## **SAFETY DATA SHEET**



Issuing Date	17-Jun-2020	Revision Date 10-Apr-2023 Revision Number	ber 2
1. Identific	ation		
Product ident	ifier		
Product Nam	e	MAX-IN <sup>®</sup> X-Mn™	
Other means	of identification		
Synonyms		AGM20033; AGM21075	
Recommended use of the chemical and restrictions on use			
Recommende	ed use	Fertilizer	
Restrictions of	on use	See product label for information regarding restriction on the use of this product	
Details of the	supplier of the	safety data sheet	
Supplier A Winfield S PO Box 64 St. Paul, M	olutions, LLC 1589		
Emergency te	elephone numbe	er	
Emergency te	elephone	FOR MEDICAL EMERGENCY: 1-877-424-7452 (24 hrs)	
		FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, C/ CHEMTREC 1-800-424-9300 (24 hrs)	ALL:

#### 2. Hazard(s) identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)		
Skin corrosion/irritation	Category 2	
Serious eye damage/eye irritation	Category 1	

### Hazards not otherwise classified (HNOC) Not applicable

#### Label elements

#### Danger

#### **Hazard statements**

Causes skin irritation. Causes serious eye damage.



**Precautionary Statements - Prevention** Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/eye protection/face protection

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 doctor IF ON SKIN: Wash with plenty of water and soap If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse

Other information

No information available.

#### 3. Composition/information on ingredients

#### Substance

Not applicable.

#### Mixture

Chemical name	CAS No	Weight-%	Trade secret
Manganese sulfate monohydrate	10034-96-5	15-20	*
Trade Secret Base	Trade secret	<5	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. First-aid measures

#### **Description of first aid measures**

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Eye contact	Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

#### Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation.

#### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

#### 5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	No information available.
Specific hazards arising from the chemical	No information available.
Explosion data Sensitivity to mechanical impact None.	
Sensitivity to static discharge	None.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

#### 6. Accidental release measures

# Personal precautions, protective equipment and emergency proceduresPersonal precautionsAvoid contact with skin, eyes or clothing. Use personal protective equipment as required.<br/>Ensure adequate ventilation.Other informationRefer to protective measures listed in Sections 7 and 8.Methods and material for containment<br/>Methods for containmentPrevent further leakage or spillage if safe to do so.Methods for cleaning upPick up and transfer to properly labeled containers.

7. Handling and storage	
Precautions for safe handling	
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.
Conditions for safe storage, includi	ng any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

#### 8. Exposure controls/personal protection

#### Control parameters

#### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Manganese sulfate monohydrate 10034-96-5	TWA: 0.02 mg/m <sup>3</sup> Mn respirable particulate matter TWA: 0.1 mg/m <sup>3</sup> Mn inhalable particulate matter	(vacated) Ceiling: 5 mg/m³ Ceiling: 5 mg/m³ Mn	IDLH: 500 mg/m³ Mn TWA: 1 mg/m³ Mn STEL: 3 mg/m³ Mn
Trade Secret Base	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm TWA: 6 mg/m <sup>3</sup> (vacated) TWA: 3 ppm (vacated) TWA: 8 mg/m <sup>3</sup> (vacated) STEL: 6 ppm (vacated) STEL: 15 mg/m <sup>3</sup>	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m <sup>3</sup> STEL: 6 ppm STEL: 15 mg/m <sup>3</sup>

#### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

#### Appropriate engineering controls

Engineering controls	Showers
	Eyewash stations
	Ventilation systems.

Individual protection measures, such as personal protective equipment		
Eye/face protection	Tight sealing safety goggles.	
Hand protection	Impervious gloves.	
Skin and body protection	Impervious clothing.	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.	

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#### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance	
Physical state	Liquid
Color	Red
Odor	No data available
Odor threshold	No data available
Property_	Values_
pH	6.8
Melting point / freezing point	No data available
Boiling point / boiling range	No data available
Flash point	> 93.3 °C / > 199.9

Remarks • Method None known None known None known None known

Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive l		
Lower flammability or explosive		
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	Completely soluble	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	1.32	None known
Other information		
	No information available.	
Explosive properties	No information available.	
Oxidizing properties Softening point	No information available	
Molecular weight	No information available	
VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk density	No information available	
Bulk density	No information available	
10. Stability and reactivity		
<b>-------</b>		
Reactivity	None under normal use conditions.	
Chamical stability	Ctable under normal conditions	
Chemical stability	Stable under normal conditions	

Chemical stability	Stable under normal conditions.	
Possibility of hazardous reactions	None under normal processing.	
Conditions to avoid	None known based on information supplied.	
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.	
Hazardous decomposition products None known based on information supplied.		

#### 11. Toxicological information

#### Information on likely routes of exposure

Product Information			
Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.		
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.		
Skin contact	Specific test data for the substance or mixture is not available. Causes skin irritation.		
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.		
Symptoms related to the physical, chemical and toxicological characteristics			
Symptoms	Redness. Burning. May cause blindness. May cause redness and tearing of the eyes.		

#### Acute toxicity

#### Numerical measures of toxicity

Based on available data, the classification criteria are not met

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Trade Secret Base	= 1720 mg/kg (Rat)	= 1000 mg/kg (Rabbit)	-

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. Irritating to skin.	
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.	
Respiratory or skin sensitization	No information available.	
Germ cell mutagenicity	No information available.	
Carcinogenicity	No information available.	
Reproductive toxicity	No information available.	
STOT - single exposure	No information available.	
STOT - repeated exposure	No information available.	
Target organ effects	Kidney, Respiratory system, Eyes, Skin, Central nervous system, Blood.	
Aspiration hazard	No information available.	
Other adverse effects	No information available.	
Interactive effects	No information available.	

#### 12. Ecological information

#### Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Trade Secret Base	EC50: =15mg/L (72h, Desmodesmus subspicatus)	LC50: 114 - 196mg/L (96h, Oncorhynchus mykiss) LC50: 300 - 1000mg/L (96h, Lepomis macrochirus) LC50: =227mg/L (96h, Pimephales promelas) LC50: =3684mg/L (96h, Brachydanio rerio) LC50: >200mg/L (96h, Oncorhynchus mykiss)	_	EC50: =65mg/L (48h, Daphnia magna)

#### Persistence and degradability

No information available.

There is no data for this product.

**Bioaccumulation** 

(M)SDS Number UL-WIN-115

#### Component Information

Chemical name	Partition coefficient
Trade Secret Base	-1.91

Other adverse effects

No information available.

#### 13. Disposal considerations

# Waste treatment methods Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Contaminated packaging Do not reuse empty containers.

#### 14. Transport information

DOT	Not regulated
IATA_	Not regulated
IMDG	Not regulated

15. Regulatory information	
International Inventories TSCA	Contact supplier for inventory compliance status.

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

#### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Manganese sulfate monohydrate - 10034-96-5	1.0

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Manganese sulfate monohydrate 10034-96-5	Х	-	Х
Trade Secret Base	Х	X	Х

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information					
<u>NFPA</u>	Health hazards 3	Flammability 1	Instability 0	Physical and chemical properties -	
<u>HMIS</u>	Health hazards 3	Flammability 1	Physical hazards 0	Personal protection X	
Key or legend to a	abbreviations and acronyms ι	used in the safety data sh	neet_		
TWA Ceiling	B: EXPOSURE CONTROLS/PE TWA (time-weighted average) Maximum limit value	STEL *	STEL (Short Term Skin designation	Exposure Limit)	

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#### <u>Disclaimer</u>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**