

Barentz.

Barentz Ingredients Canada Inc.
141 Hamilton Rd
New Hamburg, ON, N3A 2H1
Canada
800-565-2474

PRODUCT: Manganese Sulphate Powder 32%**SECTION 1: IDENTIFICATION**

SUPPLIER IDENTIFIER..... Barentz Ingredients Canada Inc.
141 Hamilton Rd
New Hamburg
ON
Canada
N3A 2H1
800-565-2474

PRODUCT CODE..... CA-87-HFOMNSUPF50-BG
PRODUCT IDENTIFIER..... Manganese Sulphate Powder 32%
OTHER MEANS OF IDENTIFICATION.... Manganese Sulphate Monohydrate .
RECOMMENDED USE..... Fertilizer.
RESTRICTIONS ON USE..... Not available .
EMERGENCY TELEPHONE NUMBER.... Barentz (519) 964-8708 .

SECTION 2: HAZARD IDENTIFICATION

HAZARD CLASSIFICATION..... Serious eye damage- Category 1. Hazardous to the aquatic environment, long-term (Chronic)- Chronic 2 . Specific target Organ toxicity-repeated exposure- Category 2 .

SIGNAL WORD..... Danger .

HAZARD STATEMENT..... H318- Causes serious eye damage . H411- Toxic to aquatic life with long lasting effects .
H373- May cause damage to organs brain through prolonged or repeated exposure if inhaled.

PRECAUTIONARY STATEMENT..... P260 Do not breathe dust, fume, gas, mist, vapours, or spray . P273-Avoid release to the environment . P280 Wear protective gloves, protective clothing, eye protection, face protection, hearing protection . P305 + P351 + P338 + P316 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing . P319 Get medical help if you feel unwell. P316 Get emergency medical help immediately . P391 Collect spillage . P501 Dispose of contents and container in accordance with local, regional, national, and international regulations .

OTHER HAZARDS..... No specific data available .

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	COMMON NAME & SYNONYMS	CAS #	WT. %
Manganese Sulphate Monohydrate	N/A	10034-96-5	98.6

SECTION 4: FIRST-AID MEASURES

ROUTES OF EXPOSURE

INHALATION..... Remove person to fresh air . Keep person in comfortable resting position for breathing . Call a poison center or doctor/physician if you are feeling unwell .

INGESTION..... Do NOT induce vomiting, never make an unconscious person vomit or drink fluids . Provide rest, warmth and fresh air . Drink plenty of water, get medical attention . Remove victim immediately from source of exposure .

SKIN CONTACT..... Remove affected person from source of contamination . Get medical attention promptly if symptoms occur after washing . Wash skin with soap and water . Remove contaminated clothing .

EYE CONTACT..... Flush with water for at least 15 minutes while holding eyelids open . Check for and remove any contact lenses . Get medical attention if irritation develops and persists .

SYMPTOMS AND EFFECTS..... Not available .

IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT Treat symptomatically .

PRODUCT: Manganese Sulphate Powder 32%**SECTION 5: FIRE-FIGHTING MEASURES**

SUITABLE AND UNSUITABLE Use an extinguishing agent suitable for surrounding fire . Carbon dioxide . Dry chemical .
 EXTINGUISHING MEDIA Water . Keep run-off water out of sewers and water sources .
 SPECIFIC HAZARDS..... When heated and in case of fire, irritating vapors/gases may be formed . In case of firm, toxic gases may be formed.

HAZARDOUS COMBUSTION PRODUCTS No specific data .
 SPECIAL PROTECTIVE EQUIPMENT Wear self-contained breathing apparatus and protective clothing .
 AND PRECAUTIONS FOR FIRE-FIGHTERS

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS & Use personal protective equipment . Ensure adequate ventilation . Wash thoroughly after
 PROTECTIVE EQUIPMENT handling .
 EMERGENCY PROCEDURES..... Prevent further leakage or spillage if safe to do so . Avoid dispersal of spilled material to minimize contamination of drains, surface and ground waters . Keep unnecessary and unprotected personnel away .

METHODS AND MATERIALS FOR Recover the product by vacuuming, shoveling or sweeping . Keep in suitable, properly
 CONTAINMENT AND CLEANING UP labeled, closed containers for disposal . Dispose of in accordance with all Local, State and Federal regulations at an approved waste disposal facility .

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING.. Handle in accordance with good industrial hygiene and safety practice . Wear personal protective equipment . Use only with adequate ventilation . Static electricity and formation of sparks must be prevented . Eliminate all sources of ignition . Keep container closed.

CONDITIONS FOR SAFE STORAGE..... Store in accordance with local regulations . Store in a well-ventilated place . Store in a cool dry place . Keep containers tightly closed when not in use .

INCOMPATIBILITIES..... Strong oxidizing substances . Strong reducing agents .

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Manganese Sulphate Monohydrate	0.5mg/m3	Not Available	Not Available	Not Available	Not Available	Not Available
APPROPRIATE ENGINEERING CONTROLS	Ensure adequate ventilation. Eyewash stations.					
PERSONAL PROTECTIVE EQUIPMENT RESPIRATORY PROTECTION.....	Ensure adequate ventilation.If ventilation is insufficient, suitable respiratory protection must be provided.					
HAND PROTECTION.....	Chemical-resistant, impervious gloves complying with an approved standard.					
EYE PROTECTION.....	Use close fitting safety goggles complying with an approved standard.					
SKIN PROTECTION.....	Handle in accordance with good industrial hygiene and safety practice . Use appropriate skin cream to prevent drying of skin . Wash promptly with soap & water if skin becomes contaminated . Promptly remove any clothing that becomes contaminated . Wash at the end of each work shift and before eating, smoking and using the toilet . Do not smoke in work area . Wear suitable protective clothing and suitable protective footwear .					

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... Solid .
 COLOR..... Violet .
 ODOUR..... Odorless .
 MELTING POINT..... Not available .
 FREEZING POINT..... Not available .
 BOILING POINT..... 850 deg.C @ 160 mm Hg .
 BOILING RANGE..... Not available .
 FLAMMABILITY..... Not applicable .
 LOWER FLAMMABILITY LIMIT..... Not available .
 UPPER FLAMMABILITY LIMIT..... Not available .
 FLASH POINT..... Not available .
 AUTO-IGNITION TEMPERATURE..... Not available .
 DECOMPOSITION TEMPERATURE..... Not available .
 pH..... Not available .
 KINEMATIC VISCOSITY..... Not available .
 SOLUBILITY..... Soluble in water .
 PARTITION COEFFICIENT - Not available .
 N-OCTANOL/WATER

PRODUCT: Manganese Sulphate Powder 32%**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

VAPOUR PRESSURE..... Not available .
 DENSITY..... Not available .
 RELATIVE DENSITY..... 2.95 .
 RELATIVE VAPOUR DENSITY..... Not available .
 PARTICLE CHARACTERISTICS Not available .

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY..... No specific test data related to reactivity available for this product or its ingredients . Stable at ambient temperature and under normal conditions of use .
 CHEMICAL STABILITY..... Stable under normal conditions .
 POSSIBILITY OF HAZARDOUS REACTIONS Under normal conditions of storage and use, hazardous reactions will not occur .
 CONDITIONS TO AVOID..... Avoid heat, flames and other sources of ignition . Avoid excessive heat for prolonged periods of time . Avoid exposure to high temperatures or direct sunlight .
 INCOMPATIBLE MATERIALS..... Strong oxidizing substances . Strong reducing agents .
 HAZARDOUS DECOMPOSITION PRODUCTS Fire creates: Toxic gases/vapors/fumes of: Carbon monoxide (CO), Carbon dioxide (CO₂) and Sulphurous gases (SO_x) .

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
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Manganese Sulphate Monodydrate.	Not Available	Not Available
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ROUTES OF EXPOSURE

EYE CONTACT..... May cause severe irritation to eyes.
 SKIN CONTACT..... Act as a deflating agent on skin. Prolonged or repeated exposure may cause severe irritation. May cause cracking of skin, and eczema .
 INHALATION..... Prolonged inhalation of high concentrations may damage respiratory system.
 INGESTION..... May cause nausea, stomach, headache, dizziness and intoxication.
 SYMPTOMS..... No data available .

TOXICOLOGICAL CHARACTERISTICS

IRRITATION/CORROSION..... No data available.
 CARCINOGENICITY..... No data available.
 SENSITIZATION..... No data available.
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)..... No data available.
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)..... No data available.
 ASPIRATION HAZARD..... No data available.
 DELAYED AND IMMEDIATE EFFECTS... No known significant effects or critical hazards.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY..... Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 PERSISTENCE AND DEGRADABILITY... No data available.
 BIOACCUMULATIVE POTENTIAL..... No data available.
 MOBILITY IN SOIL..... No data available.
 OTHER ADVERSE EFFECTS..... No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

HANDLING PROCEDURES..... The generation of waste should be avoided or minimized wherever possible .
 METHODS OF DISPOSAL..... Dispose in accordance with local, regional, national, international regulations .
 CONTAMINATED PACKAGING..... Since empty containers may retain product residue, follow label warnings even after container is emptied .

SECTION 14: TRANSPORT INFORMATION

TDG / DOT..... Regulated.
 UN NUMBER..... UN 3077.
 PROPER SHIPPING NAME..... ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Manganese Sulphate)
 CLASS..... 9.
 PACKING GROUP..... III .
 IMDG..... Regulated.
 UN NUMBER..... UN 3077.

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CLASS..... 9.
 PACKING GROUP..... III.

ENVIRONMENTAL HAZARDS..... Marine Pollutant.
 TRANSPORT IN BULK ACCORDING TO ANNEX II MARPOL 73/78 AND THE IBC CODE Not available.

SPECIAL PRECAUTIONS..... Read safety instructions, SDS and emergency procedures before handling.

SECTION 15: REGULATORY INFORMATION

DSL..... Not Listed .
 TSCA..... Not Listed .

SECTION 16: OTHER INFORMATION

DISCLAIMER..... All information in this SDS is based upon data obtained from the manufacturer and/or recognized technical sources. This information is believed to be accurate and is offered only as a guide to the handling of this specific material and conditions. The use and handling of this material may require alternate and additional considerations. No warranty of any kind is given or implied and the company will not be liable for any damages, losses, injuries or consequential damages which may result from the information contained herein .

PREPARED BY..... Regulatory Affairs
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