

Safety Data Sheet

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

Initial Preparation Date: 06.29.2026

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BRANDT EnzUp SeedFlow Corn

SECTION 1: Identification

Product Identifier

Product Name: BRANDT EnzUp SeedFlow Corn

Product code: 60019BPS

Recommended Use of the Chemical and Restrictions on Use:

Recommended Uses: Planter Box-Seed Treatment

Restrictions on Use: Refer to product label

Manufacturer or Supplier Details

Manufacturer:

United States

BRANDT Planting Solutions, LLC.
2935 South Koke Mill Road
Springfield, IL 62711
800-300-6559
msds@Brandt.co
www.brandt.co

Emergency Telephone Number:

WORLD (Including UK and Germany)

CHEMTREC

1-800-424-9300 (24 HOURS)

Virgin Islands 1-800-424-9300 (24 HOURS)

International Maritime +1 (703) 527-3887 (24 HOURS)

SECTION 2: Hazard Identification

Classification of the chemical in accordance with paragraph (d) of § 1910.1200:

Acute toxicity (inhalation), category 4

Eye Irritation, category 2

Carcinogenicity, category 2

Specific target organ toxicity - single exposure, category 3, respiratory tract irritation

Chronic aquatic hazard, category 3

Label elements

Hazard Symbol(s):



Signal Word: Warning

Hazard statement(s):

H332 Harmful if inhaled

H319 Causes serious eye irritation

H351 Suspected of causing cancer (describe route of exposure if it is conclusively proven that no other route of exposure causes damage)

H335 May cause respiratory irritation

H412 Harmful to aquatic life with long lasting effects

Precautionary Statement(s):

P264 Wash hands thoroughly after handling.

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P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P308+P313 If exposed or concerned: Get medical advice/attention.
P312 If you feel unwell, contact a POISON INFORMATION CENTER.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P405 Store locked up.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents and container in accordance with local, regional, national, and international regulations.

Hazards Not Otherwise Classified: None

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 1314-13-2	Zinc oxide	10-20
CAS Number: 1313-27-5	Molybdenum trioxide	3-5
CAS Number: 1344-43-0	Manganese oxide	1-3
CAS Number: 1309-37-1	Diiron trioxide	1-3

Additional information: No additional information

SECTION 4: First Aid Measures

Description of Necessary Measures

General Notes:

Show this Safety Data Sheet to the doctor in attendance
Show this Safety Data Sheet to the doctor in attendance. Take precautions to ensure your own safety before attempting rescue. Wear appropriate safety eyewear, gloves, protective clothing and respiratory protection to prevent exposure. See Section 8 of this SDS for personal protective equipment recommendations. Do not use the mouth to mouth method if victim has ingested or inhaled the product. Give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper device

After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. If respiratory symptoms develop or persist, seek medical advice/attention
If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention
If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention

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After Skin Contact:

Wash affected area with plenty of soap and water. Remove contaminated clothing and laundry before reuse. If skin irritation develops or persists, seek medical advice/attention

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention

After Eye Contact:

Immediately rinse eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. If eye irritation develops or persists, seek medical advice/attention

Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention

After Ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center.

Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention

Most Important Symptoms and Effects, Both Acute and Delayed

Acute Symptoms and Effects:

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing

Acute inhalation exposure may lead to dizziness, drowsiness, headache, breathing difficulties, nausea, vomiting, abdominal pain, and lowering of consciousness. Adverse effects are dependent on exposure (dose, concentration, contact time)

Inhalation may have adverse effects on the respiratory tract. Symptoms may include cough, breathing difficulties, sore throat and inflammation of the mucous membrane lining the respiratory tract

Delayed Symptoms and Effects:

Effects are dependent on exposure (dose, concentration, contact time)

Suspected of causing cancer. Effects are dependent on exposure (dose, concentration, contact time)

Symptoms of exposure may be delayed

Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

Immediate Medical Attention:

If respiratory symptoms persist, seek medical attention

Special Treatment:

No additional information.

Notes for the Doctor:

Treat symptomatically

SECTION 5: Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam

Unsuitable Extinguishing Media:

Do not use water jet

Specific Hazards Arising From The Chemical:

Thermal decomposition may produce irritating/toxic fumes/gases

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Special Protective Equipment and Precautions for Fire-Fighters

Special Protective Equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA)

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode

Special precautions

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Do not get on skin, eyes or on clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided

Methods and Material for Containment and Cleaning Up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13)

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Avoid breathing dust, mist, fumes, vapors or spray. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13)

Harmful if inhaled. Put on appropriate personal protective equipment, including a self-contained breathing apparatus (see Section 8) before entering area of spill or leak. Avoid breathing dust, mist, fumes, vapors or spray. Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13)

SECTION 7: Handling and Storage

Precautions for Safe Handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

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Store in secured area away from children, feed, and other food products. Store in original container.
Store in a well-ventilated area. Storage temperature: 40 F to 100 F.

SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

Occupational Exposure Limit Values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
OSHA	Molybdenum trioxide	1313-27-5	8-Hour TWA-PEL: 15 mg/m ³ (dust and insoluble compounds, as Mo - total dust -)
	Manganese oxide	1344-43-0	Ceiling Limit: 5 mg/m ³ (Manganese compounds & fume, as Mn)
	Diiron trioxide	1309-37-1	8-Hour TWA-PEL: 10 mg/m ³ (fume)
	Diiron trioxide	1309-37-1	8-Hour TWA-PEL: 15 mg/m ³ (total dust)
	Diiron trioxide	1309-37-1	8-Hour TWA-PEL: 5 mg/m ³ (respirable fraction)
NIOSH	Molybdenum trioxide	1313-27-5	IDLH: 5000 mg/m ³ (dust and insoluble compounds, as Mo)
	Manganese oxide	1344-43-0	REL-TWA: 1 mg/m ³ (Manganese compounds & fume, as Mn - up to 10 hr.)
	Manganese oxide	1344-43-0	15-Minute STEL: 3 mg/m ³ (Manganese compounds & fume, as Mn)
	Manganese oxide	1344-43-0	IDLH: 500 mg/m ³ (Manganese compounds & fume, as Mn)
	Diiron trioxide	1309-37-1	REL-TWA: 5 mg/m ³ (up to 10 hrs. [dust and fume, as Fe])
	Diiron trioxide	1309-37-1	IDLH: 2500 mg/m ³ (fume)
ACGIH	Molybdenum trioxide	1313-27-5	8-Hour TWA: 10 mg/m ³ (dust and insoluble compounds, as Mo - inhalable particulate matter)
	Molybdenum trioxide	1313-27-5	8-Hour TWA: 3 mg/m ³ (dust and insoluble compounds, as Mo - respirable particulate matter)
	Manganese oxide	1344-43-0	8-Hour TWA: 0.1 mg/m ³ (Manganese compounds & fume, as Mn - inhalable particulate matter)
	Manganese oxide	1344-43-0	8-Hour TWA: 0.02 mg/m ³ (Manganese compounds & fume, as Mn - respirable particulate matter)
	Diiron trioxide	1309-37-1	8-Hour TWA: 5 mg/m ³ (respirable particulate matter)
United States(California)	Molybdenum trioxide	1313-27-5	8-Hour TWA-PEL: 10 mg/m ³ (dust and insoluble compounds, as Mo - total dust)
	Molybdenum trioxide	1313-27-5	8-Hour TWA-PEL: 3 mg/m ³ (dust and insoluble compounds, as Mo - respirable)
	Manganese oxide	1344-43-0	8-Hour TWA-PEL: 0.2 mg/m ³ (Manganese compounds & fume, as Mn)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Manganese oxide	1344-43-0	15-Minute STEL: 3 mg/m ³ (Manganese compounds & fume, as Mn)
	Manganese oxide	1344-43-0	REL: 0.17 ug/m ³ (8 hr Inhalation [Manganese compounds])
	Manganese oxide	1344-43-0	REL: 0.09 ug/m ³ (Chronic inhalation [Manganese compounds])
	Diiron trioxide	1309-37-1	8-Hour TWA-PEL: 5 mg/m ³ (fume)
	Diiron trioxide	1309-37-1	8-Hour TWA-PEL: 10 mg/m ³ (Particulates not otherwise regulated, total dust)
	Diiron trioxide	1309-37-1	8-Hour TWA-PEL: 5 mg/m ³ (Particulates not otherwise regulated, respirable fraction)

Biological Limit Values:

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

Information on Monitoring Procedures:

Not determined or not applicable.

Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Individual Protection Measures, Such as Personal Protective Equipment

Eye and Face Protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and Chemical Properties

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Information on Basic Physical and Chemical Properties

Physical state	Not determined or not available.
Color	Not determined or not available.
Odor (includes odor threshold)	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flammability	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Flash point	Not determined or not available.
Auto-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
pH	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Vapor pressure (includes evaporation rate)	Not determined or not available.
Density and/or relative density	Not determined or not available.
Relative vapor density	Not determined or not available.
Particle characteristics	Not determined or not available.

Other Information

No additional information.

SECTION 10: Stability and Reactivity

Reactivity:

Not reactive under recommended handling and storage conditions.

Chemical Stability:

Stable under recommended handling and storage conditions.

Possibility of hazardous reactions, including those associated with foreseeable emergencies:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to Avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.
Avoid confined spaces, extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

Incompatible Materials:

None known.

Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Acute Toxicity

Assessment:

Harmful if inhaled.

Product Data: No data available.

Substance Data:

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Name	Route	Result
Molybdenum trioxide	oral	LD50 Rat: 2689 mg/kg
	dermal	LD50 Rat: >2000 mg/kg
	inhalation	LC50 Rat: 5840 mg/m ³ (4 hr [dust])
Zinc oxide	oral	LD50 Rat: >2000 mg/kg
	dermal	LD50 Rat: >2000 mg/kg
	inhalation	LC50 Rat: >5040 mg/m ³ (4 hr [dust])
Manganese oxide	oral	LD50 Rat: > 2000 mg/kg
	inhalation	LC50 Rat: > 5.35 mg/L (4 hr [Dust/mist])
Diiron trioxide	oral	LD50 Rat: > 5000 mg/kg
	inhalation	LC50 Rat: 5.05 mg/L (4 hr [Aerosol])

Skin Corrosion/Irritation

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Serious Eye Damage/Irritation

Assessment:

Causes serious eye irritation.

Product Data:

No data available.

Substance Data:

Name	Result
Molybdenum trioxide	Causes serious eye irritation.

Respiratory or Skin Sensitization

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Carcinogenicity

Assessment:

Suspected of causing cancer.

Product Data: No data available.

Substance Data:

Name	Species	Result
Molybdenum trioxide	Not Applicable	Suspected of causing cancer.

International Agency for Research on Cancer (IARC):

Name	Classification
Molybdenum trioxide	Group 2B
Zinc oxide	Not Applicable
Manganese oxide	Not Applicable
Diiron trioxide	Group 3

National Toxicology Program (NTP):

Name	Classification
Molybdenum trioxide	Not Applicable

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Name	Classification
Zinc oxide	Not Applicable
Manganese oxide	Not Applicable
Diiron trioxide	Not Applicable

OSHA Carcinogens: Not applicable

Germ Cell Mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Reproductive Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Specific Target Organ Toxicity (Single Exposure)

Assessment:

May cause respiratory irritation.

Product Data:

No data available.

Substance Data:

Name	Result
Molybdenum trioxide	May cause respiratory irritation.

Specific Target Organ Toxicity (Repeated Exposure)

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Information on Likely Routes of Exposure:

No data available.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

Interactive effects:

No additional information.

Other Information:

No additional information.

SECTION 12: Ecological Information

Ecotoxicity

Acute (Short-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

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Name	Result
Molybdenum trioxide	Fish LC50 Pimephales promelas: 577 mg/L (96 hr [mortality])
	Aquatic Invertebrates EC50 Daphnia magna: 150 mg/L (48 hr [mortality])
	Aquatic Plants EC50 Phaeodactylum tricornutum: 356.9 mg/L (72 hr [growth rate])
Zinc oxide	Fish LC50 Danio rerio: >0.25 mg/L (96 hr [maximum concentration])
	Aquatic Invertebrates EC50 Daphnia magna: 0.029 mg/L (48 hr [mobility, maximum concentration])
	Aquatic Plants EC50 Desmodemus subspicatus: 0.013 mg/L (72 hr [growth rate, maximum concentration])
Manganese oxide	Fish LC50 Oncorhynchus mykiss: > 1.2 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: > 4 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Desmodemus subspicatus: > 1.3 mg/L (72 hr)
Diiron trioxide	Aquatic Invertebrates EC50 Daphnia magna: >100 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Raphidocelis subcapitata: >= 20 mg/L (72 hr [growth rate])
	Fish LC50 Danio rerio: >= 10,000 mg/L (96 hr)

Chronic (Long-Term) Toxicity

Assessment:

Harmful to aquatic life with long lasting effects.

Product Data: No data available.

Substance Data:

Name	Result
Molybdenum trioxide	Aquatic Plants NOEC Phaeodactylum tricornutum: 150 mg/L (72 hr [growth rate])
	Fish NOEC Pimephales promelas: 462.8 mg/L (32 d [mortality])
	Aquatic Invertebrates NOEC Ceriodaphnia dubia: 156.5 mg/L (21 d [mortality])
Manganese oxide	Aquatic Invertebrates NOEC Ceriodaphnia dubia: 1.3 mg/L (8 d [mortality])
Diiron trioxide	Aquatic Invertebrates NOEC Daphnia magna: >= 20 mg/L (21 d [reproduction])

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
Molybdenum trioxide	Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.
Zinc oxide	Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.
Manganese oxide	Persistence assessment based on biodegradability is not relevant for metals and its inorganic compounds such as this substance.
Diiron trioxide	Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

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Name	Result
Molybdenum trioxide	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance.
Zinc oxide	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance.
Manganese oxide	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for essential elements/metals such as this substance.
Diiron trioxide	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance.

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Molybdenum trioxide	Mobility in soil assessment not applicable for inorganic compounds such as this substance.
Zinc oxide	Mobility in soil assessment based on KOC/Kd values are not relevant for inorganic compounds such as this substance.
Manganese oxide	Mobility in soil assessment based on KOC/Kd values are not relevant for metals and its inorganic compounds such as this substance.
Diiron trioxide	Mobility in soil assessment not applicable for inorganic compounds such as this substance.

Results of PBT and vPvB assessment

Product Data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance Data:

PBT assessment:

Molybdenum trioxide	PBT assessment does not apply to inorganic compounds such as this substance.
Zinc oxide	PBT assessment does not apply to inorganic compounds such as this substance.
Manganese oxide	The PBT criteria does not apply for metals and its inorganic compounds such as this substance.
Diiron trioxide	PBT assessment does not apply to inorganic compounds such as this substance.

vPvB assessment:

Molybdenum trioxide	vPvB assessment does not apply to inorganic compounds such as this substance.
Zinc oxide	vPvB assessment does not apply to inorganic compounds such as this substance.
Manganese oxide	The vPvB criteria does not apply for metals and its inorganic compounds such as this substance.
Diiron trioxide	vPvB assessment does not apply to inorganic compounds such as this substance.

Other Adverse Effects: No additional information.

SECTION 13: Disposal Considerations

Disposal Methods:

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It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

Contaminated packaging:

Not determined or not applicable.

SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

International Maritime Dangerous Goods (IMDG)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk Name	Not Applicable
Ship Type	Not Applicable
Pollution Category	Not Applicable

SECTION 15: Regulatory Information

United States Regulations

Inventory Listing (TSCA): All ingredients are listed-active or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export Notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 Extremely Hazardous Substances: None of the ingredients are listed.

SARA Section 313 Toxic Chemicals:

1313-27-5	Molybdenum trioxide	Listed
1314-13-2	Zinc oxide	Listed

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1344-43-0	Manganese oxide	Listed
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CERCLA:

1314-13-2	Zinc oxide	Listed	
1344-43-0	Manganese oxide	Listed	N/A

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

1313-27-5	Molybdenum trioxide	Listed
1309-37-1	Diiron trioxide	Listed

New Jersey Right to Know:

1313-27-5	Molybdenum trioxide	Listed
1314-13-2	Zinc oxide	Listed
1344-43-0	Manganese oxide	Listed
1309-37-1	Diiron trioxide	Listed

New York Right to Know:

1314-13-2	Zinc oxide	Listed
1344-43-0	Manganese oxide	Listed
1309-37-1	Diiron trioxide	Listed

Pennsylvania Right to Know:

1313-27-5	Molybdenum trioxide	Listed
1314-13-2	Zinc oxide	Listed
1344-43-0	Manganese oxide	Listed
1309-37-1	Diiron trioxide	Listed

California Proposition 65:

 **WARNING:** This product can expose you to Molybdenum trioxide; which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Additional information: No additional information.

SECTION 16: Other Information

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of Manufacturer's knowledge, information and belief at the date of its publication; however, it is provided only as a guidance for safe handling, use, processing, storage, transportation, disposal and release of the Product. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made with respect to the Product or the information provided herein, or that the Product or information herein may be used without infringing the intellectual property rights of others. The information provided in this Safety Data Sheet relates only to the specific Product designated and may not be valid if the Product is used in combination with other materials or in any other process, unless specified herein. The user assumes all risk and liability for loss, injury, damage or expense due to any use, handling, storage or disposal of the Product, and Manufacturer recommends that the user conducts its own tests of the Product to determine suitability of the Product for user's particular use. The information provided in this Safety Data Sheet is correct to the best of Manufacturer's knowledge, information and belief at the date of its publication; however, it is provided only as a guidance for safe handling, use, processing, storage, transportation, disposal and release of the Product. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made with respect to the Product or the information provided herein, or that the Product or information herein may be used without infringing the intellectual property rights of others. The information provided in this Safety Data Sheet relates only to the specific Product designated and may

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not be valid if the Product is used in combination with other materials or in any other process, unless specified herein. The user assumes all risk and liability for loss, injury, damage or expense due to any use, handling, storage or disposal of the Product, and Manufacturer recommends that the user conducts its own tests of the Product to determine suitability of the Product for user's particular use.

NFPA: 0-0-0

HMIS: 0-0-0

Initial Preparation Date: 06.29.2026

End of Safety Data Sheet