

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** WOLF TRAX® NU-TRAX P+® 4-25-0

Other means of identification None.

Recommended use Plant Micronutrient. Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Manufacturer/Supplier Koch Agronomic Services, LLC

> 4111 E 37th St N Wichita, KS 67220 US kochmsds@kochind.com

1.866.863.5550

**Emergency** For Chemical Emergency

> Call CHEMTREC day or night USA/Canada - 1.800.424.9300 Mexico - 1.800.681.9531

Outside USA/Canada - 1.703.527.3887

(collect calls accepted)

# 2. Hazard(s) identification

Physical hazards Not classified.

Serious eye damage/eye irritation **Health hazards** Category 1 Category 2

Specific target organ toxicity, repeated

exposure

**OSHA** defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Causes serious eye damage. May cause damage to organs through prolonged or repeated

**Precautionary statement** 

Prevention Do not breathe dust. Avoid release to the environment. Wear eye protection/face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and Response

easy to do. Continue rinsing. Immediately call a poison center/doctor. Collect spillage.

Store away from incompatible materials. **Storage** 

Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Monoammonium phosphate	7722-76-1	20 - 60

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Chemical name	CAS number	%
Zinc oxide	1314-13-2	20 - 40
Manganese sulfate monohydrate	10034-96-5	10 - 30
Zinc Sulfate Monohydrate	7446-19-7	5 - 10

#### **Composition comments**

Hydrated forms of chemical substances are exempt from the TSCA Inventory as mixtures. See the anhydrous form of the chemical substances for the TSCA Inventory.

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact**Wash off with soap and water. Get medical attention if irritation develops and persists.

**Eye contact**Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Dusts may irritate the respiratory tract, skin and eyes. Coughing. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information**If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

and precautions for firefighters Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

Specific methods
Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. 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

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect dust using a vacuum cleaner equipped with HEPA filter. Prevent product from entering drains. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination.

# Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

SDS US

### 7. Handling and storage

Precautions for safe handling

Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Do not get this material in contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

# Occupational exposure limits

Components	Туре	Value	Form
Manganese sulfate monohydrate (CAS 10034-96-5)	Ceiling	5 mg/m3	
Zinc oxide (CAS 1314-13-2)	PEL	5 mg/m3	Respirable fraction
		5 mg/m3	Fume.
		15 mg/m3	Total dust.
US. ACGIH Threshold Limit Values	<b>S</b>		
Components	Туре	Value	Form
Manganese sulfate monohydrate (CAS 10034-96-5)	TWA	0.1 mg/m3	Inhalable fraction.
		0.02 mg/m3	Respirable fraction
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction
	TWA	2 mg/m3	Respirable fraction
US. NIOSH: Pocket Guide to Chem	nical Hazards		
Components	Туре	Value	Form
Manganese sulfate monohydrate (CAS 10034-96-5)	STEL	3 mg/m3	Fume.
	TWA	1 mg/m3	Fume.
Zinc oxide (CAS 1314-13-2)	Ceiling	15 mg/m3	Dust.
	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Dust.

Biological limit values
Appropriate engineering controls

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

Good general ventilation 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. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures

below the recommended exposure limits. Provide eyewash station.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Skin protection

Other Wear suitable protective clothing.

Respiratory protection Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels

exceeding the exposure limits.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

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**General hygiene** considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** 

Physical state Solid. **Form** Powder. Pink Color

Odor Not available. **Odor threshold** Not available.

4 - 5

Not available. Melting point/freezing point Initial boiling point and boiling Not available.

range

Not available. Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available. Vapor pressure Not available. Vapor density Not available. Relative density Not available.

Solubility(ies)

Solubility (water) Not available. **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. Not available. **Decomposition temperature Viscosity** Not available.

Other information

**Explosive properties** Not explosive. Oxidizing properties Not oxidizing.

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. **Chemical stability** 

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

products

Metal oxides.

### 11. Toxicological information

# Information on likely routes of exposure

Inhalation Dust may irritate respiratory system. Prolonged inhalation may be harmful.

Skin contact Dust or powder may irritate the skin.

Eye contact Causes serious eye damage.

Ingestion May cause discomfort if swallowed.

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Symptoms related to the physical, chemical and toxicological characteristics

Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Dusts may irritate the respiratory tract, skin and eyes. Coughing.

#### Information on toxicological effects

Acute toxicity

Components Species Test Results

Manganese sulfate monohydrate (CAS 10034-96-5)

Acute Oral

LD50 Rat 2150 mg/kg

Monoammonium phosphate (CAS 7722-76-1)

**Acute** 

**Dermal** 

LD50 Rat > 5000 mg/kg

Inhalation

LD50 Rat  $> 5000 \text{ mg/m}^3$ 

Oral

LD50 Rat > 2000 mg/kg

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

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 an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful. May cause damage to organs through prolonged or

repeated exposure.

12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Components Species Test Results

Zinc oxide (CAS 1314-13-2)

Aquatic

Crustacea LC50 Water flea (Daphnia magna) 0.098 mg/l, 48 Hours

Zinc Sulfate Monohydrate (CAS 7446-19-7)

Aquatic

Crustacea EC50 Water flea (Ceriodaphnia dubia) 0.06 mg/l, 48 hours

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Components **Species Test Results** 

LC50 Hirame, flounder (Paralichthys Fish < 10 mg/l, 96 hours

olivaceus)

No data is available on the degradability of any ingredients in the mixture. Persistence and degradability

No data available. **Bioaccumulative potential** Mobility in soil No data available. Other adverse effects No data available.

### 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

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 Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

### 14. Transport information

DOT

UN3077 **UN number** 

**UN proper shipping name** 

Environmentally hazardous substances, solid, n.o.s. (Zinc oxide)

Transport hazard class(es)

Class 9 Subsidiary risk Label(s) 9 Packing group Ш

**Environmental hazards** 

Marine pollutant Yes.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

DOT (Road/Rail): Non-bulk shipments of this material are non-regulated for domestic ground

transportation when they meet the requirements of 49 CFR 171.4(c).

Special provisions 8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33

Packaging exceptions 155 213 Packaging non bulk Packaging bulk 240

IATA

UN3077 UN number

**UN** proper shipping name

Environmentally hazardous substance, solid, n.o.s. (Zinc oxide) Transport hazard class(es)

9 **Class** Subsidiary risk Ш Packing group **Environmental hazards** Yes. 9L **ERG Code** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN** number UN3077

**UN proper shipping name** Transport hazard class(es)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)

Class 9 Subsidiary risk Ш **Packing group** 

**Environmental hazards** 

Marine pollutant Yes. F-A. S-F **EmS** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

# 15. Regulatory information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US** federal regulations

Standard, 29 CFR 1910.1200.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable.

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Manganese sulfate monohydrate (CAS 10034-96-5) Listed Zinc oxide (CAS 1314-13-2) Listed.

# SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

**Toxic Substances Control Act (TSCA)** All components on the TSCA 8(b) inventory are designated "active".

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

SARA 311/312 Hazardous

Yes

chemical

Classified hazard Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure) categories

### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Manganese sulfate monohydrate	10034-96-5	10 - 30	
Monoammonium phosphate	7722-76-1	20 - 60	
Zinc oxide	1314-13-2	20 - 40	
Zinc Sulfate Monohydrate	7446-19-7	5 - 10	

#### Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Manganese sulfate monohydrate (CAS 10034-96-5)

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

### **US** state regulations

#### **US. Massachusetts RTK - Substance List**

Zinc oxide (CAS 1314-13-2)

Zinc Sulfate Monohydrate (CAS 7446-19-7)

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

Manganese sulfate monohydrate (CAS 10034-96-5)

Zinc oxide (CAS 1314-13-2)

Zinc Sulfate Monohydrate (CAS 7446-19-7)

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

Manganese sulfate monohydrate (CAS 10034-96-5)

Zinc oxide (CAS 1314-13-2)

Zinc Sulfate Monohydrate (CAS 7446-19-7)

#### **US. Rhode Island RTK**

Zinc oxide (CAS 1314-13-2)

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#### **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. For more information go to www.P65Warnings.ca.gov.

## **International Inventories**

Country(s) or region Inventory name On inventory (yes/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)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

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Revision date - Version # 01

**HMIS**® ratings Health: 3\*

Flammability: 1 Physical hazard: 0

NFPA ratings



#### Disclaimer

NOTICE: The information contained in this document is based on data considered to be accurate as of the preparation date of this Safety Data Sheet (SDS) and was prepared pursuant to applicable Government regulation(s). This SDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as to the accuracy or comprehensiveness of the above data and safety information, nor is any authorization given or implied to practice any patented invention without a license. Additional information may be needed to evaluate other uses of the product, including use of the product in combination with any materials or in any processes other than those specifically referenced. Information provided about any hazards that may be associated with the product is not meant to suggest that use of the product in a given application will necessarily result in any exposure or risk to workers or the general public. Purchasers and users of the product are responsible for determining that this product is suitable for the intended use and application. No responsibility can be assumed by vendor for any damage or injury resulting from failure to adhere to recommended uses, or from any hazards inherent to the product. Purchasers and users assume all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Purchasers and users of the product should explicitly advise their employees, agents, contractors and customers who will use the product of this SDS.

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