


1. Identification

Product identifier	Wolf Trax Nu- Trax P+
Other means of identification	Not available
Recommended use	Fertilizer
Recommended restrictions	None known.
Manufacturer information	Compass Minerals USA Inc. 9900 West 109th Street, Suite 100 Overland Park, KS 66210 US Phone (913) 344-9200
Supplier	Compass Minerals Manitoba Inc. 6700 Century Avenue Mississauga L5N 6A4 CA http://www.compassminerals.com/ Phone (905) 567-0231 techservicesrequests @compassminerals.com
CHEMTREC	1-800-424-9300
CANUTEC	1-613-996-6666

2. Hazard identification

Physical hazards	Not classified.	
Health hazards	Serious eye damage/eye irritation	Category 1
	Specific target organ toxicity, repeated exposure	Category 2
Environmental hazards	Not classified.	
WHMIS 2015 defined hazards	Not classified	
Label elements		
Signal word	Danger	
Hazard statement	Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure.	
Precautionary statement		
Prevention	Do not breathe dust. Wash thoroughly after handling. Wear eye/face protection.	
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. Get medical attention if you feel unwell.	
Storage	Store away from incompatible materials.	
Disposal	Dispose of container in accordance with local, regional, national and international regulations.	
WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)	None known	

WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)	None known
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	Not applicable.

3. Composition/Information on ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
Metal Oxide		HMIRA 10769	HMIRA 10769
Metal Salt #1		HMIRA 10769	HMIRA 10769
Metal Salt #2		HMIRA 10769	HMIRA 10769

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The filing date associated with this trade secret exemption is 2016-12-09

4. First-aid measures

Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Skin contact	Brush away excess of dry material. Flush with water. Obtain medical attention if irritation persists.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Ingestion	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth if victim is unconscious or is convulsing. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Dusts may irritate the respiratory tract, skin and eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Wear suitable protective clothing. Keep out of reach of children.

5. Fire-fighting measures

Suitable extinguishing media	Water spray. Water fog. Foam. Carbon dioxide (CO2). Apply extinguishing media carefully to avoid creating airborne dust.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. Firefighters should wear a self-contained breathing apparatus.
Special protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self-contained breathing apparatus.
Fire-fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Move containers from fire area if you can do so without risk. Cool containers with flooding quantities of water until well after fire is out.
Specific methods	Cool containers exposed to flames with water until well after the fire is out.
General fire hazards	Not established.
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Oxides of sulfur. Metal oxides.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Use only non-sparking tools. 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 personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Sweep up or vacuum up spillage and collect in suitable container for disposal. Following product recovery, flush area with water.

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling Minimize dust generation and accumulation. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Avoid breathing dust. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Keep container tightly closed.

Conditions for safe storage, including any incompatibilities Keep away from heat, sparks and open flame. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Store in a cool, dry place out of direct sunlight. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

8. Exposure controls/Personal protection

Occupational exposure limits

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value	Form
Metal Oxide (CAS HMIRA 10769)	STEL	10 mg/m3	Respirable.
	TWA	2 mg/m3	Respirable.
Metal Salt #1 (CAS HMIRA 10769)	TWA	0.2 mg/m3	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
Metal Oxide (CAS HMIRA 10769)	STEL	10 mg/m3	Respirable.
	TWA	2 mg/m3	Respirable.
Metal Salt #1 (CAS HMIRA 10769)	TWA	0.2 mg/m3	Total
		0.02 mg/m3	Respirable.

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Type	Value	Form
Metal Oxide (CAS HMIRA 10769)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.
Metal Salt #1 (CAS HMIRA 10769)	TWA	0.1 mg/m3	Inhalable fraction.
		0.02 mg/m3	Respirable fraction.

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	Form
Metal Oxide (CAS HMIRA 10769)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.
Metal Salt #1 (CAS HMIRA 10769)	TWA	0.1 mg/m3	Inhalable fraction.

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

Components	Type	Value	Form
Metal Oxide (CAS HMIRA 10769)	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Fume.
		10 mg/m3	Total dust.
Metal Salt #1 (CAS HMIRA 10769)	TWA	0.2 mg/m3	Fume, total dust.

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Components	Type	Value	Form
Metal Oxide (CAS HMIRA 10769)	15 minute	10 mg/m3	Respirable fraction and dust or fume.

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Components	Type	Value	Form
	8 hour	2 mg/m3	Respirable fraction and dust or fume.
Metal Salt #1 (CAS HMIRA 10769)	15 minute	0.6 mg/m3	
	8 hour	0.2 mg/m3	

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Metal Oxide (CAS HMIRA 10769)	PEL	5 mg/m3	Fume.
		5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Metal Salt #1 (CAS HMIRA 10769)	Ceiling	5 mg/m3	

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Metal Oxide (CAS HMIRA 10769)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.
Metal Salt #1 (CAS HMIRA 10769)	TWA	0.1 mg/m3	Inhalable fraction.
		0.02 mg/m3	Respirable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Metal Oxide (CAS HMIRA 10769)	Ceiling	15 mg/m3	Dust.
	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Dust.
		5 mg/m3	Fume.
Metal Salt #1 (CAS HMIRA 10769)	STEL	3 mg/m3	Fume.
	TWA	1 mg/m3	Fume.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

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. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety goggles or glasses.

Skin protection

Hand protection

Impervious chemical resistant gloves. Confirm with a reputable supplier first.

Other

Wear suitable protective clothing. As required by employer code.

Respiratory protection

A dust filtering mask is recommended. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

Thermal hazards

Not applicable.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. Physical and chemical properties

Appearance	Solid.
Physical state	Solid.
Form	Powder
Color	Pink
Odor	Odorless

Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Pour point	Not available.
Specific gravity	Not available.
Partition coefficient (n-octanol/water)	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Reactivity	Do not mix with other chemicals.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Keep away from heat, sparks and open flame. Minimize dust generation and accumulation.
Incompatible materials	None when used and stored according to label directions.
Hazardous decomposition products	May include and are not limited to: Oxides of nitrogen. Oxides of sulfur. Metal oxides.

11. Toxicological information

Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Information on likely routes of exposure	
Ingestion	May cause stomach distress, nausea or vomiting.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	May be harmful in contact with skin.
Eye contact	Causes serious eye damage.
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Information on toxicological effects	
Acute toxicity	

Components	Species	Test Results
Metal Oxide (CAS HMIRA 10769)		
Acute		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg, 24 Hours, ECHA

Components	Species	Test Results
<i>Inhalation</i>		
LC50	Mouse	> 5.7 mg/L, 4 Hours, HSDB
	Rat	> 5700 mg/m3, 4 Hours, ECHA
<i>Oral</i>		
LD50	Mouse	> 5000 mg/kg, ECHA 2000 - 5000 mg/kg, ECHA
	Rat	> 15000 mg/kg, ECHA > 5000 mg/kg, ECHA > 5 g/kg, HSDB
Metal Salt #1 (CAS HMIRA 10769)		
Acute		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Rat	> 4.5 mg/L, 4 Hours, ECHA
<i>Oral</i>		
LD100	Mouse	305 mg/kg, HSDB
LD50	Mouse	2330 mg/kg, RTECS
	Rat	2150 mg/kg 1470 mg/kg, ECHA
Metal Salt #2 (CAS HMIRA 10769)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg, 24 Hours, ECHA
	Rat	> 2000 mg/kg, HSDB
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Mouse	1891 mg/kg, ECHA 926 mg/kg, ECHA 57 mg/kg, HSDB
	Rat	> 2500 mg/kg, ECHA 1000 - 2000 mg/kg, ECHA 2949 mg/kg, ECHA/HSDB 2280 mg/kg, ECHA 1710 mg/kg, ECHA 920 mg/kg, ECHA/HSDB 623 mg/kg, HSDB
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	
Serious eye damage/eye irritation	Causes serious eye damage.	
Corneal opacity value	Not available.	
Iris lesion value	Not available.	
Conjunctival reddening value	Not available.	
Conjunctival oedema value	Not available.	
Recover days	Not available.	

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis.

Mutagenicity Not classified.

Carcinogenicity Not classified.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Reproductive toxicity Not classified.

Teratogenicity Not classified.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful.
May cause damage to organs through prolonged or repeated exposure.
Chronic manganese poisoning can result in impairment of the central nervous system and lung damage.

12. Ecological information

Ecotoxicity See below

Ecotoxicological data

Components		Species	Test Results
Metal Oxide (CAS HMIRA 10769)			
Aquatic			
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	2246 mg/L, 96 hours
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	7.09 - 9.36 mg/L, 48 hours
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	24.3 - 38.9 mg/L, 96 hours
Algae	IC50	Algae	64.8 mg/L, 72 Hours
Crustacea	EC50	Daphnia	0.75 mg/L, 48 Hours
Aquatic			
Crustacea	EC50	Rotifer (<i>Philodina acuticornis</i>)	0.3 mg/L, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (<i>Oncorhynchus mykiss</i>)	0.162 mg/L, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Mobility in general Not available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

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 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

Transport of Dangerous Goods (TDG) Proof of Classification Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.**Canada CEPA Schedule I: Listed substance**

Metal Oxide (CAS HMIRA 10769) Listed.

Metal Salt #2 (CAS HMIRA 10769) Listed.

Canada Priority Substances List (Second List): Listed substance

Metal Oxide (CAS HMIRA 10769) Listed.

Metal Salt #2 (CAS HMIRA 10769) Listed.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions Controlled**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Metal Oxide (CAS HMIRA 10769) Listed.

Metal Salt #1 (CAS HMIRA 10769) Listed.

Metal Salt #2 (CAS HMIRA 10769) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)**SARA 302 Extremely hazardous substance** No**Classified hazard categories** Acute toxicity (any route of exposure)
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Metal Oxide	HMIRA 10769	HMIRA 10769
Metal Salt #1	HMIRA 10769	HMIRA 10769
Metal Salt #2	HMIRA 10769	HMIRA 10769

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Metal Salt #1 (CAS HMIRA 10769)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

US state regulations See below**US - California Hazardous Substances (Director's): Listed substance**

Metal Oxide (CAS HMIRA 10769) Listed.

Metal Salt #1 (CAS HMIRA 10769) Listed.

Metal Salt #2 (CAS HMIRA 10769) Listed.

US - Illinois Chemical Safety Act: Listed substance

Metal Oxide (CAS HMIRA 10769)

Metal Salt #1 (CAS HMIRA 10769)

Metal Salt #2 (CAS HMIRA 10769)

US - Louisiana Spill Reporting: Listed substance

Metal Oxide (CAS HMIRA 10769) Listed.

Metal Salt #1 (CAS HMIRA 10769) Listed.

Metal Salt #2 (CAS HMIRA 10769) Listed.

US - Michigan Critical Materials Register: Parameter number

Metal Oxide (CAS HMIRA 10769)
 Metal Salt #2 (CAS HMIRA 10769)

US - Minnesota Haz Subs: Listed substance

Metal Oxide (CAS HMIRA 10769) Listed.
 Metal Salt #1 (CAS HMIRA 10769) Listed.

US - North Carolina Toxic Air Pollutants: Listed substance

Metal Salt #1 (CAS HMIRA 10769)

US - Texas Effects Screening Levels: Listed substance

Metal Oxide (CAS HMIRA 10769) Listed.
 Metal Salt #1 (CAS HMIRA 10769) Listed.
 Metal Salt #2 (CAS HMIRA 10769) Listed.

US. Massachusetts RTK - Substance List

Metal Oxide (CAS HMIRA 10769)
 Metal Salt #2 (CAS HMIRA 10769)

US. New Jersey Worker and Community Right-to-Know Act

Metal Oxide (CAS HMIRA 10769)
 Metal Salt #1 (CAS HMIRA 10769)
 Metal Salt #2 (CAS HMIRA 10769)

US. Pennsylvania Worker and Community Right-to-Know Law

Metal Oxide (CAS HMIRA 10769)
 Metal Salt #1 (CAS HMIRA 10769)
 Metal Salt #2 (CAS HMIRA 10769)

US. Rhode Island RTK

Metal Oxide (CAS HMIRA 10769)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Inventory status

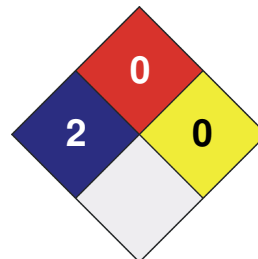
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	* 2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

**Disclaimer**

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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01

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Prepared by

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Further information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

Other information

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