





**ACTIVE**  
AgriScience

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#209 - 31136 Peardonville Rd,  
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[activeagriscience.com](http://activeagriscience.com)

## MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION							
PRODUCT IDENTIFIER		ACTIVE MANGANESE 7% Mn					
PRODUCT USE		MICRONUTRIENT FERTILIZER					
MANUFACTURERS NAME			Active AgriScience Inc.		DISTRIBUTORS NAME		
STREET ADDRESS			209-31136 Peardonville Rd		STREET ADDRESS		
CITY	Abbotsford	PROVINCE	British Columbia, Canada		CITY		PROVINCE
POSTAL CODE	V2T 6K2	EMERGENCY TELEPHONE	(604) 864-0154		POSTAL CODE		EMERGENCY TELEPHONE
DATE	Feb 24, 2017	PREPARED BY	Active AgriScience Inc.		PHONE NUMBER		
SECTION 2 – HAZARDS IDENTIFICATION							
CLASSIFICATION:							
CANADA: WHMIS 2015		Serious eye damage: Category 1 Acute toxicity, oral: Category 4					
USA: OSHA Hazard Communication Standard 2012		Serious eye damage: Category 1 Acute toxicity, oral: Category 4					
    <b>DANGER</b>		<b>HAZARD STATEMENTS</b>  harmful if swallowed Causes serious eye damage			<b>PRECAUTIONARY STATEMENTS</b> Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection / face protection  <b>IF SWALLOWED:</b> Call a POISON CENTRE / doctor if you feel unwell. rinse mouth  <b>IF IN EYES:</b> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY call a doctor  Dispose of contents / container in accordance with federal, provincial, and municipal regulations		
SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS							
HAZARDOUS INGREDIENTS		CAS#			PERCENT		
Zinc sulphate monohydrate		7746-19-7			25%		
SECTION 4 – FIRST AID MEASURES							
EYE CONTACT		Immediately flush eyes with a large gentle stream of water for 15 minutes while holding the upper and lower eyelids open. Seek immediate medical attention.					



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<b>SKIN CONTACT</b>	Immediately flush skin with plenty of water for 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Seek medical attention if symptoms persist.
<b>INHALATION</b>	Move victim to fresh air. Allow the victim to rest in a well-ventilated area. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and seek medical attention immediately.
<b>INGESTION</b>	Never give anything by mouth to an unconscious person. DO NOT induce vomiting without physician's direction. If vomiting occurs naturally, have victim lean forward with head down to avoid breathing in vomit, rinse mouth. Seek medical attention if you feel unwell.

### SECTION 5 – FIRE FIGHTING MEASURES

<b>FLAMMABLE</b>	Product will not burn or support fire				
<b>MEANS OF EXTINCTION</b>	Use extinguishing methods appropriate for the surrounding fire.				
<b>FLASHPOINT &amp; METHOD</b>	NAP	<b>UPPER FLAMMABLE LIMIT</b>	NAP	<b>LOWER FLAMMABILITY LIMIT</b>	NAP
<b>AUTO IGNITION TEMPERATURE</b>	NAP	<b>SENSITIVITY TO IMPACT</b>	NAP	<b>SENSITIVITY TO STATIC DISCHARGE</b>	NAP
<b>HAZARDOUS COMBUSTION PRODUCTS</b>	Toxic sulphur oxides and / or zinc oxides can be released during a fire or when product is heated to decomposition				

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>LEAK &amp; SPILL PROCEDURES</b>	Wear personal protective equipment outlined in SECTION 8. Ventilate area of spill. Prevent eye / skin contact. Adsorb with inert material and place into suitable clean containers for later disposal. Do not release into drains or the environment
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### SECTION 7 – HANDLING AND STORAGE

<b>HANDLING</b>	Wear personal protective equipment outlined in SECTION 8. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse
<b>STORAGE</b>	Store in a tightly closed container in a cool, dark, well ventilated area.

### SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

<b>EXPOSURE LIMITS</b>	Exposure Limits	ACGIH Not available	NIOSH Not available	OSHA – Final PEL's Not available
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<b>ENGINEERING CONTROLS</b>	Ventilation: install ventilation systems on tractor cabs and confined spaces if possible
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#### PERSONAL PROTECTIVE EQUIPMENT

<b>Skin</b>	Wear water resistant rubber (latex, butyl or plastic (PVC) gloves, long sleeves, pants, shoes and socks when handling this product
<b>Eyes</b>	Wear chemical goggles with side guards or face shield if there is a potential to come in contact with spray mists
<b>Respirator</b>	Wear a NIOSH approved air purifying respirator if mists are present and ventilation is absent or poor

#### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>PHYSICAL STATE</b>	Liquid	<b>APPEARANCE</b>	NAV	<b>COLOUR</b>	NAV
<b>SPECIFIC GRAVITY</b>	NAV	<b>BOILING POINT</b>	NAV	<b>FREEZING POINT</b>	NAV
<b>EVAPORATION RATE</b>	NAV	<b>SPECIFIC GRAVITY</b>	1.3- 1.4 g/cm <sup>3</sup>	<b>ODOUR</b>	NAV
<b>PH</b>	NAV	<b>SOLUBILITY IN WATER</b>	Soluble	<b>ODOUR THRESHHOLD</b>	NAV

#### SECTION 10 – STABILITY AND REACTIVITY

<b>CHEMICAL STABILITY</b>	Stable under normal conditions of use and storage
<b>INCOMPATIBILITY WITH OTHER SUBSTANCES</b>	Not available
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Toxic sulphur oxides and / or zinc oxides can be released during a fire or when heated to decomposition

#### SECTION 11 – TOXICOLOGICAL INFORMATION

<b>ACUTE TOXICITY</b>	Zinc sulphate is classified as Category 4 for oral toxicity (LD50: > 300 ≤ 2000 mg/kg of body weight)
<b>CHRONIC TOXICITY</b>	Prolonged or repeated skin exposure can lead to severe dermatitis. Exposure to high levels of mists can lead to thirst, a metallic taste in the mouth, weakness, fatigue muscular pain and nausea.



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<b>IRRITANCY OF PRODUCT</b>	Severe eye irritant – may cause eye burns and eye damage. Irritating to skin, respiratory and digestive tracts.
<b>SENSITIZATION</b>	NAV
<b>CARCINOGENICITY</b>	Not classified or listed by IARC, NTP, or ACGIH as a suspected or probable carcinogen
<b>REPRODUCTIVE TOXICITY</b>	Some evidence in rats (RTECS)
<b>MUTAGENICITY</b>	Some evidence in microorganisms, rodents and in vitro human cells (RTECS)

### **SECTION 12 – ECOLOGICAL INFORMATION**

<b>ECOTOXICITY</b>	Very harmful to aquatic life in low concentrations with possible long term effects
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### **SECTION 13 – DISPOSAL CONSIDERATIONS**

<b>WASTE DISPOSAL</b>	Dispose of this product in accordance with Federal, Provincial and municipal regulations.
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### **SECTION 14 – TRANSPORT INFORMATION**

<b>SHIPPING</b>	TDG: Not regulated for transport DOT: Not regulated for transport
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### **SECTION 15 – REGULATORY INFORMATION**

This SDS is prepared to comply with the Global Harmonized System of Chemical Classification and Labeling (GHS) and conforms to the requirements of the Hazard Products Act and Regulations (WHMIS 2015) and the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### **SECTION 16 – OTHER INFORMATION**

To the best of our knowledge, the information contained herein is current and correct as of the date of this SDS, however, the information and recommendations are presented without warranty, representation or license of any kind, with respect to their accuracy, or completeness, and the seller, supplier and manufacturer (Supplier) of this material or their affiliates, disclaim all liability for reliance on such information and recommendations.

Final determination of the suitability of any material is the sole responsibility of the buyer or the user (recipient). All materials may present unknown hazards and should be used with caution. The recipient assumes all risk in connection with the use of this material and assumes all responsibility for ensuring the material is used in a safe manner in compliance with applicable environmental, and health and safety laws.

The supplier does not warrant the merchantability of this material or the fitness of the material for any particular use and assumes no responsibility for injury or damage caused directly or indirectly by the use of this material.