particles. Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed.

Eye Contact: Quickly and gently brush particles from eyes. No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.

**Ingestion:** If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

## **Section 5 - Fire Fighting Measures**

Fire and Explosion Hazards: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

No fire decomposition products are expected from this product at temperatures normally achieved in a fire.

Fire decomposition products from this product are not expected to be hazardous or harmful.

**Extinguishing Media:** Not Combustible. Use extinguishing media suited to burning materials.

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash point: Does not burn. **Upper Flammability Limit:** Does not burn. **Lower Flammability Limit:** Does not burn.

Autoignition temperature: Not applicable - does not burn.

Flammability Class: Does not burn.

#### Section 6 - Accidental Release Measures

Accidental release: This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern. For minor spills, clean up, rinsing to sewer and put empty container in garbage. Although no special protective clothing is normally necessary because of occasional minor contact with this product, it is good

<sup>\*</sup> Commercially pure. May include small quantities of materials due to manufacturing or reaction processes.

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practice to wear impermeable gloves when handling chemical products. In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services.

## Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: Make sure that containers of this product are kept tightly closed. Keep containers dry and away from water. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Check packaging - there may be further storage instructions on the label.

## **Section 8 - Exposure Controls and Personal Protection**

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210.

#### TWA (mg/m<sup>3</sup>) STEL (mg/m<sup>3</sup>) **SWA Exposure Limits**

Exposure limits have not been established by SWA for this product.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Ventilation:** No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that dusts are minimised.

Eye Protection: Eye protection such as protective glasses or goggles is recommended when this product is being used.

Skin Protection: The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when skin contact is likely.

Protective Material Types: We suggest that protective clothing be made from the following materials: cotton, rubber, PVC.

**Respirator:** If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable Dust Mask.

Safety deluge showers should, if practical, be provided near to where this product is being used.

## **Section 9 - Physical and Chemical Properties:**

**Physical Description & colour:** Reddish coloured crystalline solid.

**Odour:** No odour. **Boiling Point:** Not applicable.

**Freezing/Melting Point:** Solid at normal temperatures; decomposes about 850°C

Volatiles: No specific data. Expected to be low at 100°C.

**Vapour Pressure:** Nil at normal ambient temperatures.

Vapour Density: Not applicable. **Specific Gravity:** 3.25 approx Water Solubility: Very soluble.

:Ha No data. Expected to be slightly acidic. **Volatility:** Nil at normal ambient temperatures.

**Odour Threshold:** No data. **Evaporation Rate:** Not applicable. Coeff Oil/water Distribution: No data **Viscosity:** Not applicable.

## Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: Keep containers tightly closed. Containers should be kept dry.

**Incompatibilities:** strong oxidising agents, strong reducing agents, zinc, tin, aluminium and their alloys.

Fire Decomposition: No significant quantities of decomposition products are expected at temperatures normally achieved in a fire.

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**Polymerisation:** This product will not undergo polymerisation reactions.

## **Section 11 - Toxicological Information**

**Local Effects:** 

**Target Organs:** There is no data to hand indicating any particular target organs.

## **Classification of Hazardous Ingredients**

Ingredient Risk Phrases

Manganese Sulfate Conc>=10%: Xn; R48/20/22

Acute toxicity – category 4

- Eye damage category 1
- Specific target organ toxicity (repeated exposure) category 1
- Hazardous to the aquatic environment (chronic) category 2

## **Potential Health Effects**

### Inhalation:

**Short Term Exposure:** Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation.

Long Term Exposure: danger of serious damage to health by prolonged exposure through inhalation.

#### **Skin Contact:**

**Short Term Exposure:** Available data indicates that this product is not harmful. It should present no hazards in normal use. However product may be mildly irritating, but is unlikely to cause anything more than mild discomfort which should disappear once contact ceases.

Long Term Exposure: No data for health effects associated with long term skin exposure.

#### **Eye Contact:**

**Short Term Exposure:** This product causes serious eye damage. Effects may be reversible if exposure is brief, but if product is not removed immediately, permanent damage is expected.

Long Term Exposure: No data for health effects associated with long term eye exposure.

## Ingestion:

**Short Term Exposure:** Significant oral exposure is considered to be unlikely. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

**Long Term Exposure:** danger of serious damage to health by prolonged exposure if swallowed.

## **Carcinogen Status:**

**SWA:** No significant ingredient is classified as carcinogenic by SWA. **NTP:** No significant ingredient is classified as carcinogenic by NTP. **IARC:** No significant ingredient is classified as carcinogenic by IARC.

## **Section 12 - Ecological Information**

Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment. This product is unlikely to adversely effect the environment. Salts, acids and bases are typically diluted and neutralised when released to the environment in small quantities.

## **Section 13 - Disposal Considerations**

**Disposal:** Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

## **Section 14 - Transport Information**

**UN Number:** This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

### **Section 15 - Regulatory Information**

**AICS:** This product is compliant with NICNAS regulations.

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## **Section 16 - Other Information**

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

Australian Code for the Transport of Dangerous Goods by Road and Rail (7<sup>th</sup> edition) **ADG Code** 

**AICS** Australian Inventory of Chemical Substances **SWA** Safe Work Australia, formerly ASCC and NOHSC **CAS** number Chemical Abstracts Service Registry Number

**Hazchem Code** Emergency action code of numbers and letters that provide information to emergency

services especially firefighters

**IARC** International Agency for Research on Cancer

NOS Not otherwise specified

**NTP** National Toxicology Program (USA)

Risk Phrase R-Phrase

Standard for the Uniform Scheduling of Medicines & Poisons SUSMP

**UN Number** United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (Feb 2016)

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