



1.1 GHS Product identifier

Safety Data Sheet

Tentacle



1. Corrosion; 2. Health hazard

Signal word

Danger

Hazard statement(s)

Causes serious eye damage.

May damage fertility or the unborn child.

May cause damage to organs [organs] through prolonged or repeated exposure.

Precautionary statement(s)

P201

Obtain special instructions before use.

P202

Do not handle until all safety precautions have been read and understood.

P260

Do not breathe dust/fume/gas/mist/vapors/spray.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338

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

P308+P313

IF exposed or concerned: Get medical advice/attention.

P310

Immediately call a POISON CENTER/doctor.

P314

Get medical advice/attention if you feel unwell.

P405

Store locked up.

P501

Dispose of contents/container.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Boric acid

Concentration

> 1 % (weight)

CAS no.

10043-35-3

- Toxic to reproduction (C.4.10), Cat. 1B

H360FD

May damage fertility. May damage the unborn child.

SCLs/M-factors/ATEs

Repr. 1B; H360FD: C ≥ 5,5 %

2. Manganese (II) Sulfate

Concentration

> 10 % (weight)

CAS no.

7785-87-7

- Specific target organ toxicity (repeated exposure) (C.4.12), Cat. 2

- Hazardous to the aquatic environment, long-term (chronic) (chapter 4.1), Cat. 2

H373

May cause damage to organs [organs] through prolonged or repeated exposure.

H411

Toxic to aquatic life with long lasting effects

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3. Magnesium sulfate anhydrous

Concentration > 5 % (weight)
CAS no. 7487-88-9

4. Zinc sulfate

Concentration > 5 % (weight)
CAS no. 7733-02-0

- Acute toxicity, oral (C.4.1), Cat. 4
- Eye damage/irritation (C.4.5), Cat. 1
- Hazardous to the aquatic environment, short-term (acute) (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment, long-term (chronic) (chapter 4.1), Cat. 1

H302 Harmful if swallowed.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects

5. Sodium Molybdate Dihydrate

Concentration 1 % (weight)
CAS no. 10102-40-6

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	If breathed in, move person into fresh air. If not breathing, give artificial respiration. 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. Acute and delayed symptoms and effects: May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.
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.
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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.

Do not use direct water streams. May spread fire.

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, sewers, and public waters. Retain and dispose of contaminated water used for washing residues.

6.3 Methods and materials for containment and cleaning up.

Soak up with inert absorbent material and dispose of in accordance with local and national regulations. 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. Keep out of the reach of children.

7.2 Conditions for safe storage, including any incompatibilities.

Keep container tightly closed in a dry and well-ventilated place. Keep container tightly closed when not in use. Store in a dry place. Protect from atmospheric moisture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Boric acid (CAS: 10043-35-3 EC: 233-139-2)

TWA: 2.000000, mg/m³; USA (ACGIH)

Upper Respiratory Tract irritation. Not classifiable as a human carcinogen varies.

STEL: 6.000000, mg/m³; USA (ACGIH)

Upper Respiratory Tract irritation. Not classifiable as a human carcinogen varies.

TWA: 2.000000, mg/m³; USA (ACGIH)

Upper Respiratory Tract irritation. Not classifiable as a human carcinogen varies.

TWA: 2.000000, mg/m³; USA (ACGIH)

Upper Respiratory Tract irritation. Not classifiable as a human carcinogen varies.

STEL: 6.000000, mg/m³; USA (ACGIH)

Upper Respiratory Tract irritation. Not classifiable as a human carcinogen varies.

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STEL: 6.000000, mg/m³; USA (ACGIH)

Upper Respiratory Tract irritation. Not classifiable as a human carcinogen varies.

TWA: 2 mg/m³; USA (ACGIH)

Upper Respiratory Tract irritation. Not classifiable as a human carcinogen varies.

STEL: 6 mg/m³; USA (ACGIH)

Upper Respiratory Tract irritation. Not classifiable as a human carcinogen varies.

8.2 Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

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).

Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Amber
Color	Amber
Odor	Not Available
Odor threshold	Not Available
Melting point/freezing point	32°F
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	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
pH	2.5-4.0

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Kinematic viscosity	Not Available
Solubility	Dispersible
Partition coefficient n-octanol/water (log value)	Not Available
Vapor pressure	Not Available
Evaporation rate	Not Available
Density and/or relative density	10.91lbs./gal, 1.21 (SG)
Relative vapor density	Not Available

SECTION 10: Stability and reactivity

10.1 Reactivity

None under normal use conditions.

10.2 Chemical stability

Stable under recommended use conditions and storage

10.3 Possibility of hazardous reactions

None that are known.

10.4 Conditions to avoid.

Elevated temperatures can cause product to decompose. Avoid direct sunlight or ultraviolet sources.

10.5 Incompatible materials

Boric acid: Potassium, Acid anhydrides

10.6 Hazardous decomposition products

Boric acid: Hazardous decomposition products formed under fire conditions. - Borane/boron oxides

Other decomposition products - No data available

In the event of fire: see section 5.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

No data available.

Skin corrosion/irritation

May cause skin irritation.

Serious eye damage/irritation

Causes eye irritation.

Respiratory or skin sensitization

May cause an allergic skin reaction.

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.

Reproductive toxicity

No data available

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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

Material is readily biodegradable.

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.

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.

Other disposal recommendations

Avoid releasing into the environment.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

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

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SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

New Jersey Right To Know Components

Boric acid

CAS-No. 10043-35-3

Pennsylvania Right To Know Components

Boric acid

CAS-No. 10043-35-3

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Canadian Domestic Substances List (DSL)

Chemical name: Boric acid

CAS: 11113-50-1

Canadian Domestic Substances List (DSL)

Chemical name: Boric acid (H₃BO₃)

CAS: 10043-35-3

Canadian Domestic Substances List (DSL)

Chemical name: Sulfuric acid, manganese salt

CAS: 10124-55-7

Canadian Domestic Substances List (DSL)

Chemical name: Sulfuric acid, manganese(2++) salt (1:1)

CAS: 7785-87-7

Canadian Domestic Substances List (DSL)

Chemical name: Sulfuric acid magnesium salt (1:1)

CAS: 7487-88-9

Canadian Domestic Substances List (DSL)

Chemical name: Sulfuric acid magnesium salt (1:1), heptahydrate

CAS: 10034-99-8

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Massachusetts Right To Know Components

Chemical name: Zinc sulfate

CAS number: 7733-02-0

New Jersey Right To Know Components

Common name: ZINC SULFATE

CAS number: 7733-02-0

Pennsylvania Right To Know Components

Chemical name: Sulfuric acid, zinc salt (1:1)

CAS number: 7733-02-0

Canadian Domestic Substances List (DSL)

Chemical name: Sulfuric acid, zinc salt (1:1)

CAS: 7733-02-0

Canadian Domestic Substances List (DSL)

Chemical name: Sulfuric acid, zinc salt (1:1), monohydrate

CAS: 7446-19-7

Toxic Substances Control Act (TSCA) Inventory

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

HMIS Rating

Health	0
Flammability	1
Physical hazard	0
Personal protection	

NFPA Rating

Health hazard	0
Fire hazard	1
Reactivity hazard	0
Special hazard	

SECTION 16: Other information

Certification Date: November 29, 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