

Safety Data Sheet

Repair and Repel

Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Red Pepper

Concentration 5 - 10 % (weight)

2. Garlic, ext.

Concentration 2 - 6 % (weight)

CAS no. 8008-99-9

3. Manganate(2-), [[N,N'-1,2-ethanediylbis[N-[(carboxy-kappaO)methyl]glycinato-kappaN,kappaO]](4-)]-, potassium (1:2), (OC-6-21)-

Concentration 50 % (weight)

CAS no. 68015-77-0

4. Zincate(2-), [[N,N'-1,2-ethanediylbis[N-[(carboxy-kappaO)methyl]glycinato-kappaN,kappaO]](4-)]-, ammonium (1:2), (OC-6-21)-

Concentration 33 % (weight)

CAS no. 67859-51-2

5. Boric acid

Concentration 0.1 % (weight)

CAS no. 10043-35-3

6. Water

Concentration 3 % (weight)

CAS no. 7732-18-5

Trade secret statement (OSHA 1910.1200(i))

The exact percentage(s) of composition have been withheld as a trade secret.

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

In case of skin contact Wash with plenty of water for at least 15 minutes. Call a poison center or doctor if irritation develops or persists.

In case of eye contact Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice.

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If swallowed

Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

4.2 Most important symptoms/effects, acute and delayed.

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2 Specific hazards arising from the chemical.

Closed containers may rupture if exposed to fire or extreme heat.

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up.

Soak up with inert absorbent material (e.g., sand, silica gel). Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use.

7.2 Conditions for safe storage, including any incompatibilities.

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8: Exposure controls/personal protection

8.2 Appropriate engineering controls

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Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Dark
Color	Dark
Odor	Strong Pepper/Garlic
Odor threshold	Not Applicable
Melting point/freezing point	Not Available
Boiling point or initial boiling point and boiling range	Not Available
Flammability	Not Available
Lower and upper explosion limit/flammability limit	Not Available
Flash point	120
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
pH	5.6
Kinematic viscosity	Not Available
Solubility	Not Available
Partition coefficient n-octanol/water (log value)	Not Available
Vapor pressure	Not Available
Evaporation rate	Not Available
Density and/or relative density	1.28-1.31
Relative vapor density	Not Available

Further safety characteristics (supplemental)

SECTION 10: Stability and reactivity

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10.1 Reactivity

None under normal use conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Thermal decomposition can lead to the release of irritating gases and vapors.

10.4 Conditions to avoid.

Keep away from open flames, hot surfaces, static electricity, and sources of ignition.

10.5 Incompatible materials

Incompatible with strong acids and bases and strong oxidizing agents.

10.6 Hazardous decomposition products

Thermal decomposition can lead to the release of irritating gases and vapors.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Boric acid

LD50 Oral - Rat - 2,660 mg/kg

Boric acid

LD50 Skin - Rat - 2,660 mg/kg

Boric acid

LD50 Inhalation - Rat - 2,660 mg/kg

Red Pepper

LD50 Oral - Rat - 24 mg/kg

Red Pepper

LD50 Skin - Rat - 512 mg/kg

Red Pepper

LD50 Inhalation - Rat - 1-20 mg/kg

Garlic

LD50 Oral - Rat - 30 mg/kg

Skin corrosion/irritation

May cause skin irritation.

Serious eye damage/irritation

Causes eye irritation.

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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Reproductive toxicity

No data available

Specific target organ toxicity (STOT) - single exposure

No data available

Specific target organ toxicity (STOT) - repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12: Ecological information

Toxicity

No data available on product

Persistence and degradability

No data available on product

Bioaccumulative potential

No data available on product

Mobility in soil

No data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Do not allow large quantities to reach groundwater, open bodies of water or sewer system.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Packaging disposal

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

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15.1 Safety, health, and environmental regulations specific for the product in question

SARA 313 Components

No SARA hazards.

SARA 311/312 Hazards

No SARA hazards.

SECTION 16: Other information

Certification Date: October 30, 2023

16.1 Further information/disclaimer

DISCLAIMER: 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.

16.2 Preparation information

Prepared by IMS Labs, - Crop Excellence Regulatory Consultant