# SAFETY DATA SHEET



This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Revision date 10/10/2023 Revision Number 5.1

## 1. Identification

Product identifier

Product Name ZERUST® Axxanol™ Z-Maxx

Other means of identification

Product Code(s) 360-M-00001PL, 360-M-00001GG, 360-M-00001DR

UN number or ID number Not applicable.

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Corrosion inhibitor

Restrictions on use No information available

Details of the supplier of the safety data sheet

**Manufacturer Address** 

Northern Technologies International Corporation 4201 Woodland Rd Circle Pines, MN 55014 - United States 1-763-225-6600

E-mail sds@ntic.com

Emergency telephone number

Emergency Telephone Carechem +1 202 464 2554; Outside US/Canada +44 1865 407333 (24 hours; 7

days/week)

## 2. Hazard(s) identification

#### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Hazards not otherwise classified (HNOC)

Not applicable

#### **Label elements**

## Hazard statements

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance Grease Physical state Liquid Odor Petroleum

#### Other information

May be harmful in contact with skin.

## 3. Composition/information on ingredients

Pure substance/mixture Mixture

Chemical name	CAS No.	Weight-%	Trade secret
Distillates, petroleum, solvent-dewaxed heavy	64742-65-0	70 - 80%	*
paraffinic			
Calcium carbonate	471-34-1	20 - 30%	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First-aid measures

### **Description of first aid measures**

**Inhalation** Remove to fresh air.

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.

**Ingestion** Rinse mouth.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

**Effects of Exposure** No information available.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

5. Fire-fighting measures

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

No information available.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

## 7. Handling and storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Advice on safe handling

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure controls/personal protection

### Control parameters

## **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Distillates, petroleum, solvent-dewaxed	TWA: 5 mg/m³ inhalable	TWA: 5 mg/m <sup>3</sup>	IDLH: 2500 mg/m <sup>3</sup>
heavy paraffinic	particulate matter excluding	(vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
64742-65-0	metal working fluids, highly &		STEL: 10 mg/m <sup>3</sup>
	severely refined		
Calcium carbonate	-	TWA: 15 mg/m³ total dust	TWA: 10 mg/m <sup>3</sup> total dust
471-34-1		TWA: 5 mg/m <sup>3</sup> respirable	TWA: 5 mg/m³ respirable
		fraction	dust
		(vacated) TWA: 15 mg/m <sup>3</sup>	
		total dust	
		(vacated) TWA: 5 mg/m <sup>3</sup>	
		respirable fraction	

### **Appropriate engineering controls**

Showers **Engineering controls** 

> Eyewash stations Ventilation systems.

### Individual protection measures, such as personal protective equipment

Eye/face protection If splashes are likely to occur, wear safety glasses with side-shields.

Hand protection Wear suitable gloves.

Wear suitable protective clothing. Skin and body protection

No protective equipment is needed under normal use conditions. If exposure limits are Respiratory protection

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid **Appearance** Grease Color Tan Odor Petroleum **Odor threshold** No data available

Property Values Remarks • Method

No data available None known Hq pH (as aqueous solution) None known Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known 255 °C / 491 °F Flash point None known **Evaporation rate** No data available None known No data available **Flammability** None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

No data available None known Vapor pressure No data available Relative vapor density None known 0.9 g/cm3 @ 20°C Relative density None known None known Water solubility Insoluble in water Solubility(ies) No data available None known No data available Partition coefficient None known **Autoignition temperature** No data available None known **Decomposition temperature** None known Kinematic viscosity No data available

None known **Dynamic viscosity** 200-240 cSt @ 40°C None known

Other information

No data available **Explosive properties Oxidizing properties** No information available Softening point No information available Molecular weight No information available VOC content

No information available

Liquid Density

No information available

No information available

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## 10. Stability and reactivity

**Bulk density** 

**Reactivity** No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid None known based on information supplied.

**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

**Inhalation** Based on available data, the classification criteria are not met.

Eye contact Based on available data, the classification criteria are not met.

**Skin contact** Based on available data, the classification criteria are not met.

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

Symptoms related to the physical, chemical and toxicological characteristics

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

**Acute toxicity** 

**Numerical measures of toxicity** 

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

 ATEmix (oral)
 99,999.00 mg/kg

 ATEmix (dermal)
 3,636.40 mg/kg

 ATEmix (inhalation-gas)
 99,999.00 ppm

 ATEmix (inhalation-vapor)
 99,999.00 mg/l

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Distillates, petroleum, solvent-dewaxed heavy paraffinic 64742-65-0	> 15000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 2400 mg/m³ (Rat) 4 h
Calcium carbonate 471-34-1	= 6450 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 3 mg/L (Rat)4 h

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

**Skin corrosion/irritation**Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization** Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure**Based on available data, the classification criteria are not met.

Target organ effects Respiratory system, Eyes, Skin.

Aspiration hazard Based on available data, the classification criteria are not met.

Other adverse effects No information available.

Interactive effects Based on available data, the classification criteria are not met.

## 12. Ecological information

**Ecotoxicity** 

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Distillates, petroleum,	-	LC50: >5000mg/L (96h,	-	EC50: >1000mg/L (48h,
solvent-dewaxed heavy		Oncorhynchus mykiss)		Daphnia magna)
paraffinic				_
64742-65-0				

Persistence and degradability No information available.

**Bioaccumulation** There is no data for this product.

Other adverse effects No information available.

## 13. Disposal considerations

**Disposal methods** 

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## 14. Transport information

DOTNot regulatedUN number or ID numberNot applicable.Packing groupNot applicable.

## 15. Regulatory information

### **International Inventories**

TSCA Complies.

Chemical name	CAS No.	US TSCA Inventory listing	US TSCA inactive/active
			designation
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	Present	Active
Calcium carbonate	471-34-1	Present	Active

**DSL/NDSL** Complies. Complies. **EINECS/ELINCS ENCS** Complies. **IECSC** Complies. Complies. **KECL PICCS** Complies. AIIC Complies. **NZIoC** Complies.

#### Legend:

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

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**AllC** - Australian Inventory of Industrial Chemicals **NZIoC** - New Zealand Inventory of Chemicals

### **US Federal Regulations**

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Distillates, petroleum,	X	X	X
solvent-dewaxed heavy			
paraffinic			
64742-65-0			
Calcium carbonate	X	X	X
471-34-1			

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. Other information

NFPA Health hazards 1 Flammability 1 Instability 0 Special hazards - HMIS Health hazards 1 Flammability 1 Physical hazards 0 Personal protection X Chronic Hazard Star Legend \*= Chronic Health Hazard

### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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**Revision Note**No information available.

**Disclaimer** 

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**End of Safety Data Sheet** 

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