

Barentz.

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

PRODUCT: Manganese Sulphate Powder 32% FERT**SECTION 01: IDENTIFICATION**

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

PRODUCT CODE..... CA-87-HFOMNSUPA1200-TT

OTHER MEANS OF IDENTIFICATION.... Sulfuric acid, manganese salt monohydrate, Manganous Sulphate .

PRODUCT IDENTIFIER..... Manganese Sulphate Powder 32% FERT

RECOMMENDED USE..... No information available .

RESTRICTIONS ON USE..... Not available .

EMERGENCY TELEPHONE NUMBER.... Barentz (519-662-2877) .

SECTION 02: HAZARD IDENTIFICATION

HAZARD CLASSIFICATION..... R48/20/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed . R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment .

SIGNAL WORD..... Warning .

HAZARD STATEMENT..... Harmful if swallowed or inhaled . Keep out of reach of Children! . Do not breathe dust . May affect central nervous system, blood and respiratory system . harmful if inhaled, may cause respiratory tract irritation . Harmful if swallowed, may cause gastrointestinal irritation with nausea, vomiting and diarrhea . May cause skin irritation, low hazard for usual industrial handling . May cause mild eye irritation . May cause irritation to skin, eyes and respiratory tracts . Affects lungs, central nervous system, blood and kidneys .

PRECAUTIONARY STATEMENT..... Wash thoroughly after handling . Wear work gloves, safety goggles, breathing mask and overalls when handling . Avoid release to environment . Do not breathe dust .

OTHER HAZARDS..... Chronic manganese poisoning can result from excessive inhalation and ingestion exposure and involves impairment of the central nervous system . Chronic inhalation exposure can cause lung damage . Kidney effects, blood changes and manganese psychosis also may occur as a result of chronic exposure .

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Manganese Sulphate Monohydrate	10034-96-5	98-100

SECTION 04: FIRST-AID MEASURES

ROUTES OF EXPOSURE

INHALATION..... Remove victim to fresh air . Seek medical attention . Employ artificial respiration if indicated .

INGESTION..... If victim is conscious and alert, give 2-4 cupful of milk or water . Seek medical attention . Never give anything by mouth to an unconscious person .

SKIN CONTACT..... Flush affected area with plenty of water and mild detergent for several minutes . Seek medical advice if effects persist . Remove contaminated clothing and wash before re-use .

EYE CONTACT..... Flush eyes with plenty of water for at least 15 minutes . Seek medical advice if effects persist .

SYMPTOMS AND EFFECTS..... Not available .

IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT
Treat symptomatically .

PRODUCT: Manganese Sulphate Powder 32% FERT**SECTION 05: FIRE-FIGHTING MEASURES**

SUITABLE AND UNSUITABLE Use an extinguishing agent suitable for surrounding fire . Carbon dioxide . Dry chemical .
 EXTINGUISHING MEDIA Water .
 HAZARDOUS COMBUSTION PRODUCTS No information available .
 SPECIFIC HAZARDS..... No specific data .
 SPECIAL PROTECTIVE EQUIPMENT Wear self-contained breathing apparatus and protective clothing . The use of fire
 AND PRECAUTIONS FOR extinguishers of the chlorinated hydrocarbon type is not recommended, as toxic products
 FIRE-FIGHTERS will probably be produced by the decomposition of the extinguishing medium when it come
 into contact with hot manganese compounds . Use suitable protective equipment for
 surrounding fire .

SECTION 06: 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 . Prevent dust cloud .
 Prevent entry into waterways, drains, confined areas . Don't touch or walk through this
 product .
 METHODS AND MATERIALS FOR Dispose of in accordance with all Local, State and Federal regulations at an approved
 CONTAINMENT AND CLEANING UP waste disposal facility . Use clean non-sparking tools to collect material and place it into
 loosely-covered plastic containers for later disposal .

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING.. Wash hands before eating . Avoid prolonged or repeated exposure . Avoid contacting skin,
 eyes and clothing . Avoid breathing dust . Use with adequate ventilation .
 CONDITIONS FOR SAFE STORAGE..... Keep in a tightly closed container, store in a cool dry ventilated place . Isolate from all
 incompatible substances . Protect against physical damage .
 INCOMPATIBILITIES..... Strong oxidizing agents, strong acid, aluminum and magnesium .

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
APPROPRIATE ENGINEERING CONTROLS	Use in a well-ventilated area . ACGIH TLV: 0.2mg / CBM (TWA) for manganese, elemental and inorganic compounds as Mn . OSHA PEL: 5 mg / CBM Ceiling for manganese compounds as Mn . Use adequate exhaust ventilation to keep airborne concentrations below the allowable exposure limit.					
PERSONAL PROTECTIVE EQUIPMENT						
RESPIRATORY PROTECTION.....	Approved or certified respirators .					
HAND PROTECTION.....	Chemical-resistant, impervious gloves complying with an approved standard .					
EYE PROTECTION.....	Wear appropriate protective eyeglasses or chemical safety goggles .					
SKIN PROTECTION.....	Handle in accordance with good industrial hygiene and safety practice . Wear protecting clothing that minimizes exposed skin .					

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE..... Solid, slightly pink powder .
 ODOUR..... Odorless .
 ODOUR THRESHOLD..... Not available .
 pH..... 5.0 – 7.0 .
 MELTING POINT..... 200 Deg.C .
 FREEZING POINT..... Not available .
 BOILING POINT..... Not available .
 BOILING RANGE..... Not available .
 FLASH POINT..... Not available .
 EVAPORATION RATE..... Not available .
 FLAMMABILITY (SOLIDS AND GASES).. Not available .
 UPPER FLAMMABILITY LIMIT..... Not available .
 LOWER FLAMMABILITY LIMIT..... Not available .
 VAPOUR PRESSURE..... Not available .
 VAPOUR DENSITY..... Not available .
 SOLUBILITY..... Easily soluble in water, insoluble in ethanol .
 PARTITION COEFFICIENT - Not available .
 N-OCTANOL/WATER
 AUTO-IGNITION TEMPERATURE..... Not available .
 DECOMPOSITION TEMPERATURE..... 200 Deg.C .
 VISCOSITY..... Not available .

PRODUCT: Manganese Sulphate Powder 32% FERT**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

SPECIFIC GRAVITY 2.95 .

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY..... No specific test data related to reactivity available for this product or its ingredients .
 CHEMICAL STABILITY..... Stable under normal temperature and pressures .
 POSSIBILITY OF HAZARDOUS REACTIONS..... Under normal conditions of storage and use, hazardous reactions will not occur .
 REACTIONS
 CONDITIONS TO AVOID..... Incompatible materials, exposure to moist air or water, excessive heat .
 INCOMPATIBLE MATERIALS..... Strong oxidizing agents, strong acid, aluminum and magnesium .
 HAZARDOUS DECOMPOSITION PRODUCTS..... Carbon Dioxide, sulfur oxides, oxides of manganese .

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
ROUTES OF EXPOSURE EYE CONTACT..... No information available . SKIN CONTACT..... No information available . INHALATION..... No information available . INGESTION..... No information available . SYMPTOMS..... Chronic Effects on Human: The substance is toxic to lungs, central nervous system (CNS), liver and kidney . Chronic inhalation exposure can cause lung damage . Kidney effects, blood changes and manganese psychosis also may occur as a result of long-term exposure . Illness closely resembles Parkinson's Disease . Advanced cases have shown fixed facial expression, emotional disturbances, spastic gait, and falling . Early symptoms include sluggishness, sleepiness, and weakness in the legs . Chronic manganese poisoning can result from excessive inhalation and ingestion exposure and involves impairment of the central nervous system .		
TOXICOLOGICAL CHARACTERISTICS.. No information available . IRRITATION/CORROSION..... No information available . CARCINOGENICITY..... Not listed as a suspected/confirmed carcinogen by ACGIH, IARC, NTP, OSHA . SENSITIZATION..... No information available . SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)..... No information available . SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)..... No information available . ASPIRATION HAZARD..... No information available . DELAYED AND IMMEDIATE EFFECTS... No information available . MUTAGENICITY Possible for human . Laboratory experiments have shown mutagenic effects . REPRODUCTIVE TOXICITY May damage the reproductive system . TERATOGENICITY Teratogenic effects shown in lab animals .		

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY..... This product is classified as an environmental factor by EC with the phrases N R51-53 .
 PERSISTENCE AND DEGRADABILITY... No data available.
 BIOACCUMULATIVE POTENTIAL..... No data available .
 MOBILITY IN SOIL..... No data available .
 OTHER ADVERSE EFFECTS..... Do not discharge into drains or rivers .

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..... Not regulated .
 UN NUMBER
 PROPER SHIPPING NAME
 CLASS
 PACKING GROUP
 IMDG..... Not regulated.
 UN NUMBER
 PROPER SHIPPING NAME

PRODUCT: Manganese Sulphate Powder 32% FERT**SECTION 14: TRANSPORT INFORMATION**

CLASS
 PACKING GROUP
 IATA..... Not regulated .
 UN NUMBER
 PROPER SHIPPING NAME
 CLASS
 PACKING GROUP
 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

WHMIS 1988 CLASSIFICATION..... Not available.
 TOXIC SUBSTANCES CONTROL ACT
 (TSCA) Listed .
 CANADIAN LISTS
 DOMESTIC SUBSTANCES LIST..... Listed .
 CEPA TOXIC SUBSTANCES..... No information .
 Canadian NPRI..... No information available .

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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