



SAFETY DATA SHEET (SDS)

(In accordance with SANS ISO 110141)

CROPCARE ZMC

Issue Date	09/2019
Revision Date	2026
SDS Nr.	MW/CCZ125

Section – 1 PRODUCT AND COMPANY IDENTIFICATION

Product name : CropCare ZMC
Product Code : B 4302
Recommended use : Foliar Spray with Seaweed
Supplier : Metson Manufacturing CC
P.O. Box 1005, Cresta, 2118
Gauteng, South Africa
Emergency Telephone Number : 0861 Metson (638 766)

Section 2 - HAZARDS IDENTIFICATION

Hazard Class	Hazard Category	Hazard Statement	Hazard Code	Signal Word
Acute toxicity, oral	4	Harmful if swallowed	H302	Warning
Serious eye damage/eye irritation	1	Causes serious eye damage	H318	Danger
Reproductive toxicity	1A, 1B	May damage fertility; May damage the unborn child	H360FD	Danger
Specific target organ toxicity, repeated exposure	2	Causes damage to organs through prolonged or repeated exposure	H373	Warning
Hazardous to the aquatic environment, acute hazard	1	Very toxic to aquatic life	H400	Warning
Hazardous to the aquatic environment, long-term hazard	1	Very toxic to aquatic life with long lasting effects	H410	Warning



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Section 3 – COMPOSITION / INFORMATION ON COMPONENTS

Substance / preparation : Preparation
Chemical nature : A solution in water
Hazardous components :

Chemical Name	CAS No.	Concentration
Zinc	7446-19-7	8-13%
Manganese	10034-96-5	8-13%
Copper	7440-50-8	1-5%
Boric Acid	10043-35-3	1-5%
Non disclosed ingredients		64-82

Ingredients not identified are confidential or non-hazardous. Values on SDS are not product specifications.

This product contains seaweed

Section 4 - FIRST AID MEASURES

Eye Contact : Wash with copious amount of water for about 15 minutes. If irritation persists contact physician.

Skin Contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Ingestion : Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Never give anything by the mouth to an unconscious patient. Seek immediate medical assistance.

Note to Physician : None

Section 5 - FIRE FIGHTING MEASURES

The product is not flammable or combustible.

Suitable extinguishing media : Use media appropriate for the surrounding fire.

Special protective equipment : Normal bunker gear.

Specific hazards : Under thermal decomposition product may emit toxic fumes.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions : Avoid contact with eyes.

Environmental precautions : Avoid run-off of undiluted material into water courses.

Methods for cleaning up : Small quantities – Collect spill and containerize.
Wash spill area with water.
Large quantities – Dispose waste according to the local regulations.



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Section 7 - HANDLING AND STORAGE

- Safe handling advice** : Prevent skin or eye contact. Avoid getting the product on you or in you. Wash hands after handling. Do not eat or drink while handling the product.
- Storage conditions** : Store in a well-ventilated area. Keep container tightly closed. Destroy empty container by perforating and flattening, and dispose of container in a safe way. Do not store with food, feed or other materials for human consumption. Keep out of reach of children. Recommended storage temperature below 40°C. Avoid freezing. Do not store diluted product. Store containers evenly on a sturdy, intact pallet

Section 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure limits : None

Personal protection equipment

- Eye protection** : Eye contact with the material should be avoided through the use of chemical safety glasses, goggles or face-shields. Maintain eye wash fountain and quick drench facilities in work areas.
- Skin and body protection** : Gloves and protective clothing made from Viton or PVC should be used. Verify impermeability under normal usage conditions.
- Inhalation protection** : Respirator mask – Required under normal conditions
- Protective measures** : Required under normal conditions. If eye or skin contact can occur washing facility for eyes and skin must be available nearby.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Powder
- Colour** : Grey and White
- Odour** : Odourless.
- Initial boiling point** : 212°F (100°C)
- Flash point** : N/A
- pH** : 6.0 - 7.0
- Water solubility** : Water soluble

Section 10 – STABILITY AND REACTIVITY

- Conditions to avoid** : None
- Materials to avoid** : Avoid contact with Lime Sulphur and Bordeaux mixture, as well as MCPA and 2,4-D based products.
- Hazardous decomposition products** : If involved in a fire oxide of carbon, sulfur, nitrogen and metal fumes may be generated.
- Hazardous polymerization** : Will not occur.



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Section 11 - TOXICOLOGICAL INFORMATION

LD50 Acute oral

- Eye irritant** : Mild eye irritant. Flush with water for 15 minutes
- Skin irritant** : Mild skin irritant. Wash affected area with soap and water
- Inhalation** : Not hazardous. Remove affected person to fresh air if necessary
- Ingestion** : Low toxicity. Treat symptomatically. Induce vomiting and seek medical advice

Section 12 - ECOLOGICAL INFORMATION

Persistence / degradability

- Arsenic pentoxide : Refer to risk statement in section 15
- Chromium trioxide : Refer to risk statement in section 15
- Cupric oxide : Refer to risk statement in section 15

Ecotoxicity

- Arsenic pentoxide : Refer to risk statement in section 15
- Chromium trioxide : Refer to risk statement in section 15
- Cupric oxide : Refer to risk statement in section 15

Section 13 – DISPOSAL CONSIDERATIONS

- Product** : Dispose according to the local regulations.
- Containers** : Dispose according to the local regulations.
- Contaminated packaging** : Dispose according to the local regulations.

Section 14 – TRANSPORT INFORMATION

Non - Dangerous



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Section 15 – REGULATORY INFORMATION

National legislation (South Africa)

Transport	: National Road Traffic Act, Act 93 of 1996 – Chapter VII of the regulations.
Waste disposal	: National Water Act, Act 36 of 1998
Other regulations	
Hazard Symbols	: None
Risk phrases	: H302 – Harmful if swallowed H318 – Causes serious eye damage H360FD – May damage fertility; May damage the unborn child H373 - Specific target organ toxicity, repeated exposure H410 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects
Safety phrases	: None

Section 16 – OTHER INFORMATION

16.1 This Safety Data Sheet has been prepared using data supplied by the manufacturers of the ingredients and summarizes our best knowledge, at the date of issue, and of the health and safety information of the product and how to safely handle and use the product in the workplace. Since Metson Manufacturing cannot anticipate or control the conditions under which the product may be used, each user must prior to usage, review this Safety Data Sheet in the context of how their user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that and appropriate risk assessment can be made, the user should contact Metson Manufacturing.

16.2	Original	: September 2019
	Revised	: June 2026

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09/2019
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End of SDS

Label elements

GHS (Pictogram)	GHS (Classification)	Protective Clothing
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	H302 – Harmful if swallowed H318 – Causes serious eye damage H360FD – May damage fertility; May damage the unborn child H373 - Specific target organ toxicity, repeated exposure H410 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects	
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