

1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: MicroPack BCMZ
Registration Number: 2023165M *Fertilizers Act*
Product Use: Agrochemicals
Manufacturer/Supplier: INTERPROVINCIAL COOPERATIVE LTD.
945 Marion St.
Winnipeg, Manitoba
R2J 0K7
www.ipco.ca
Effective Date: December 15, 2023

2: HAZARD IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200:

Acute toxicity, oral Category 4
Acute toxicity, dermal Category 5
Serious eye damage/eye irritation Category 2A
Reproductive toxicity Category 1B
Specific target organ toxicity, repeated exposure (kidneys) Category 2
Hazardous to the aquatic environment, acute hazard Category 1
Hazardous to the aquatic environment, long term hazard Category 1

Pictograms:



Signal word:

Danger!

Hazard statements:

Harmful if swallowed. May be harmful in contact with skin. Causes serious eye irritation. May damage fertility or the unborn child. Causes damage to the kidneys through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary statement:

Prevention:

Obtain, read, and follow all safety instructions before use. Do not breathe fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not touch eyes. Do not eat, drink, or smoke when using this product.

Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF SWALLOWED: Get medical help.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and if easy to do-continue rinsing.

If exposed or concerned, get medical help.

Get medical advice/attention if you feel unwell.

Rinse mouth.

If eyes irritation persists: Get medical help. Collect spillage.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local/national regulations.

Other hazards which do not result in classification:

None known.

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Effective Date: December 15, 2023

Page 1 of 5

3: COMPOSITION AND INFORMATION ON INGREDIENTS

| COMPONENT | CAS NUMBER | % (W/W) |
|--------------------------|------------|---------|
| Zinc Oxide | 1314-13-2 | 10-20 |
| Colemanite | 1318-33-8 | 25-35 |
| Copper (I) oxide | 1317-39-1 | 5-10 |
| Manganese (II) carbonate | 598-62-9 | 10-15 |
| Proprietary liquid blend | N/A | 30-40 |

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4: FIRST AID MEASURES

| | |
|-----------------|---|
| General advice: | There are no predictable hazardous effects in the normal use of the substance, but some instructions must be followed. |
| If inhaled: | If breathed, move person from danger area and provide for fresh air and seek medical advice. If not breathing, give artificial respiration. |
| Skin contact: | Wash with water. |
| Eye contact: | Rinse with copious quantities of clean water keeping the eyelids well open in order to assure an adequate rinsing and seek medical advice. |
| Ingestion: | Rinse out the mouth with copious quantity of water and seek medical advice. Never give anything by mouth to an unconscious person. |
| Risk: | No remarkable particular symptoms and effects. |

Notes to Physician: No remarkable particular indication.

5: FIRE-FIGHTING MEASURES

| | |
|---|---|
| Suitable extinguishing media: | Take into account the materials present in its vicinity. In the case of fire due to nearby materials, water, foam, dry chemicals, or carbon dioxide can be used. |
| Unsuitable extinguishing media: | None known. |
| Specific hazards arising from the substance or mixture: | In case of fire due to nearby materials, the product could emit pungent and stifling smokes. |
| Advice for firefighters: | The product itself is not flammable. Coordinate extinguishing measures taking into account local and environmental circumstances. Avoid generating dust. Use respiratory protection equipment that supplies air from an independent source (auto-respirator) and suitable protective clothing. Collect water used to extinguish fire and dispose according to local/regional/national/international regulations. |

6: ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------|--|
| Personal precautions: | Keep unnecessary personnel away. Keep people away from upwind of spill/leak. Wear appropriate protective equipment and clothing during clean up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For further information refer to section 8 "Exposure controls/personal protection." |
| Environmental precautions: | Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses, or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. |
| Methods for containment: | Large spills: Stop the flow of material if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand, or earth and place into containers. Prevent product from |

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entering drains. Following product recovery, flush area with water.
 Small spills: Wipe up with absorbent material (e.g., cloth, fleece). Clean surface thoroughly to remove residual contamination.
 Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

- Reference to other sections:
- 7. HANDLING AND STORAGE
 - 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
 - 13. DISPOSAL CONSIDERATIONS

7: HANDLING AND STORAGE

Handling: Obey reasonable safety precautions and practice according to good industrial personal hygiene and good occupational practices using suitable protective gloves, glasses, and clothing.

Storage, including any incompatibilities: Store the product in clean and suitable sealed containers.

Specific end use(s): No data available.

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

Control Parameters: Occupational exposure limits: No exposure limits noted for ingredient(s).
 Biological limit values: No biological exposure limits noted for the ingredient(s).

Exposure controls:
 Engineering measures: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide easy access to water supply and eye wash facilities.

Personal protective equipment:

Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. Chemical respirator with organic vapor cartridge and full-face mask.

Hand/Skin protection: Wear appropriate chemical resistant gloves. Wear suitable protective clothing.

Eye protection: Chemical goggles are recommended. Wear face shield if there is risk of splashes.

Hygiene measures: Observe good industrial hygiene practices.
 Personal hygiene is an important work practice exposure control measure, and the following general measures should be taken when working with or handling this materials:

- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

Protective measures: Ensure that eyewash stations and safety showers are close to the workstation location.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Physical state: Liquid. Color: Beige/Pink.
 Odor: Characteristic
 Odor threshold: No data available
 pH, 1%: 7-8.5
 Freezing point: No data available
 Boiling point/range: No data available
 Flash point: >94°C (>200Deg F)
 Evaporation rate (butyl acetate = 1): No data available
 Flammability (solid, gas): No data available
 Flammability (liquids): No data available
 Flammability/Explosive limit: No data available
 Autoignition temperature: No data available
 Vapor pressure: No data available
 Vapor density: No data available
 Density: 1.85 – 1.88 g/ml
 Solubility: No data available

10: STABILITY AND REACTIVITY

Reactivity: The product is stable and non-reactive under normal conditions of use, storage, and transport.
 Chemical stability: Material is stable under normal conditions.
 Possibility of hazardous reactions: Polymerization: No dangerous reaction known under conditions of normal use.
 Conditions to avoid: Contact with incompatible materials.
 Incompatible Materials: Reacts with: Strong oxidizing agents.
 Hazardous decomposition products: During fire, gases hazardous to health may be formed.

11: TOXICOLOGICAL INFORMATION

Acute toxicity: No data available.
 Mutagenicity: No data available.
 Toxicity for reproduction and development: STOT-single exposure- No data available. STOT- repeated exposure- No data available.
 Aspiration toxicity: No data available

12: ECOLOGICAL INFORMATION

Toxicity:

| Component | Result | Species | Dose | Exposure |
|------------|--|---------|----------------|----------|
| Zinc oxide | LC50 Inhalation Dusts and mists | Rat | >5.7 mg/L | 4 hours |
| | LD50 Oral | | 15000 mg/kg | N/A |

Persistence and degradability: Not rapidly degradable.

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Bio accumulative potential: No evidence to indicate significant bio accumulative potential.
 Mobility in soil: No evidence to indicate significant mobility in soil.
 Results of PBT and vPvB assessment: ZnO is not PBT or vPvB
 Other adverse effects: None known.

13: DISPOSAL CONSIDERATIONS

Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used containers. Dispose of contents/container in accordance with local/regional/national/international regulations.
 Local disposal regulations: Dispose in accordance with all applicable regulations.
 Hazardous waste code: The waste code should be assigned in discussion between the user, the producer, and the waste disposal company.
 Waste from residues/unused products: Dispose of it in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal instructions).
 Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14: TRANSPORT INFORMATION

General: US DOT and TDG: This material is not regulated for USA, Mexico, or Canada ground shipments.
 IATA and IMDG: Regulated. UN3082, Environmentally Hazardous Substance, Liquid, n.o.s. (Zinc Oxide), 9, PG III, Marine Pollutant.
 Transport Hazard Class: Class 9 (IATA/IMDG)
 UN Identification Number: UN3082 (IATA/IMDG)
 Packaging Group: PG III (IATA/IMDG)
 Environmental Hazards: Marine Pollutant (IATA/IMDG only)
 Transport in Bulk: Not regulated by DOT
 Note: The above regulatory prescriptions are those valid on the date of publication of this sheet.

15: REGULATORY INFORMATION

United States TSCA Inventory: YES (positive listing) on TSCA inventory.
 Canadian Domestic Substances List (DSL): YES (positive listing) on DSL. All components of this product are on the Canadian DSL.
 Federal Regulations SARA 311/312 Hazards:

| | |
|-----------------------------------|-----|
| Fire hazard | No |
| Reactivity Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Acute Health Hazard | Yes |
| Chronic Health Hazard | Yes |

SARA 302 Extremely hazardous substance: Not listed.

16: OTHER INFORMATION

Preparation Date: December 15, 2023
 Revision Date/Reason: N/A
 Notice: The enclosed information is supplied as a customer service and is provided in good faith. Although it has been based on data drawn from sources deemed to be reliable, Interprovincial Cooperative Limited cannot guarantee its accuracy and assumes no responsibility for conditions resulting from its use.