



ACTIVE[™]
AgriScience

1-639-398-0485
3422 Millar Ave,
Saskatoon, SK,
S7K 5Y7, Canada
activeagriscience.com

SAFETY DATA SHEET

Active ZMC+S 5.5% Zn 6.5% Mn 1% Cu

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
PRODUCT IDENTIFIER	Active ZMC+S 5.5% Zn 6.5% Mn 1% Cu
PRODUCT USE	Agricultural micronutrient fertiliser
MANUFACTURERS NAME	Opal Australasia
ADDRESS	7 Yeates Road, Kwinana Beach, WA 6167, Australia
DATE	Feb. 28, 2024
EMERGENCY TELEPHONE	+1800 039 008
PREPARED BY	Active AgriScience Inc.
USE RESTRICTIONS	For professional use only. Use only as labeled.
DISTRIBUTORS NAME	
STREET ADDRESS	
CITY	
POSTAL CODE	
COUNTRY	
EMERGENCY TELEPHONE	



ACTIVETM
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SECTION 2 – HAZARDS IDENTIFICATION

GHS CLASSIFICATION

HPR (WHMIS 2015)	Acute Toxicity Oral: Category 3 Eye Damage / Irritation: Category 2A Skin Corrosion / Irritation: Category 2
OSHA Hazard Communication Standard (29 CFR 1910.1200)	Acute Toxicity Oral: Category 3 Eye Damage / Irritation: Category 2A Skin Corrosion / Irritation: Category 2
 DANGER	<p>HAZARD STATEMENTS: MAY CAUSE EYE AND SKIN IRRITATION. TOXIC IF SWALLOWED.</p> <p>PRECAUTIONARY STATEMENTS: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear chemical resistant gloves, clothing, eye protection, and face protection. If mists are present and ventilation is absent or poor, use an air purifying respirator. Do not eat, drink or smoke when using this product. Wash up thoroughly before eating, drinking, smoking and leaving work.</p> <p>FIRST AID: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTRE/doctor. IF ON SKIN: Immediately take off all contaminated clothing. Rinse skin with water (or shower). Wash contaminated clothing before reuse. Seek medical attention if irritation persists. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Seek medical attention if you feel unwell. IF IN EYES: Immediately flush eyes with a gentle stream of water for 15 minutes while holding the upper and lower eyelids open. Remove contact lenses, if present and easy to do. Seek medical attention if irritation persists.</p> <p>STORAGE: KEEP OUT OF REACH OF CHILDREN. Store locked up in a cool, dry, well-ventilated area away from food or feed storage. DO NOT FREEZE. DISPOSAL: Dispose of this product and its container in accordance with Federal, Provincial, and Local regulations.</p>

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CAS#	CONCENTRATION
Copper Sulphate	7758-99-8	3-6%
Manganese Sulphate	7746-19-7	15-22%
Zinc Sulphate	7446-19-7	12-16%



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SECTION 4 – FIRST AID MEASURES

EYE CONTACT	Immediately flush eyes with a gentle stream of water for 15 minutes while holding the upper and lower eyelids open. Remove contact lenses, if present and easy to do. Seek medical attention if irritation persists.
SKIN CONTACT	Immediately take off all contaminated clothing. Rinse skin with water (or shower). Wash contaminated clothing before reuse. Seek medical attention if irritation persists.
INHALATION	Remove person to fresh air and keep comfortable for breathing. Seek medical attention if you feel unwell.
INGESTION	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTRE/doctor.
Most Important Symptoms, both acute & delayed	May cause eye and skin irritation. Toxic if swallowed.

SECTION 5 – FIRE FIGHTING MEASURES

FLAMMABLE	Product will not burn or support combustion.
MEANS OF EXTINCTION	Use extinguishing methods appropriate for the surrounding fire.
FLASHPOINT & METHOD	NAP
UPPER FLAMMABLE LIMIT	NAP
LOWER FLAMMABILITY LIMIT	NAP
AUTO IGNITION TEMPERATURE	NAP
SENSITIVITY TO IMPACT	NAP
SENSITIVITY TO STATIC DISCHARGE	NAP
HAZARDOUS COMBUSTION PRODUCTS	Toxic sulfur oxides and toxic metallic fumes are released during a fire or when product is heated to decomposition.



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SECTION 6 – ACCIDENTAL RELEASE MEASURES

LEAK & SPILL PROCEDURES	Wear personal protective equipment outlined in SECTION 8. Ventilate area of spill. Avoid breathing mists. Contain spill then 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

HANDLING	Do not handle until all safety precautions have been read and understood. Do not breathe mist/spray. Do not get in eyes, or skin. Wear personal protective equipment outlined in SECTION 8. Wash hands and other exposed areas before eating, drinking, smoking and when leaving work.
STORAGE	KEEP OUT OF REACH OF CHILDREN. Store locked up in a cool, dry, well ventilated area away from food or feed storage. DO NOT FREEZE.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

EXPOSURE LIMITS	NIOSH: REL 10 hr TWA 1 mg/m ³ / Copper (dusts and mists)
ENGINEERING CONTROLS	Ensure adequate ventilation when handling or applying this product. Follow all label instructions. Follow manufacturers' instructions for cleaning / maintaining personal protective equipment. If mists are present and ventilation is absent or poor, use an air purifying respirator.
PERSONAL PROTECTIVE EQUIPMENT	
Skin	Wear chemical resistant gloves, clothing, and face protection when handling or applying this product.
Eyes	Wear chemical resistant goggles when handling or applying this product
Respirator	If mists are present and ventilation is absent or poor, use an air purifying respirator when handling or applying this product.



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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES	
PHYSICAL STATE	Liquid
COLOUR	Light blue
BOILING POINT	NAV
EVAPORATION RATE	NAV
ODOUR	NAV
SOLUBILITY IN WATER	Very soluble
APPEARANCE	Light blue liquid
VISCOSITY	Not viscous
FREEZING POINT	NAV
SPECIFIC GRAVITY	1.3 - 1.4 kg/L
pH	1.5 – 2.5
ODOUR THRESHHOLD	NAV

SECTION 10 – STABILITY AND REACTIVITY	
CHEMICAL STABILITY	Stable under normal conditions of use and storage.
INCOMPATIBLE WITH OTHER SUBSTANCES	Strong acids and strong bases.
HAZARDOUS DECOMPOSING PRODUCTS	Toxic sulfur oxides and metallic fumes are released during a fire or when heated to decomposition.



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SECTION 11 – TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	Copper sulphate pentahydrate: 7733-02-0: LD ₅₀ (oral, mouse) 245 mg / kg. LD ₅₀ (oral, rabbit) 2 g / kg.
CHRONIC TOXICITY	Prolonged or repeated skin exposure can lead to dermatitis.
EYE / SKIN IRRITATION	May cause eye and skin irritation.
SENSITIZATION	May cause skin sensitization.
CARCINOGENICITY	No component of this product present at levels $\geq 0.1\%$ is identified as a probable, possible, or confirmed human carcinogen by IARC, or ACGIH.
REPRODUCTIVE TOXICITY	Not available.
MUTAGENICITY	Some evidence in vitro lymphocyte human cells (RTECS).

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY	Very harmful to aquatic life in low concentrations with possible long-term effects.
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SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL	Dispose of this product and its container in accordance with Federal, Provincial, and Local regulations.
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SECTION 14 – TRANSPORT INFORMATION

SHIPPING	TDG: Not a dangerous good for transport. DOT: Not a dangerous good 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 HPR (WHMIS 2015) & OSHA Hazard Communication Standard (29 CFR 1910.1200).



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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, 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.