

Safety Data Sheet

Section 1. Identification

Product Name: Wolf Trax 3-Trax DDP

Recommended use: Plant Food

Restrictions on use: Use only as directed

Manufacturer Name:	Compass Minerals USA Inc.	Compass Minerals Manitoba Inc.
Address:	9900 West 109th St., Suite 100 Overland Park, KS 66210	6700 Century Avenue Mississauga L5N 64 CA
Telephone number	1 913-344-9200	1-905-567-0231

E-mail techservicesrequests@compassminerals.com

Website: www.compassminerals.com

Emergency phone number: Call CHEMTREC Day or Night
+1 703-527-3887 (collect calls accepted)

Section 2. Hazard(s) Identification
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Classification:

Physical	Health
None	Eye Damage Category 1 Toxic to Reproduction Category 2 Specific Target Organ Toxicity Repeated Exposure Category 2

Danger!



Hazard statement(s)

H318 Causes serious eye damage.
H360 May damage fertility or the unborn child.
H373 May cause damage to brain through prolonged or repeated exposure by inhalation.

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,
P280 Wear protective gloves and eye 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.

P310 Immediately call a POISON CENTER or doctor.
P308 + P313 IF exposed or concerned: 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
Boric Acid	10043-35-3	5-10%
Manganese Sulfate	7765-87-7	20-30%
Zinc Oxide	1314-13-2	20-30%
Disodium Octaborate Tetrahydrate	12008-41-2	10-20%
Zinc Sulfate	7446-19-7	10-20%
Manganese Oxide	344-43-0	5-10%

Section 4. First-Aid Measures

Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen. Get medical attention if irritation persists.

Skin contact: No first aid should be needed. Remove contaminated clothing and launder before reuse. Wash skin with soap and water. Get medical attention if irritation develops or persists.

Eye contact: Immediately flush eyes with water for 20 minutes while lifting the upper and lower lids. Get immediate medical attention.

Ingestion: Rinse out mouth with water. Get medical attention.

Most important symptoms/effects, acute and delayed: Causes severe eye irritation or burns. Permanent damage may occur. May cause mechanical skin irritation. Inhalation of dust may cause respiratory irritation, coughing and difficulty in breathing. Prolonged overexposure by inhalation may cause brain damage. May cause reproductive and developmental effects based on animal data.

Indication of immediate medical attention and special treatment, if necessary: If eye contact occurs, get immediate medical attention.

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. Dry powders may accumulate static charge in handling which can be a source of ignition for flammable atmospheres. Combustion may produce oxides of carbon, zinc, sulfur, copper, boron and manganese.

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

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Wear appropriate protective clothing as described in Section 8.

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

Methods and materials for containment and cleaning up: Collect using dustless method and place in appropriate container for use or disposal. Do not flush to the sewer.

Section 7. Handling and Storage

Precautions for safe handling: Prevent contact with eyes. Avoid contact with skin and clothing. Avoid breathing dust. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation and proper dust collection methods to keep exposure level below occupational exposure limits. Wash thoroughly with soap and water after use.

Conditions for safe storage, including any incompatibilities: Store in a cool, well-ventilated area. Protect from physical damage.

Section 8. Exposure Controls / Personal Protection

Exposure guidelines:

Boric Acid	2 mg/m ³ TWA, 6 mg/m ³ STEL ACGIH TLV
Manganese Sulfate (as Mn inorganic compounds)	5 mg/m ³ Ceiling OSHA PEL 0.02 mg/m ³ TWA (respirable), 0.1 mg/m ³ TWA (inhalable) ACGIH TLV
Zinc Oxide	5 mg/m ³ TWA (respirable fraction), 15 mg/m ³ TWA (total dust) OSHA PEL 2 mg/m ³ TWA, 10 mg/m ³ STEL ACGIH TLV (respirable)
Disodium Octaborate Tetrahydrate	2 mg/m ³ TWA, 6 mg/m ³ STEL ACGIH TLV
Zinc Sulfate	None Established
Manganese Oxide (as Mn inorganic compounds)	5 mg/m ³ Ceiling OSHA PEL 0.02 mg/m ³ TWA (respirable), 0.1 mg/m ³ TWA (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, a dust filtering mask, 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 contact.

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

Other: Eye wash should be available if contact may occur.

Section 9. Physical and Chemical Properties

Appearance: Solid Powder.

Odor: No odor.

Odor threshold: Not available	pH: 6-7
Melting point/freezing point: Not available	Boiling Point: Not applicable
Flash point: Not applicable	Evaporation rate: Not applicable
Flammability (solid, gas): Not flammable	
Flammable limits: LEL: Not applicable	UEL: Not applicable
Vapor pressure: Not applicable	Vapor density: Not applicable
Relative density: Not available	Solubility(ies): Not available
Partition coefficient: n-octanol/water: Not applicable	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

Possibility of hazardous reactions: None known.

Conditions to avoid: None known.

Incompatible materials: None known. .

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

Section 11. Toxicological Information

Acute effects of exposure:

Inhalation: Dust may cause upper respiratory irritation with sneezing and coughing.

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

Skin contact: No adverse effects expected. May cause mechanical skin irritation.

Eye contact: Contact may cause severe irritation, redness and tearing. May cause permanent eye damage.

Chronic effects: Prolonged overexposure to manganese have been shown to cause permanent neurological damage in humans.

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.

Acute toxicity values: Product Acute Toxicity Value: Oral 5917 mg/kg, Dermal >2000 mg/kg

Boric Acid: Oral rat LD50 3450 mg/kg, Inhalation rat LC50 >3.02 mg/L (no deaths occurred), Dermal rabbit LD50 >2000 mg/kg

Manganese Sulfate: Oral rat LD50 2150 mg/kg, inhalation rat LC50 > 4.45 mg/L/4 hr

Zinc Oxide: Oral rat LD50 >2000 mg/kg, Inhalation rat LC50 >5.7 mg/L, Dermal rat LD50 >2000 mg/kg

Disodium Octaborate Tetrahydrate: Oral rat LD50 >2550 mg/kg, Inhalation rat LC50 >2.04 mg/L/4 hr, Dermal rat LD50 >2000 mg/kg

Zinc Sulfate: Oral rat LD50 1710 mg/L, Dermal rat LD50 >2000 mg/kg

Manganese Oxide: Oral rat LD50 >2000 mg/kg, Inhalation rat LC50 >5.35 mg/L/4 hr

Section 12. Ecological Information

Ecotoxicity Data:

Boric Acid: 96 hr LC50 Pimephales promelas 79.7 mg/L, 48 hr LC50 Ceriodaphnia dubia 102 mg/L, 72 hr EC50 Pseudokirchneriella subcapitata 52.42 mg/L
 Manganese Sulfate: 96 hr LC50 Oncorhynchus mykiss 3.17 mg,
 Zinc Oxide: 96 hr LC50 Oncorhynchus kisutch 727 ug/L, 48 hr EC50 daphnia magna 860 ug/L, 72 hr NOEC Pseudokirchneriella subcapitata 5.4 ug/L
 Disodium Octaborate Tetrahydrate: 96 hr LC50 Limanda 74 mg/L, 48 hr LC50 Ceriodaphnia dubia 93 mg/L, 72 hr EC50 Phaeodactylum tricornutum 66 mg/L
 Zinc Sulfate: 96 hr LC50 Oncorhynchus kisutch 727 ug/L, 48 hr EC50 daphnia magna 860 ug/L, 72 hr NOEC Pseudokirchneriella subcapitata 5.4 ug/L
 Manganese Oxide: 96 hr LC50 Oncorhynchus mykiss >100 mg/L, 48 hr EC50 daphnia magna >100 mg/L, 72 hr EC50 Desmodesmus subspicatus >100 mg/L

This product is classified as very toxic to aquatic life and toxic to aquatic life with long lasting 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	UN3077	Environmentally hazardous substance, solid, n.o.s (zinc oxide, zinc sulfate)	9	PG III	Yes
IMDG*	UN3077	Environmentally hazardous substance, solid, n.o.s (zinc oxide, zinc sulfate)	9	PG III	Yes
IATA/ICAO*	UN3077	Environmentally hazardous substance, solid, n.o.s (zinc oxide, zinc sulfate)	9	PG III	Yes

*This product is classified as a Marine Pollutant (Environmentally Hazardous Substance) in accordance with the IMDG Code and the UN Model Regulations. However, if it is packaged in either single packages or inner packagings in combination packages containing net quantities of less than 5 kg/5 L, the Marine Pollutant does

not apply (IMDG Code 2.10.2.7).

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 5000 lbs. (based on the RQ for Zinc Sulfate of 1,000 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):

Manganese Sulfate	7765-87-7	20-30%
Zinc Oxide	1314-13-2	20-30%
Zinc Sulfate	7446-19-7	10-20%

California Proposition 65

This product contains the following chemicals known to the State of California to cause cancer or reproductive toxicity (birth defects):

Naphthalene	91-20-3	<25 ppm	cancer
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International Chemical Inventories:

Australia: All the components are listed in the Australian Inventory of Chemical Substances (AICS).

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

China IECSC: All of the components are listed on the Inventory of Existing Chemical Substances in China (IECSC)

EU EINECS: All of the components are listed on the European Inventory of New and Existing Commercial chemical Substances (EINECS).

Korea KECL: All of the components are listed on the Korean Existing Chemicals List (KECL)

New Zealand NZIoC: All of the components are listed on the New Zealand Inventory of Chemicals (NZIoC).

Philippines: All of the components are listed on the Philippine Inventory of Chemicals and Chemical Substances.

US EPA TSCA Inventory: All of the components are listed on the EPA TSCA Inventory.

Section 16. Other Information

SDS Revision History: New SDS

Date of preparation: April 9, 2018

Date of last revision: New SDS