# SAFETY DATA SHEET

Revision Date 05-Oct-2021

Diamond

Version 3

# **1. IDENTIFICATION**

Product identifier Product Name

Endura-Zinc 768 3K Organic Zinc Rich Epoxy Powder (Pt C)

Other means of identification Product Code SKU(s)

LM-0236 None

Recommended use of the chemical and restrictions on useRecommended UseNo information available.Uses advised againstNo information available

Details of the supplier of the safety data sheet Manufacturer Address Diamond Vogel 1020 Albany Place SE Orange City, IA 51041 Phone: (712) 737-4993 Fax: (712) 737-4997

Emergency telephone number Emergency Telephone

Chemtrec 1-800-424-9300

### 2. HAZARDS IDENTIFICATION

#### **Classification**

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust		Yes
	Emergency Overview	
Warning		
May form combustible dust concentrations in air		
Appearance No information available	Physical state Powder	<b>Odor</b> No information available

#### Hazards not otherwise classified (HNOC) Other Information

May be harmful if swallowed

Very toxic to aquatic life with long lasting effects

Very toxic to aquatic life

· May form combustible dust concentrations in air

Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS No	Weight-%	Trade Secret	
Zinc	7440-66-6	60 - 100	*	
Zinc oxide, as Zn (fume)	1314-13-2	1 - 5	*	
*The event percentage (concentration) of composition has been withhold as a trade accent				

The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

#### Description of first aid measures

Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids Consult a physician.	
Skin Contact	Wash skin with soap and water.	
Inhalation	Remove to fresh air.	
Ingestion	Clean mouth with water and drink afterwards plenty of water.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	
5. FIRE-FIGHTING MEASURES		

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

#### Specific hazards arising from the chemical

Dusts or fumes may form explosive mixtures in air.

# Explosion data

#### Sensitivity to Mechanical Impact None.

**Sensitivity to Static Discharge** Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures		
Personal precautions	Use personal protective equipment as required.	
Environmental precautions		
Environmental precautions	See Section 12 for additional Ecological Information. Prevent further leakage or spillage if	

safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Methods and material for containment and cleaning up Prevent further leakage or spillage if safe to do so. Methods for containment Methods for cleaning up Clean contaminated surface thoroughly. Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. 7. HANDLING AND STORAGE Precautions for safe handling Advice on safe handling Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Dust at sufficient concentrations can form explosive mixtures in air. Avoid the creation or accumulation of dust when handling and keep away from all possible sources of ignition such as heat, sparks, and flame. Dust control and good housekeeping are required. Dust may carry a static charge. Make sure equipment and personnel are grounded to avoid static discharge. Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. **Storage Conditions** Incompatible materials None known based on information supplied.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Zinc oxide, as Zn (fume)	STEL: 10 mg/m <sup>3</sup> respirable	TWA: 5 mg/m <sup>3</sup> fume	IDLH: 500 mg/m <sup>3</sup>
1314-13-2	particulate matter	TWA: 15 mg/m <sup>3</sup> total dust	Ceiling: 15 mg/m <sup>3</sup> dust
	TWA: 2 mg/m <sup>3</sup> respirable	TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 5 mg/m <sup>3</sup> dust and fume
	particulate matter	(vacated) TWA: 5 mg/m <sup>3</sup> fume	STEL: 10 mg/m <sup>3</sup> fume
		(vacated) TWA: 10 mg/m <sup>3</sup> total dust	
		(vacated) TWA: 5 mg/m <sup>3</sup> respirable	
		fraction	
		(vacated) STEL: 10 mg/m <sup>3</sup> fume	

NIOSH Immediately Dangerous to Life or Health

Other Information	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).
Appropriate engineering controls	
Engineering Controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	No special technical protective measures are necessary.
Skin and body protection	No special technical protective measures are necessary.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be

required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

#### General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Appearance Color	Powder No information available No information available	Odor Odor threshold	No information available No information available
Property pH Melting point / freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density Specific Gravity Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties	ValuesNo information availableNo information available	<u>Remarks • Method</u>	
Oxidizing properties <u>Other Information</u>	No information available		
Softening point Molecular weight Liquid Density Bulk density Percent solids by weight Percent volatile by weight Percent solids by volume Actual VOC (lbs/gal) Actual VOC (grams/liter) EPA VOC (grams/liter) EPA VOC (grams/liter)	No information available No information available 58.82 lbs/gal No information available 100.0% 0.0% 100.0% 0 0 0 0		

# **10. STABILITY AND REACTIVITY**

#### Reactivity No data available

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

None under normal processing.

#### Conditions to avoid

Extremes of temperature and direct sunlight.

#### Incompatible materials

None known based on information supplied.

#### Hazardous decomposition products

None known based on information supplied.

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Product Information	No data available
Inhalation	No data available.
Eye contact	No data available.
Skin Contact	No data available.
Ingestion	No data available.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Zinc	> 2000 mg/kg (Rat)	-	-
7440-66-6			
Zinc oxide, as Zn (fume) 1314-13-2	> 5000 mg/kg (Rat)	-	-

#### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure\_

Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target organ effects	Respiratory system.
Aspiration hazard	No information available.

#### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document mg/kg

# **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
Zinc	0.11 - 0.271: 96 h	2.16 - 3.05: 96 h Pimephales	0.139 - 0.908: 48 h Daphnia magna
7440-66-6	Pseudokirchneriella subcapitata	promelas mg/L LC50 flow-through	mg/L EC50 Static
	mg/L EC50 static 0.09 - 0.125: 72 h	7.8: 96 h Cyprinus carpio mg/L	_
	Pseudokirchneriella subcapitata	LC50 static 2.66: 96 h Pimephales	

	mg/L EC50 static	promelas mg/L LC50 static 3.5: 96 h Lepomis macrochirus mg/L LC50 static 0.211 - 0.269: 96 h Pimephales promelas mg/L LC50 semi-static 30: 96 h Cyprinus carpio mg/L LC50 0.45: 96 h Cyprinus carpio mg/L LC50 semi-static 0.59: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.24: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.41: 96 h Oncorhynchus mykiss mg/L LC50	
		static	
Zinc oxide, as Zn (fume) 1314-13-2	-	1.55: 96 h Danio rerio mg/L LC50 static	-

# Persistence and degradability No information available.

#### **Bioaccumulation**

No information available.

Other adverse effects	No information available
	13. DISPOSAL CONSIDERATIONS
Waste treatment methods	
Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status
Zinc	Ignitable powder Toxic
7440-66-6	
Zinc oxide, as Zn (fume)	Toxic
1314-13-2	

# **14. TRANSPORT INFORMATION**

DOT	Not regulated
TDG	Not regulated
<u>MEX</u>	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG	Not regulated
RID	Not regulated
ADR	Not regulated

ADN	Not regulated
	15. REGULATORY INFORMATION
International Inventories	
TSCA	Complies
DSL/NDSL	Complies

Legend: TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Zinc - 7440-66-6	1.0
Zinc oxide, as Zn (fume) - 1314-13-2	1.0

#### SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc 7440-66-6	-	X	X	-
Zinc oxide, as Zn (fume) 1314-13-2	-	Х	-	-

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Zinc 1000 lb	-	RQ 454 kg final RQ
7440-66-6		RQ 1000 lb final RQ

#### US State Regulations

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65
Lead - 7439-92-1	Carcinogen
	Developmental
	Female Reproductive
	Male Reproductive
Cadmium - 7440-43-9	Carcinogen
	Developmental
	Male Reproductive

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts

Zinc	Х	Х
7440-66-6		
Zinc oxide, as Zn (fume)	Х	Х
1314-13-2		

Chemical name	Pennsylvania
Zinc	Х
7440-66-6	
Zinc oxide, as Zn (fume)	Х
1314-13-2	

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards 1	Flammability 3	Instability 0	Physical and chemical properties -
HMIS	Health hazards 1	Flammability 3	Physical hazards 0	Personal protection X

05-Oct-2021

Revision Date Revision Note

No information available

Disclaimer

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**End of Safety Data Sheet**