SAFETY DATA SHEET



1. Identification

Product identifier MAXSET MZ

Other means of identification None.

Recommended use Ag Product - Plant Nutrition

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Wilbur-Ellis Company LLC
Address 16300 Christensen Rd. Ste 135

Tukwila, WA 98188

United States

Telephone Branded Products (800) 500-1698

Information

E-mail SDS@wilburellis.com

Emergency phone number Chemtrec - Domestic (800) 424-9300

Chemtrec - International +1 703-741-5970

Supplier Not available.

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 5

Serious eye damage/eye irritation Category 2A

Environmental hazards Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement May be harmful if swallowed. Causes serious eye irritation. Harmful to aquatic life. Harmful to

aquatic life with long lasting effects.

Precautionary statement

Prevention Wash thoroughly after handling. Avoid release to the environment. Wear eye protection/face

protection.

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

easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If eye irritation persists:

Get medical advice/attention.

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	Common name and synonyms	CAS number	%
Phosphorous Acid		13598-36-2	35
Zinc Oxide		1314-13-2	5.3
Manganous Oxide		1344-43-0	4.7
Proprietary		Proprietary	Proprietary
0			

Other components below reportable levels

52.75

Composition comments

Occupational Exposure Limits for impurities, if present, are listed in Section 8.

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 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 if irritation develops and persists.

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

Ingestion

symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

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

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

Special protective equipment

and precautions for firefighters

During fire, gases hazardous to health may be formed.

Move containers from fire area if you can do so without risk.

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

Fire fighting

equipment/instructions

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

Specific methods 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. 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

Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). 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.

7. Handling and storage

Precautions for safe handling

Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. 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 away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Туре	Value	Form
Manganous Oxide (CAS 1344-43-0)	Ceiling	5 mg/m3	
Proprietary	PEL	6 mg/m3	
		3 ppm	
Zinc Oxide (CAS 1314-13-2)	PEL	5 mg/m3	Respirable fraction.
		5 mg/m3	Fume.
		15 mg/m3	Total dust.
US. ACGIH Threshold Lim	it Values		
Components	Туре	Value	Form
Manganous Oxide (CAS 1344-43-0)	TWA	0.1 mg/m3	Inhalable fraction.
		0.02 mg/m3	Respirable fraction.
Proprietary	STEL	6 ppm	
	TWA	3 ppm	
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
Manganous Oxide (CAS 1344-43-0)	STEL	3 mg/m3	Fume.
	TWA	1 mg/m3	Fume.
Proprietary	STEL	15 mg/m3	
		6 ppm	
	TWA	8 mg/m3	
		3 ppm	
Zinc Oxide (CAS 1314-13-2)	Ceiling	15 mg/m3	Dust.
	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Dust.
		5 mg/m3	Fume.
logical limit values	No biological exposure limits noted for the ir	ngredient(s).	
propriate engineering trols	Good general ventilation should be used. Ve applicable, use process enclosures, local exmaintain airborne levels below recommende established, maintain airborne levels to an a	entilation rates should be haust ventilation, or othed exposure limits. If exp	er engineering controls to osure limits have not bee

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Face shield is recommended.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

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 Pink Liquid.
Physical state Liquid.
Form Liquid.
Color Pink.
Odor Odorless.
Odor threshold Not available.
pH Not available.

Initial boiling point and boiling

Melting point/freezing point

range

Not available. 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)

Solubility (water)SolubleAuto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Density 11.20 lb/gal typical
Explosive properties Not explosive.
Oxidizing properties Not oxidizing.
Specific gravity 1.34 typical

10. Stability and reactivity

ReactivityThe 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 Avoid temperatures exceeding the decomposition temperature. Contact with incompatible

materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

Eye contact Causes serious eye irritation.

Ingestion May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

Information on toxicological effects

Acute toxicity May be harmful if swallowed.

Acute Dermal Liquid LD50 Rabbit > 2000 mg/kg, 24 hours Oral Liquid Tobso Rat > 5000 mg/kg LD50 Rat > 5000 mg/kg Manganous Oxide (CAS 1344-43-0) Results Acute Oral Tobso Rat > 2000 mg/kg LD50 Rat 1580 mg/kg Phosphorous Acid (CAS 13598-36-2) Rat 1580 mg/kg Proprietary Acute Tobso Rat 1580 mg/kg Dermal LD50 Rabbit 2881 mg/kg, 24 Hours Inhalation Vapor LC50 Rat > 1.3 mg/l, 6 Hours Oral LD50 Rat 1515 mg/kg Zinc Oxide (CAS 1314-13-2) Acute Dermal LD50 Rat > 2000 mg/kg, 24 Hours Inhalation Inhalation Propriets LD50 Rat > 2000 mg/kg, 24 Hours Inhalation Propriets Propriets LD50 Rat > 2000 mg/kg, 24 Hours Inhalation <t< th=""><th>Product</th><th>Species</th><th>Test Results</th></t<>	Product	Species	Test Results
Dermal Liquiria Liquiria	MAXSET MZ		
Liquid Liquid > 2000 mg/kg, 24 hours Oral Liquid Door Mykg Liquid > 5000 mg/kg Liquid > 5000 mg/kg Lipso Rat > 5000 mg/kg Manganous Oxide (CAS 1344-43-0) Species Test Results Manganous Oxide (CAS 1344-43-0) Rat > 2000 mg/kg Lipso Rat > 2000 mg/kg Prosphorous Acid (CAS 13598-36-2) Species Species Acute Oral Demal Species Lipso Rat 1580 mg/kg 154 Hours Lipso Rat 2881 mg/kg, 24 Hours 164 Hours Lipso Rat 1515 mg/kg 1515 mg/kg Zinc Oxide (CAS 1314-13-2) Rate 2000 mg/kg, 24 Hours Dermal Lipso Rate 2500 mg/kg, 24 Hours Inhalation Propertion Propertion Propertion Lipso Rate Propertion Propertion Propertion Lipso Rate Propertion Propertion Propertion <td><u>Acute</u></td> <td></td> <td></td>	<u>Acute</u>		
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Inhalation LC50 Mouse > 5.7 mg/l, 4 Hours 2500 mg/m3	Dermal		
LC50 Mouse > 5.7 mg/l, 4 Hours 2500 mg/m3	LD50	Rat	> 2000 mg/kg, 24 Hours
2500 mg/m3	Inhalation		
	LC50	Mouse	> 5.7 mg/l, 4 Hours
			2500 mg/m3
		Rat	> 5700 mg/m3, 4 Hours

Components Species Test Results

Oral

LD50 Rat > 15000 mg/kg

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

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

Germ cell mutagenicityNo 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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicityThis 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. May be harmful if absorbed through skin.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

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

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Proprietary -1.31

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

material under controlled conditions in an approved incinerator. 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.

Material name: MAXSET MZ sps us

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Not established.

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

Standard, 29 CFR 1910.1200. All components are listed on or exempted from the U.S. EPA TSCA

Inventory List.

Toxic Substances Control Act (TSCA)

All components of the mixture on the TSCA 8(b) inventory are designated

"active".

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Manganous Oxide (CAS 1344-43-0) 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.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard categories

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

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
MANGANESE COMPOUNDS	1344-43-0	4.7	
ZINC COMPOUNDS	1314-13-2	5.3	

Other federal regulations

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

Manganous Oxide (CAS 1344-43-0)

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

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

US state regulations

California Proposition 65



WARNING: This product can expose you to cadmium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go

to www.P65Warnings.ca.gov.

Cadmium (CAS 7440-43-9)

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

Issue date 02-23-2016 **Revision date** 03-16-2023

Version # 04

NFPA ratings

Health: 2 Flammability: 0 Instability: 0

NFPA ratings



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