

Barentz.

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

PRODUCT: Manganese Sulphate Monohydrate 32%**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-HWDMNSUPA50-BG
OTHER MEANS OF IDENTIFICATION.... Manganese Sulphate Monohydrate 32% Powder.
PRODUCT IDENTIFIER..... Manganese Sulphate Monohydrate 32% Maxi
RECOMMENDED USE..... Fertilizer, Feed .
RESTRICTIONS ON USE..... No Information available .
EMERGENCY TELEPHONE NUMBER.... Barentz (519-662-2877).

SECTION 02: HAZARD IDENTIFICATION

HAZARD CLASSIFICATION..... Xn;R48/20/22. N;R51/53 . Environmental Aquatic Chronic 2-H411 . Health Eye
Dam.1-H318;STOT Rep.2-H373 . Physical Not classified .

SIGNAL WORD..... WARNING .

HAZARD STATEMENT..... H373 May cause damage to organs through prolonged or repeated exposure . H317 May
cause damage to organs (brain) through prolonged or repeated exposure if inhaled . H411
Toxic to aquatic life with long lasting effects . H318 Causes serious eye damage .

PRECAUTIONARY STATEMENT..... P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray . P273 Avoid release to the
environment . P280 Wear protective gloves/protective clothing/eye protection/face
protection . P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for
several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or physician . P310 Immediately call a POISON
CENTER or doctor/physician . P314 Get medical advice/attention if you feel unwell . P391
Collect spillage . P501: Dispose of contents/container in accordance with local / regional /
national / international regulations .

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

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

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

SECTION 04: FIRST-AID MEASURES

ROUTES OF EXPOSURE

INHALATION..... Move the exposed person to fresh air . When breathing is difficult, property trained
personnel may assist affected person by administering oxygen . Get medical attention .

INGESTION..... DO NOT INDUCE VOMITING NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR
DRINK FLUIDS . Provide rest, warmth and fresh air . Get medical attention . Drink plenty of
water . 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 . Get medical attention
immediately, continue to rinse . Remove any contact lenses and open eyes wide apart .

SYMPTOMS AND EFFECTS..... Not available .

IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT Treat symptomatically .

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

SUITABLE AND UNSUITABLE Use an extinguishing agent suitable for surrounding fire . Carbon dioxide . Water. Dry chemical .
 EXTINGUISHING MEDIA
 HAZARDOUS COMBUSTION PRODUCTS This product is not flammable .
 SPECIFIC HAZARDS..... When heated and in case of fire, irritating vapors/gases may be formed . In case of fire, toxic gases may be formed .
 SPECIAL PROTECTIVE EQUIPMENT Wear self-contained breathing apparatus and protective clothing . Keep run-off water out of AND PRECAUTIONS FOR FIRE-FIGHTERS sewers and water sources .

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 .
 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 . Collect spillage in containers . flush area with water . Provide ventilation and confine spill . Do not discharge onto the ground or into water courses .

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING.. Wear personal protective equipment . Keep container closed . Static electricity and formation of sparks must be prevented. Eliminate all sources of ignition . Mechanical ventilation or local exhaust ventilation is required . Avoid contact with skin and eyes . Use only with adequate ventilation .
 CONDITIONS FOR SAFE STORAGE..... Store in tightly closed original container in a dry, cool and well-ventilated place . Keep in original container .
 INCOMPATIBILITIES..... Strong oxidizing substances . Strong reducing agents .

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
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APPROPRIATE ENGINEERING Use in a well-ventilated area .
 CONTROLS
 PERSONAL PROTECTIVE EQUIPMENT
 RESPIRATORY PROTECTION..... 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 . Wear protecting clothing that minimizes exposed skin . When using do not eat, drink or smoke . Use appropriate skin cream to prevent drying of skin . Wash promptly with soap & water if skin becomes contaminated.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE..... Slightly pink powder, dust, granules .
 ODOUR..... Odorless .
 ODOUR THRESHOLD..... Not available .
 pH..... 5.0 – 7.0 .
 MELTING POINT..... 200 Deg.C .
 FREEZING POINT..... Not available .
 BOILING POINT..... 850 Deg.C @ 160 mm Hg.
 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 .
 RELATIVE DENSITY 2.95 .

PRODUCT: Manganese Sulphate Monohydrate 32%**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 conditions and recommended use .
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(CO ₂), Sulphurous gases (SO _x) .

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
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 information available .	
TOXICOLOGICAL CHARACTERISTICS..	No information available .	
IRRITATION/CORROSION.....	No information available .	
CARCINOGENICITY.....	No information available .	
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...	TARGET ORGAN: Skin Eyes Respiratory system, lungs .	

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 data available .

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.....	UN3077 .
PROPER SHIPPING NAME.....	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,N.O.S. MANGANESE SULPHATE .
CLASS.....	9 .
PACKING GROUP.....	III .
IMDG.....	Regulated .
UN NUMBER.....	UN3077 .
PROPER SHIPPING NAME.....	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,N.O.S. MANGANESE SULPHATE .
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CLASS.....	9 .
PACKING GROUP.....	III .
ENVIRONMENTAL HAZARDS.....	Marine Pollutant .

PRODUCT: Manganese Sulphate Monohydrate 32%**SECTION 14: TRANSPORT INFORMATION**

TRANSPORT IN BULK ACCORDING TO ANNEX II MARPOL 73/78 AND THE IBC CODE
SPECIAL PRECAUTIONS..... Not available .
Read safety instructions, SDS and emergency procedures before handling .

SECTION 15: REGULATORY INFORMATION

WHMIS 1988 CLASSIFICATION..... Not available .
TOXIC SUBSTANCES CONTROL ACT (TSCA) Not available .
CANADIAN LISTS..... Not available .
DOMESTIC SUBSTANCES LIST..... Not available .
CEPA TOXIC SUBSTANCES..... Not available .
Canadian NPRI..... Not 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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