

Safety Data Sheet

Revision Date: 29 February 2016

MANGANESE SULPHATE 32% Mono , Maxi GRANULAR

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME Manganese Sulphate Mono Maxi Granule,
 CAS-No. 10034-96-5
 EC No. 232-089-9
 SUPPLIER Pestell Minerals & Ingredients Inc.,
 141 Hamilton Road, New Hamburg ON, Canada
 Phone: 519-662-2877
 Email: qa@pestell.com
 www.pestell.com

Emergency Contact Number CANUTEC (24HS) 613-996-6666

2 HAZARDS IDENTIFICATION

CLASSIFICATION (67/548) Xn;R48/20/22. N;R51/53.
 CLASSIFICATION (EC1272/2008)
 Physical Not classified
 Health Eye Dam.1-H318;STOT Rep.2-H373
 Environmental Aquatic Chronic 2-H411

LABEL IN ACCORDANCE



SIGNAL WORD Danger

HAZARD STATEMENTS

H318	Causes serious eye damage.
H317	May cause damage to organs Brain through prolonged or repeated exposure if inhaled.
H411	Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

P260	Do not breath dust/fume/gas
------	-----------------------------

/mist/vapours /spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/clothing
/eye face
P305/351/338 IF IN EYES: Rinse cautiously with
water for several minutes. Remove
contact lenses, if present and easy
to do. Continue rinsing.
P310 Immediately call a POISON CENTER
or doctor/physician.
P314 Get medical advice/attention if
you feel indwell.

SUPPLEMENTARY PRECAUTIONARY STATEMENTS

P391 Collect spillage.
P501 Dispose of contents/container to...
Dispose of contents/container
to...Dispose of waste and residues
in accordance with local
authority requirements.

3 COMPOSITION/INFORMATION ON INGREDIENTS

EC No. 232-089-9
CAS-No. 10034-96-5

4 FIRST-AID MEASURES

GENERAL INFORMATION

Get medical attention if any discomfort continues.

INHALATION

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

INGESTION

DO NOT INDUCE VOMITING NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUSDS.
Remove victim immediately from source of exposure. Drink plenty of water,
Get medical attention. Provide rest, warmth and fresh air.

SKIN CONTACT

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

EYE CONTACT

Remove victim immediately from source of exposure. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use firm-extinguishing media appropriate for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES

Keep run-off water out of sewers and water sources. Dike for water control.

SPECIFIC HAZARDS

When heated and in case of fire, irritating vapors/gases may be formed. In case of firm, toxic gases may be formed.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Provide adequate ventilation. Use protective gloves, goggles and suitable protective clothing.

ENVIRONMENTAL PRECAUTIONS

Do not discharge onto the ground or into water courses.

SPILL CLEAN UP METHODS

Provide ventilation and confine spill. Do not allow runoff to sewer. material, then flush area with water. Collect spillage in containers, according to local regulations.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid contact with skin and eyes. Mechanical ventilation or local exhaust ventilation is required. Eliminate all sources of ignition. Static electricity and formation of sparks must be prevented.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA-8 hrs	STEL-15 min	Notes
MANGANESE SULPHATE	WEL	0.5 mg/m3		

WEL = Workplace Exposure Limit.

INGREDIENT COMMENTS

WEL = Workplace Exposure Limit.

RESPIRATORY EQUIPMENT



ENGINEERING MEASURES

Provide adequate ventilation.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION

Butyl rubber gloves are recommended.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear rubber apron. Wear rubber footwear.

HYGIENE MEASURE

DO NOT SMOKE IN WORK AREAL .Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap& water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Powder, dust
COLOUR	Violet
ODOUR	Odorless
SOLUBILITY	Soluble in water
BOILING POINT (°C)	850 @ 160 mm Hg
RELATIVE DENSITY	2.95

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight. Avoid excessive heat for prolonged periods of time.

MATERIALS TO AVOID

Strong oxidizing substances. Strong reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Toxic gases/vapors/fumes of: Carbon monoxide (CO) . Carbon dioxide(CO2). Sulphurous gases (SOx)

11 TOXICOLOGICAL INFORMATION

HEALTH WARNINGS

INHALATION. Prolonged inhalation of high concentrations may damage respiratory system. SKIN CONTACT. Act as a deflating agent on skin. May cause cracking of skin, and eczema. Prolonged or repeated exposure may cause severe irritation. EYE CONTACT. May cause severe irritation to eyes.

INGESTION

May cause nausea, stomach, headache, dizziness and intoxication.

TARGET ORGAN

Skin Eyes Respiratory system, lungs.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

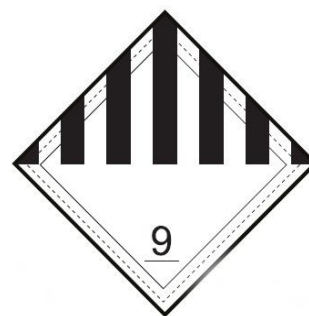
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION



UK ROAD CLASS	9		
PROPER SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,N.O.S.		
PROPER SHIPPING NAME	MANGANESE SULPHATE		
UN NO. ROAD	3077	UK ROAD PACK GR	III
ADR CLASS NO.	9	ADR Class	Class 9;Miscellaneous dangerous substances and articles.
ARD PACK GROUP	III	TUNNEL RESTRICTION CODE (E)	
HAZARD No. (ADR)	90	ADR LABEL NO.	9
HAZCHEM CODE	2Z	CEFIC TEC(R)NO.	90GM7-III
RID CLASS NO.	9	RID PACK GROUP	III
UN NO. SEA	3077	IMDG CLASS	9
IMDG PACK GR.	III	EMS	F-A, S-F
UN NO. AIR	3077	AIR CLASS	9
AIR PACK GR.	III		

15 REGULATORY INFORMATION

EU DIRECTIVES

Regulation (EC) No 1907/2006 of the European Parliament and of the Council

of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/95 as well as Council Directive 76/769/EEC and Commission Directives 91/55/EEC, 93/105/EC and 2000/21/EC, including amendments.

STATUTORY INSTRUMENTS

The Chemicals (Hazard information and Packaging for Supply) Regulation 2009 (S.I. 2009 No. 716).

APPROVED CODE OF PRACTICE

Classification and Labeling of Substances and Preparations Dangerous for Supply. Safety Sheet for Substances and Preparations.

GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108)

16 OTHER INFORMATION

No regulation

REVISION DATE

06 January 2016