

# SAFETY DATA SHEET

# 1. Identification

Product identifier WOLF TRAX® 62% ZINC DDP®

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.

**Health hazards** Acute toxicity, oral Category 4

Serious eye damage/eye irritation Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Harmful if swallowed. Causes serious eye damage.

**Precautionary statement** 

**Prevention** Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid

release to the environment. Wear eye protection/face protection.

Response If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. 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/doctor. Collect spillage.

**Storage** Store away from incompatible materials.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Zinc oxide	1314-13-2	60 - 100
Zinc Sulfate Monohydrate	7446-19-7	10 - 30

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Chemical name	CAS number	%
Sulfonated aromatic polymer	Trade Secret	1 - 5
Non-Hazardous Components	Mixture	< 5
Synthetic Iron Oxide	1309-37-1	< 0.5

## 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

Move to fresh air. Call a physician if symptoms develop or persist. Inhalation Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove Eve contact

contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and delayed

Ingestion

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.

Indication of immediate medical attention and special treatment needed

**General information** 

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

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

# 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.

Fire fighting equipment/instructions Move containers from fire area if you can do so without risk.

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

General fire hazards 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. 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 the generation of dusts during clean-up. 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.

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# 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 get this material in contact with eyes. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. 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

### Occ

Components	for Air Contaminants (29 CFR 1910.1000) Type	Value	Form
Synthetic Iron Oxide (CAS 1309-37-1)	PEL	10 mg/m3	Fume.
Zinc oxide (CAS 1314-13-2)	PEL	5 mg/m3	Fume.
		5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFF	•		
Components	Туре	Value	Form
Synthetic Iron Oxide (CAS 1309-37-1)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Limit	Values		
Components	Туре	Value	Form
Synthetic Iron Oxide (CAS 1309-37-1)	TWA	5 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	Chemical Hazards		
Components	Туре	Value	Form
Synthetic Iron Oxide (CAS 1309-37-1)	TWA	5 mg/m3	Dust and fume.
Zinc oxide (CAS 1314-13-2)	Ceiling	15 mg/m3	Dust.
	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Fume.
		5 mg/m3	Dust.
ogical limit values	No biological exposure limits noted for the	ingredient(s).	
propriate engineering trols	Good general ventilation should be used. applicable, use process enclosures, local maintain airborne levels below recommend established, maintain airborne levels to an sufficient to maintain concentrations of dus (OEL), suitable respiratory protection must operation which may generate dusts, use a below the recommended exposure limits.	exhaust ventilation, or oth ded exposure limits. If exp acceptable level. If engir st particulates below the 0 t be worn. If material is gr appropriate local exhaust	ner engineering controls to bosure limits have not beer neering measures are not Occupational Exposure Lim ound, cut, or used in any

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Skin protection

Other Wear suitable protective clothing.

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exceeding the exposure limits.

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

General hygiene considerations

Keep away from food and drink. 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 stateSolid.FormPowder.ColorRed

Odor Not available.
Odor threshold Not available.

**pH** 6 - 7

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

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)

Solubility (water) Not available.

Partition coefficient Not available.
(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

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.

Chemical stability Material is stable under normal conditions.

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.

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# 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** Harmful if swallowed.

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 Harmful if swallowed.

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

Serious eye damage/eye

Causes serious eye damage.

irritation

## 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

Synthetic Iron Oxide (CAS 1309-37-1) 3 Not classifiable as to carcinogenicity to humans.

**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

Not classified.

**Aspiration hazard** Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

# 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 Monohydi	rate (CAS 7446-19-	7)		
Aquatic				
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	0.06 mg/l, 48 hours	
Fish	LC50	Hirame, flounder (Paralichthys olivaceus)	< 10 mg/l, 96 hours	

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

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No data available.

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## 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.

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# 14. Transport information

DOT

UN3077 **UN** number

**UN proper shipping name** Transport hazard class(es) Environmentally hazardous substances, solid, n.o.s. (Zinc oxide)

9 Class Subsidiary risk 9 Label(s)

**Packing group** 

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

155 **Packaging exceptions** Packaging non bulk 213 Packaging bulk 240

IATA

**UN** number UN3077

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

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

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

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

**IMDG** 

**UN** number

**UN proper shipping name** 

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

Transport hazard class(es) **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

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

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Standard, 29 CFR 1910.1200.

Not applicable.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

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

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard Acute toxicity (any route of exposure) categories Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Zinc oxide	1314-13-2	60 - 100	
Zinc Sulfate Monohydrate	7446-19-7	10 - 30	

## Other federal regulations

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

Not regulated.

## 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**

Synthetic Iron Oxide (CAS 1309-37-1)

Zinc oxide (CAS 1314-13-2)

Zinc Sulfate Monohydrate (CAS 7446-19-7)

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

Synthetic Iron Oxide (CAS 1309-37-1)

Zinc oxide (CAS 1314-13-2)

Zinc Sulfate Monohydrate (CAS 7446-19-7)

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

Synthetic Iron Oxide (CAS 1309-37-1)

Zinc oxide (CAS 1314-13-2)

Zinc Sulfate Monohydrate (CAS 7446-19-7)

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

Synthetic Iron Oxide (CAS 1309-37-1)

Zinc oxide (CAS 1314-13-2)

### **California Proposition 65**



WARNING: This product can expose you to Naphthalene, which is known to the State of California to cause

cancer. For more information go to www.P65Warnings.ca.gov.

### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Naphthalene (CAS 91-20-3) Listed: April 19, 2002

# **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).

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

Issue date 01-June-2021

Revision date - Version # 01

HMIS® ratings Health: 3

Flammability: 1 Physical hazard: 0

NFPA ratings



**Disclaimer** 

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