

Safety Data Sheet

Section 1. Identification

Product Name: Hydro Bullet Battalion™ 8-2-1

Recommended use: Plant Food **Restrictions on use:** Use only as directed

Manufacturer Name: Compass Minerals USA Inc. Compass Minerals Manitoba Inc.
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Section 2. Hazard(s) Identification
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Classification:

Physical	Health
Not Classified	Eye Irritant Category 2A Toxic to Reproduction Category 2

Warning!



Hazard statement(s)

H319 Causes serious eye irritation.
 H361 Suspected of damaging fertility or the unborn child by ingestion.

Precautionary statement(s)

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P264 Wash thoroughly after handling.
 P280 Wear eye protection.
 P308 + P313 If exposed or concerned: Get medical attention.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 If eye irritation persists: Get medical attention.
 P405 Store locked up.

P501 Dispose of contents and container in accordance with local and national regulations.

Section 3. Composition / Information on Ingredients

Chemical name	CAS No.	Concentration
Urea	57-13-6	10-20%
Phosphoric Acid	7664-38-2	<5%
Zinc Sulfate	7446-20-0	<1%
Copper Sulfate	7758-99-8	<1%
Boric Acid	10043-35-3	<0.5%

The exact concentration is being withheld as a trade secret.

Section 4. First-Aid Measures

Inhalation: Remove victim to fresh air. If breathing is difficult or irritation persists, get medical attention.

Skin contact: Flush thoroughly with water. Get medical attention if irritation or symptoms of exposure develop. Remove and launder contaminated clothing before re-use.

Eye contact: Immediately flush eyes with large quantities of water for several minutes, while holding the eyelids apart. Remove contact lenses if easy to do so. Continue rinsing. Get medical attention if irritation persists.

Ingestion: Rinse out mouth with water. Get medical attention if symptoms develop or persist.

Most important symptoms/effects, acute and delayed: May cause moderate eye irritation. This product contains boric acid that may cause reproductive and developmental effects based on animal data.

Indication of immediate medical attention and special treatment, if necessary: Immediate medical attention is not required.

Section 5. Fire-Fighting Measures

Suitable (and unsuitable) extinguishing media: Use media appropriate for the surrounding environment.

Specific hazards arising from the chemical: Not flammable or combustible. Combustion may produce oxides of carbon, boron, zinc and other metal oxides.

Special protective equipment and precautions for fire-fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Avoid contact with eyes and skin. Wear appropriate protective clothing as described in Section 8. Avoid breathing mists or vapors. Ventilate area.

Environmental precautions: Avoid releases to the environment. Report spills and releases as required to appropriate authorities.

Methods and materials for containment and cleaning up: Cover with an inert absorbent material and collect into an appropriate container for disposal.

Section 7. Handling and Storage

Precautions for safe handling: Avoid contact with eyes, skin, and clothing. Always wear impervious gloves, chemical safety goggles and protective clothing when handling this material. Wash thoroughly after handling. Do not breathe mists or vapors. Use with adequate ventilation. Do not eat, drink or smoke in the work area. Keep product away from heat and flames. Keep containers closed when not in use.

Conditions for safe storage, including any incompatibilities: Store in a cool, dry, well ventilated location away from oxidizers and other incompatible materials. Keep containers closed when not in use. Protect from physical damage.

Section 8. Exposure Controls / Personal Protection

Exposure guidelines:

Urea	10 mg/m ³ TWA AIHA WEEL
Phosphoric Acid	1 mg/m ³ TWA, 3 mg/m ³ STEL ACGIH TLV 1 mg/m ³ TWA OSHA PEL
Zinc Sulfate	None Established
Copper Sulfate (as copper, dusts and mists)	1 mg/m ³ TWA ACGIH TLV 1 mg/m ³ TWA OSHA PEL
Boric Acid (as borate compounds, inorganic)	2 mg/m ³ TWA, 6 mg/m ³ STEL (inhalable) ACGIH TLV

Appropriate engineering controls: General exhaust ventilation should be adequate to maintain exposures below the occupational exposure limits.

Personal Protective Equipment:

Respiratory protection: If occupational exposure limits are exceeded, an approved respirator with a dust/mist cartridge or a supplied air respirator may be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Skin protection: Suitable gloves are recommended as needed to avoid prolonged skin contact.

Eye protection: Chemical safety goggles are recommended if contact is possible.

Other: Eye wash should be available if contact may occur. Wear protective clothing as needed to prevent contact and contamination of personal clothing.

Section 9. Physical and Chemical Properties

Appearance: Brown colored liquid

Odor: Fragrant

Odor threshold: Not available	pH: Not available
Melting point/freezing point: Not available	Boiling Point: Not available
Flash point: Not available	Evaporation rate: Not available
Flammability (solid, gas): Not applicable	
Flammable limits: LEL: Not available	UEL: Not available
Vapor pressure: Not available	Vapor density: Not available
Relative density: Not available	Solubility(ies): Not available

Partition coefficient: n-octanol/water: Not available	Auto-ignition temperature: Not available
Decomposition temperature: Not available	Viscosity: Not available

Section 10. Stability and Reactivity

Reactivity: Not reactive under normal conditions of use.

Chemical stability: Stable under normal storage and handling conditions.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Avoid extremely high or low temperatures. Keep away from heat, hot surfaces or open flames.

Incompatible materials: Strong oxidizing agents, acids, bases, powdered metals, halogens and reducing agents.

Hazardous decomposition products: Thermal decomposition may release oxides of carbon, sulfur, boron, zinc and other metal oxides.

Section 11. Toxicological Information

Acute effects of exposure:

Inhalation: Inhalation of mists or vapors may cause upper respiratory irritation with sneezing and coughing.

Ingestion: Swallowing large amounts may cause gastrointestinal irritation, nausea and diarrhea.

Skin contact: Prolonged or repeated contact may cause skin irritation.

Eye contact: Direct contact with eyes may cause moderate eye irritation with redness and tearing.

Chronic effects: None known.

Germ Cell Mutagenicity: None of the components have been shown to cause germ cell mutagenicity.

Reproductive Toxicity: Boric acid and inorganic borates have been shown to cause damage to fertility and developmental effects based on animal studies.

Carcinogenicity: None of the components of this product are listed as carcinogens or suspected carcinogens by IARC, NTP, OSHA or ACGIH.

Acute toxicity values:

Product ATE: >5000 mg/kg (oral)

Urea: Oral rat LD50- 14300 mg/kg

Phosphoric Acid: Oral rat LD50-300-<2000 mg/kg

Zinc Sulfate: Oral LD50-1710 mg/kg, Skin rabbit LD50->2000 mg/kg

Copper Sulfate: Oral rat LD50-481 mg/kg, Skin rat LD50->2000 mg/kg

Boric Acid: Oral rat LD50-3450 mg/kg, Inhalation rat LC50->2.03 mg/L/4hr (no mortality), Skin rabbit LD50->2000 mg/kg

Section 12. Ecological Information

Ecotoxicity Data:

Urea: 96hr LC50 Golden Orfe fish- >6810 mg/L

Phosphoric Acid: 48hr EC50 Daphnia magna- >100 mg/L

Zinc Sulfate: 96hr LC50 Rainbow trout- 0.169 mg/L, 96hr LC50 Fathead minnow- 0.780 mg/L, 48hr EC50

Ceriodaphnia dubia- 0.147 mg/L, 30 day NOEC Rainbow trout- 0.199 mg/L, 21 days NOEC Daphnia magna- 0.042 mg/L

Copper Sulfate: 96 hr LC50 Fathead minnow- 0.0384 mg/L, 48hr EC50 Daphnia magna- 0.0338 mg/L

Boric Acid: 96hr LC50 Fathead minnow- 79.7 mg/L, 72hr EC50 Pseudokirchneriella subcapitata- 52.4 mg/L

This product is expected to be toxic to the aquatic environment and harmful to the aquatic environment with long-term adverse effects. Releases to the environment should be avoided.

Persistence and degradability: Biodegradation is not applicable to inorganic compounds.

Bioaccumulative potential: Not data available.

Mobility in soil: No data available.

Other adverse effects: None known.

Section 13. Disposal Considerations

Dispose in accordance with all local, state and federal regulations.

Section 14. Transport Information

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
US DOT		Not Regulated			
Canadian TDG		Not Regulated			
EU ADR/RID		Not Regulated			
IMDG		Not Regulated			
IATA/ICAO		Not Regulated			

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable

Special precautions: None known

Section 15. Regulatory Information

CERCLA Hazardous Substances (Section 103)/RQ: This product has a Reportable Quantity (RQ) of 100,000 lbs. (based on the RQ for Phosphoric acid of 5,000 lbs). Releases above the RQ must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Refer to Section 2 for OSHA Hazard Classification

SARA 313 Information: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

California Proposition 65: This product does not contain substances known in the State of California to cause cancer and/or reproductive harm.

US EPA TSCA Inventory: All of the ingredients in this product are listed on the EPA TSCA Inventory or exempt.

International Chemical Inventories:

Canadian CEPA: All of the components are listed on the Canadian Domestic Substances List (DSL) or exempt.

Section 16. Other Information

SDS Revision History: Updated Section 1, 3, 8, 11 and 12.
Date of preparation: November 13, 2019
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