

## SAFETY DATA SHEET

This SDS complies with REACH 1907/2006 and 2001/58/EC, GHS REVISION 5, OSHA 29CFR 1910.1200

# **Section 1: Chemical Product and Company Identification**

MANUFACTURER'S NAME **EMERGENCY TELEPHONE** 

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SeedStart Zinc PRODUCT NAME: FORMULA: Preparation/Mixture

PRODUCT USE: For seed treatment applications.

### Section 2: Hazards Identification

**GHS Hazard Class** Hazardous to the Aquatic Environment—Short Term (Acute) Hazard -- Category 1

Hazardous to the Aquatic Environment—Long Term (Chronic Hazard)--Category 1

Signal word: Warning Hazard Statement:

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects Precautionary Statements: Prevention P273: Avoid release to the environment

P391: Collect spillage Response

Storage No Precautionary statement

P501: Dispose of contents/container in accordance with the waste disposal requirements of your Disposal

country, state, or local authorities.

Hazards not otherwise classified (HNOC) or not covered by GHS - None

HAZARD CLASSIFICATION: Not classified as hazardous based on IATA, IMDG, and DOT.

Not considered flammable or combustible. Product emits toxic fumes when burned. FIRE AND EXPLOSION:

POTENTIAL HEALTH EFFECTS: <1 % of mixture consists of ingredients of unknown acute toxicity

APPEARANCE: White suspension

NFPA Rating:

Component	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
SeedStart Zinc	1	0	0	

# **Section 3: Composition, Information on Ingredients**

PRODUCT COMPOSITION	APPROX %	CAS NO.	EC NUMBER	CANADA DSL
Zinc Oxide	< 80	1314-13-2	215-222-5	Y
Water	< 20	7732-18-5	231-791-2	Y

Some items on this SDS may be designated as trade secrets (TS). Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13.

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### **Section 4: First Aid Measures**

#### **Description of First Aid Measures**

Inhalation Remove to fresh air. If not breathing, provide CPR (cardio pulmonary

resuscitation). Get immediate medical attention.

Skin Contact Immediately wash skin with plenty of soap and water for at least 15 minutes.

Remove contaminated clothing. Get medical attention if irritation develops or

persists.

Eye Contact Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate

medical attention.

Ingestion Do NOT induce vomiting. Rinse mouth thoroughly with water. Give ½ to one

glass of water to dilute the material if victim is alert and not convulsing. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits, rinse mouth and administer more water. Never give anything to an unconscious person. Get immediate medical attention.

#### Most important symptoms and effects, both acute and delayed

Symptoms/Injuries after Inhalation May cause respiratory tract irritation.

Symptoms/Injuries after Skin Contact May cause mild skin irritation. Symptoms may include redness, drying, defatting, and

cracking of the skin.

Symptoms/Injuries after Eye Contact Causes mild eye irritation. Symptoms may include discomfort or pain, excess

blinking and tear production, with possible redness and swelling.

Symptoms/Injuries after Ingestion Mildly harmful if swallowed.

#### Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately.

## **Section 5: Fire-fighting Measures**

Suitable extinguishing media

Special hazards arising from the substance or mixture Protective actions fire-fighters

**Further information** 

Use foam, dry chemical, carbon dioxide, or any media suitable to extinguish the surrounding fire

Containers could explode when heated above 225°F (107°). Wear standard protective equipment and self contained breathing apparatus for firefighting if necessary.

Hazardous decomposition products formed under fire conditions. -

Zinc/zinc oxides.

### Section 6: Accidental Release Measures

#### Personal precautions, protective equipment, and emergency procedures

Wear proper personal protective equipment. Avoid breathing fumes.

#### **Environmental precautions**

Prevent further spillage if safe to do so. Prevent spills or contaminated rinse water from entering sewers or watercourses.

#### Methods and materials for containment and cleaning up

In case of small spills, absorb with sand or other non-combustible absorbent material and put spilled material in a plastic container. Dispose of according to the requirements of your country, state, or local authorities.

In case of large spills, dike far ahead of liquid spills. Absorb with inert material and put into a plastic container. Dispose of according to the requirements of your country, state, or local authorities.

Reference to other Sections For personal protection reference section 8. For disposal reference section 13.

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### Section 7: Handling and Storage

#### Precautions for safe handling

Use only with adequate ventilation.

Keep out of reach of children.

Wear proper protective equipment when handling this material.

Avoid contact with skin, eyes, or clothing.

Wash hands and face after handling this material.

A plastic container should be used for disposal.

For precautions see section 2.

#### Conditions for safe storage, including any incompatibilities

Store upright in a cool, dry place.

Keep container closed when not in use.

Keep away from heat, in excess of 225°F (107°).

Do not store with acid, metallic oxide, amines, and combustible materials.

Utilize chemical segregation.

Follow all applicable local regulations for handling and storage.

### Specific uses

This product is intended to be used for seed treatments applications.

# **Section 8: Exposure Controls/Personal Protection**

#### **Control Parameters**

PRODUCT	ACGIH	OSHA	NIOSH
COMPOSITION	TLV	PEL	REL
Zinc Oxide	TWA 2.0 mg/m <sup>3</sup> STEL 10.0 mg/m <sup>3</sup>	TWA 5 mg/m³ (fume) TWA 15 mg/m³ (total dust) TWA 5 mg/m³ (resp dust)	Dust: TWA 5 mg/m <sup>3</sup> C 15 mg/m3 Fume: TWA 5 mg/m <sup>3</sup> ST 10 mg/m <sup>3</sup>

#### **Exposure controls**

VENTILATION: Always provide good general, mechanical room ventilation where this

chemical/material is used.

SPECIAL VENTILATION CONTROLS:

RESPIRATORY PROTECTION: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or the CEN

European Standards (EU). Use a NIOSH/MSHA or European Standard (EN) approved respirator if exposure limits are exceeded or if irritation or other

symptoms are experienced.

PROTECTIVE GLOVES:

Neoprene, butyl, or nitrile rubber gloves are recommended.

EYE PROTECTION:

Recommend eye protection using safety glasses or goggles.

SKIN PROTECTION: Suitable protective clothing to prevent skin contact

WORK/HYGIENE PRACTICES: Avoid breathing fumes. Avoid contact with eyes. Wash hands after handling. OTHER EQUIPMENT: Make safety shower, eyewash stations, and hand washing equipment available in

the work area.

## **Section 9: Physical and Chemical Properties**

	PRODUCT CRITERIA
APPEARANCE - COLOR:	White
PHYSICAL STATE:	Suspension
ODOR:	Pungent Odor
ODOR THRESHOLD	No data available
PH	No data available
MELTING POINT/FREEZING POINT:	No data available
INITIAL BOILING POINT AND BOILING RANGE:	>100°C
FLASH POINT:	No data available
EVAPORATION RATE:	No data available
FLAMMABILITY (Solid, gas)	Not flammable

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UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	Not Measured
VAPOR PRESSURE	No data available
VAPOR DENSITY (AIR = 1)	No data available
RELATIVE DENSITY (@25 °C):	1.76
SOLUBILITY(IES)	Soluble in water
OXIDIZING PROPERTIES	No data available
PARTITION COEFFICIENT: n-octanol/water	No data available
AUTO IGNITION TEMPERATURE	No data available
DECOMPOSITION TEMPERATURE	No data available
VISCOSITY	No data available

### **Section 10: Stability and Reactivity**

Reactivity: Not reactive

Chemical Stability: Stable under recommended conditions.

Possibility of Hazardous Reactions: Will not occur under normal temperatures and pressures.

Conditions to Avoid: High temperatures, high pressure, and incompatible materials.

Incompatibility (Materials to avoid): This product is compatible with the majority of agricultural remedies. However, it

is advisable to do a miscibility test prior to mixing with other chemicals. Do not mix concentrate directly with other herbicides or pesticides concentrates – always dilute first. Do not mix product with oxidizing materials or with any phosphate

containing fertilizers.

Hazardous Decomposition Products: Decomposition products include carbon dioxide, carbon monoxide, and water

which may form when heated to decomposition.

# **Section 11: Toxicological Information**

GHS Required Criteria	Toxicity Criteria	Toxicity Information	Comments	Chemical Constituent
Acute Toxicity	LD50 (Oral/Mouse)	>5000 mg/kg	No Mortality	Zinc Oxide
	LD50 (Oral/Rat)	>5000 mg/kg		Zinc Oxide
	LC50(Inhalation/Mouse):	> 5.7 mg/L, 4 hr.		Zinc Oxide
Skin Corrosion/Irritation	20 % w/v zinc oxide was found to be non-irritating to guinea-pig skin.			Zinc Oxide
Serious Eye Damage / Eye Irritation	50 μL bulk volume, 90 min exposure, 18 hr observation on human cornea tissue		Not irritating	Zinc Oxide
Respiratory or Skin Sensitization	Data not available			
Germ Cell Mutagenicity	Data not available			
Carcinogenicity	NTP	Not listed		
	IARC	Not listed		
	OSHA	Not listed		
Reproductive Toxicity	Data not available			
STOT Single Exposure	Data not available			
STOT – Repeated Exposure	Data not available			
Aspiration Hazard	Data not available			

STOT = Specific Target Organ Toxicity

# **Section 12: Ecological Information**

Chemical	Constituent
Chemicai	Constituent

		Chemical Constituent
Toxicity:	LC50 Danio rerio (Zebrafish) = 3.31 mg/L, 96hr.	Zinc Oxide
	LC50 Daphnia magna (water flea) = 1.55 mg/L, 48hr.	Zinc Oxide
Persistence and degradability:	No information is available.	
Bioaccumulative potential	No information is available.	
Mobility in soil:	No information is available.	
PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical assessment not required/not conducted	
Other adverse effects:	No information is available.	

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### **Section 13: Disposal Considerations**

Waste from residues/unused products: Follow the waste disposal requirements of your country, state, or local authorities.

Contaminated packaging: Contaminated packaging material should be disposed of as stated above for residues and unused product.

Rinsate: Do not dispose of rinse water containing product in a sanitary sewer system or stormwater drainage system.

### **Section 14: Transport Information**

DOT TRANSPORT: Not Regulated

ADR = International Carriage of Dangerous Goods by Road Not Regulated

SEA TRANSPORT: IMDG Not Regulated

AIR TRANSPORT: IATA/ICAO Not Regulated

### **Section 15: Regulatory Information**

#### TOXIC SUBSTANCE CONTROL ACT (TSCA) STATUS:

This product is in compliance with rules, regulations, and orders of TSCA. All components are either listed on the TSCA inventory or are considered exempt.

# SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all SDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: None

#### CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.

The California proposition 65 chemical(s) contained in this product are: None

#### STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:

Massachusetts's hazardous substance(s): Zinc Oxide
Pennsylvania Zinc Oxide
New Jersey Zinc Oxide

#### CANADA:

WHMIS-2015: This SDS is in compliance with WHMIS 2015 (HPR / new HPA).

#### **EUROPEAN UNION:**

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Regulation (EC) No 1272/2008 on classification, labeling, and packaging (CLP) of substances and mixtures.

### **Section 16: Other Information**

Initial issue date: August 1, 2017 Final revision date: August 1, 2017

Revision Number: 0

Revision explanation Initial version

Information Sources: RTECS, ECHA, REACH, OSHA 29CFR 1910.1200

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substance. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may also be beyond our knowledge. It is the user's responsibility to determine the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. If the product is used as a component in another product, this SDS information may not be applicable. For these reasons, we do not assume any responsibility and expressly disclaim liability for any loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product."

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