



SAFETY DATA SHEET

SDS

I – PRODUCT IDENTIFICATION

TRADE NAME (as labeled) **MANGANESE NITRATE SOLUTION**

MANUFACTURER'S NAME GROW MORE, INC.
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DATE PREPARED/REVISED January 2, 2015

NAME OF PREPARER H. Langheim

II – HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE – Slightly pink liquid

ODOR - Odorless

POTENTIAL HEALTH EFFECTS

EYES - Vapors may cause redness and slight irritation. Severe exposure can result in swelling of the conjunctiva along with tissue damage.

SKIN - Repeated contact may cause slight irritation. Severe exposure can result in discomfort or pain, redness, irritation, and possible tissue damage.

SWALLOWED – Ingestion of this product can be harmful or fatal. Immediately upon contact, this product will cause irritation and burns of the mouth, throat, and other tissues of the digestive system. Severe exposure symptoms include: nausea, abdominal pain, vomiting, and diarrhea. Severe ingestion overexposures can result in convulsions and collapse.

INHALATION – Inhalation of vapors, mists, or sprays of this product may irritate the nose, throat, and lungs. Symptoms may include: sneezing, coughing and difficulty breathing, in case of severe overexposures product can damage respiratory system tissues.

OSHA/GHS STATUS – Considered hazardous by the OSHA Hazard Com. Standard under 29 CFR 1910.1200

SIGNAL WORD – DANGER!

HAZARD STATEMENTS – H272 May intensify fire, oxidizer

PRECAUTIONARY STATEMENTS – For the full text of the H-Statements see Section 16.

III – COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS No.	%
Manganese Dinitrate	10377-66-9	Trade secret
Water	7732-18-5	Trade secret

IV – FIRST AID MEASURES

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. No specific treatment.

EYE CONTACT - Wash thoroughly with water for at least 15 minutes. Remove contact lenses. Hold eyelids apart during flushing. Send patient immediately to physician.

SKIN CONTACT - Wipe excess material with dry cloth, remove contaminated clothing and shoes with large amounts of water and soap for at least 15 minutes. Send patient immediately to physician.

INHALED - Remove from exposure to fresh air. Get medical attention if symptoms occur.

SWALLOWED - Rinse mouth. Drink 2-3 glasses of water and seek medical assistance. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

V – FIRE-FIGHTING MEASURES

This product will not burn. This product is an oxidizing agent, which may cause spontaneous ignition of combustible materials.

SPECIAL FIREFIGHTING PROCEDURE - Must wear MSHA/NIOSH approved self-contained breathing Apparatus. Use abundant amount of water in early stages of fire.

UNUSUAL FIRE & EXPLOSION HAZARD – Decomposition of this product not known.

FLASH POINT – None-flammable

FLAMMABLE LIMITS – N/A

AUTOIGNITION TEMPERATURE – N/A

VI - ACCIDENTAL RELEASE MEASURES

SPILL RESPONSE PROCEDURE (Include employee protection measures) – Wear appropriate protective equipment and clothing during clean up. Contain the discharged material and dike the spilled material where possible. Prevent entry into sewers, drains, underground or confined spaces, water intakes and waterways. Avoid contact with combustible materials.

CLEAN UP PROCEDURE – Absorb spill with inert material, shovel material into appropriate container for disposal. Keep unnecessary personnel out of the area. Follow all Local, State, Federal and Provincial regulations for disposal

VII - HANDLING AND STORAGE

To maintain product quality, do not store in heat or direct sunlight, store in cool and dry location. Use good housekeeping practices such as washing hands with soap after handling. Keep container tightly closed. Keep out of reach of children and pets. Do not reuse empty containers.

Do not get this material in your eyes, on your skin, or on your clothing. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. Do not eat, drink or use tobacco products when handling this material. Use this product with adequate ventilation. Launder work clothes frequently.

VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION & ENGINEERING CONTROLS – Local exhaust.

RESPIRATORY PROTECTION – Where mist is generated by the process, MSHA/NIOSH approved respirator with full face mask is advised in the absence of proper environmental control.

EYE PROTECTION – Safety glasses or goggles where there is a potential eye contact. Safety eyewash station should be accessible within 10 seconds.

SKIN PROTECTION – Wear protective work gown, rubber or plastic gloves to prevent irritation.

IX - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE – Slightly pink liquid

ODOR – None

BOILING POINT OR RANGE °F – >212°F

MELTING POINT OR RANGE °F – N/E

FLAMMABILITY – Non-flammable

FREEZING POINT - -7°C

EXPOLOSIVE PROPERTIES – Non-explosive

pH < 1

SPECIFIC GRAVITY – 1.38 g/cm³ (11.49lbs/gallon)

X - STABILITY AND REACTIVITY

STABILITY - Stable under normal conditions of use.

CONDITIONS TO AVOID – exposure to extreme temperatures, contact with incompatible chemicals, and all combustible material.

INCOMPATIBILITY – Flammable combustible materials, strong reducing agents, finely powdered metals, strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS - Decomposition may produce toxic fumes of Nitrogen oxides.

HAZARDOUS POLYMERIZATION – will not occur

XI – TOXICOLOGICAL INFORMATION

SKIN IRRITATION – Slight irritant

EYE IRRITATION – Slight irritant

CHRONIC TOXICITY – None known

REPRODUCTIVE EFFECTS – None known

CARCINOGENICITY – This products does not contain any substances that are considered carcinogens by OSHA, NTP, IARC or ACGIH.

XII – ECOLOGICAL INFORMATION

AQUATIC TOXICITY – In high concentrations, this product may be dangerous to aquatic life and fouling to shorelines.

XIII – DISPOSAL CONSIDERATIONS

Dispose of within current local, state and federal regulations. No EPA Waste Number are applicable for this product's components.

XIV – TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION – UN/NA#: UN 3093

SHIPPING NAME – Corrosive Liquid, Oxidizing, n.o.s.

HAZARD CLASS - 8

PACKING GROUP – II

REQUIRED LABELS – Corrosive, Oxidizer

XV - REGULATORY INFORMATION

TSCA STATUS – Listed on U.S. EPA TSCA Inventory List

OSHA STATUS – Listed as hazardous

SARA 311/312

1 Immediate (Acute) Health Effect – YES

2 Delayed (Chronic) Health Effect – NO

3 Fire Hazard – YES

4 Sudden Release of Pressure Hazard – NO

5 Reactivity Hazard – NO

SECTION 313 – Manganese Dinitrate is subject to reporting levels established by SARA Title III, Section 313.

CALIFORNIA PROPOSITION 65 – Not listed

XVI - OTHER INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (USA)

NFPA

Health	2
Flammability	0
Physical hazards	0

- H272 – May intensify fire, oxidizer.
- H302 – Harmful if swallowed.
- H314 – Causes severe skin burns and eye damage.
- H315 – Causes skin irritation.
- H318 – Causes serious eye damage.
- H331 – Toxic if inhaled.
- H373 – May cause damage to organs through prolonged or repeated exposure if inhaled.
- H412 – Harmful to aquatic life with long lasting effects.



Disclaimer

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Version 1.1
Revision date: Feb. 11, 2015