Safety Data Sheet OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS Rev 3.



Revision date: Initial version Date of issue: 04.28.2015

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Trade name: Noalox® Anti Oxidant

SECTION 1: Identification

Product identifier: Noalox® Anti Oxidant.

Synonyms: None available.

Product Code Number: 30-024, 30-026, 30-030, 30-031, 30-032, 30-040.

SDS number: ID019 **Recommended use:** Anti oxidant.

Recommended restrictions: Uses other than those recommended.

Manufacturer/Importer/Supplier/Distributor information:

Company Name: IDEAL INDUSTRIES, INC.

Company Address: Becker Place,

Sycamore, IL 60178

Company Telephone: Office hours (Mon – Fri)

7AM - 5 PM (CDT)

(815)895-5181

Company Contact Name: Darryl Docter.

Company Contact Email: IDEAL@IDEALINDUSTRIES.COM **Emergency phone number:** 24 HOUR EMERGENCY NUMBER:

(815)895-5181.

SECTION 2: Hazard(s) identification

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

Physical hazards

Not classified as a physical hazard under GHS criteria.

Health hazards

Specific target organ toxicity - repeated exposure, Category 1.

Environmental hazards

Acute aquatic toxicity, Category 2. Chronic aquatic toxicity, Category 2.

GHS Signal word: DANGER.

GHS Hazard statement(s): Causes damage to organs through prolonged or repeated

exposure.

Toxic to aquatic life with long lasting effects.

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GHS Hazard symbol(s):



GHS Precautionary statement(s):

Prevention: P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/

spray.

P264 - Wash skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this

product.

P273 - Avoid release to the environment.

Response: P314 - Get medical advice/ attention if you feel unwell.

P391 - Collect spillage.

Storage: No storage related statements required.

Disposal: P501 - Dispose of contents/ container to an approved

waste disposal plant.

Hazard(s) not otherwise

Classified (HNOC): None known.

Percentage of ingredient(s) of unknown acute toxicity:

23% of the mixture consists of ingredients of unknown acute toxicity (oral/dermal/inhalation).

SECTION 3: Composition/information on ingredients

Mixture:

Chemical name	CAS#	Concentration (weight %)
Zinc Dust	7440-66-6	15 - 20 %
Hydrophillic Fumed Silica	7631-86-9	1 – 5%

Note: The balance of the ingredients are not classified as hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

SECTION 4: First-aid Measures

Description of necessary measures:

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Inhalation: If inhaled, move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms persist.

Skin contact: In case of contact, Wash skin with soap and for at least 15 minutes. Remove contaminated clothing and thoroughly clean before reuse. Get medical attention if symptoms persist.

Eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms persist.

Ingestion: Induce vomiting and consult physician or local poison control center.

Most important symptoms/effects, acute and delayed: None normally expected. Upon prolonged contact, may cause temporary eye discomfort and organ damage.

Indication of immediate medical attention and special treatment needed: If any symptoms are observed, contact a physician and give them this SDS sheet. If exposed or concerned: Get medical advice/attention.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: Use dry chemical, carbon dioxide or foam.

Unsuitable extinguishing media: Do not use water. Water reacts with zinc dust.

Specific hazards arising from the chemical: Water or foam may cause a frothing reaction. Combustion products - Carbon monoxide, Carbon dioxide.

Special protective equipment and precautions for fire-fighters: For fire involving this material, do not enter any enclosed or confined fire space without proper protective equipment. Use self-contained breathing apparatus with full face shield to protect against the hazardous effects of combustion products and oxygen deficiencies. Keep fire exposed containers cool with water.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Stay upwind and away from spill/release. For large spillages, notify persons downwind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

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Methods and material for containment and cleaning up:

Persons not wearing protective equipment should be excluded from area of spill until cleanup has been completed. Wipe up, shovel or vacuum spilled material. Clean up spills immediately. Use absorbent media. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required.

SECTION 7: Handling and Storage

Precautions for safe handling: Wash thoroughly after handling. Wear protective gloves/clothing and eye/face protection. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8).

Conditions for safe storage, including any incompatibles: Keep away from children, infants and pets. Keep in dry location. Keep container(s) tightly closed and properly labeled. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Store in dry conditions at temperatures between 40 - 120 F.

"Empty" containers retain residue and may be dangerous. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 8: Exposure controls/personal protection

Control Parameters:

Occupational exposure limits:

US OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): Permissible Exposure Limits		
Substance	PEL-TWA (8 hour)	PEL-STEL (15 min)
Zinc Dust	No data available	No data available
Hydrophillic Fumed Silica	80 mg/m ³ /(% SiO2)	No data available

US ACGIH Threshold Limit Values		
Substance	TLV-TWA	TLV-STEL
	(8 hour)	(15 min)
Zinc Dust	No data available	No data available
Hydrophillic Fumed Silica	No data available	No data available

NIOSH Exposure Limits		
Substance	TWA	STEL

Zinc Dust	No data available	No data available
Hydrophillic Fumed Silica	6 mg/m ³	No data available

Appropriate engineering controls: General (mechanical) room ventilation is expected to be adequate. Special local ventilation is recommended to keep dust below exposure limits.

Individual protection measures, such as personal protective equipment:

Eye/face protection: The use of OSHA compliant safely glasses or splash goggles are recommended.

Skin and Hand protection: None normally required. Use neoprene gloves if necessary.

Respiratory protection: Where protection from nuisance levels of dusts are desired, use type N95 (US) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH/OSHA.

Other: An eye fountain in work area is recommended.

Thermal hazards: No data available.

SECTION 9: Physical and chemical properties

Appearance

Physical state: Paste

Form: Gray solid paste.

Color: Gray.
Odor: Mild odor.

Odor threshold: No data available

pH: 6.5 - 8.0

Melting point/freezing point: No data available

Initial boiling point and $> 500^{\circ}$ F

boiling range:

Flash point: 310° F

Evaporation rate:No data available **Flammability (solid, gas):**Not applicable

Upper/lower flammability or explosive limits

Flammability limit – lower %):
Flammability limit – upper (%):
Explosive limit – lower (%):
Not applicable
Not applicable
Not applicable
Not applicable
No data available
Vapor density:
No data available

Relative Density: 1.04 **Solubility(ies):** Moderate.

Partition coefficient (n-octanol/water): No data available **Auto-ignition temperature:** No data available

Decomposition temperature:No data available **Viscosity:**No data available

Other information:

% Volatile by volume: None Percent solids by weight: ~ 100%

SECTION 10: Stability and Reactivity

Reactivity: Not chemically reactive.

Chemical stability: Stable under normal ambient and anticipated

conditions of use.

Possibility of hazardous reactions: Hazardous reactions not anticipated.

Conditions to avoid:

Incompatible materials:

Hazardous decomposition Products:

Avoid conditions of moisture or high humidity.

Avoid strong oxidizers, strong acids and water.

Excessive heat and burning may release oxides of

carbon.

SECTION 11: Toxicological information

Information on likely routes of exposure:

Inhalation: Not an expected route of entry. **Ingestion:** Not an expected route of entry.

Skin: Skin contact is a potential route of entry.

Eyes: Not an expected route of entry.

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

None normally expected.

Delayed and immediate effects and chronic effects from short or long-term exposure:

Upon prolonged contact, may cause temporary eye discomfort and damage to organs.

Numerical measures of toxicity:

Ingredient Information:

Substance	Test Type (species)	Value
	LD ₅₀ Oral (Rat)	No data available
Zinc Dust	LD ₅₀ Dermal (Rabbit)	No data available
	LC ₅₀ Inhalation	No data available
Hydrophilic Fumed Silica	LD ₅₀ Oral (Rat)	3160 mg/kg
	LD ₅₀ Intravenous (Rat)	15 mg/kg
	LC ₅₀ Inhalation (Rat)	$> 200 \text{ gm/m}^3 (1\text{H})$

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Product Acute Toxicity Estimates:

Acute Oral Toxicity – no data available Acute Dermal Toxicity - no data available Acute Inhalation Toxicity - no data available

Skin corrosion/irritation: No information available on the mixture, however

none of the components have been classified to cause

skin corrosion/irritation (or are below the concentration threshold for classification).

Serious eye damage/eye irritation: No information available on the mixture, however

none of the components have been classified to cause eye damage/irritation (or are below the concentration

threshold for classification).

Respiratory sensitization: No information available on the mixture, however

none of the components have been classified as a respiratory sensitizer (or are below the concentration

threshold for classification).

Skin sensitization: No information available on the mixture, however

none of the components have been classified as a skin sensitizer (or are below the concentration threshold

for classification).

Germ cell mutagenicity: No information available on the mixture, however

none of the components have been classified for

germ cell mutagenicity (or are below the concentration threshold for classification).

Carcinogenicity: No information available on the mixture, however

none of the components are listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by

OSHA.

Reproductive toxicity: No information available on the mixture, however

none of the components have been classified for reproductive toxicity (or are below the concentration

threshold for classification).

Specific target organ toxicity-

Single exposure: No information available on the mixture, however

none of the components have been classified for STOT SE (or are below the concentration threshold

for classification).

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Specific target organ toxicity-

Repeat exposure: No information available on the mixture, however

Hydrophilic Fumed Silica has been classified for STOT RE and may cause damage to organs over

prolonged periods.

Aspiration hazard: No information available on the mixture, however

none of the components have been classified for aspiration hazard (or are below the concentration

threshold for classification).

Further information: No data available.

SECTION 12: Ecological information

Ecotoxicity:

Product data: No data available

Ingredient Information:

Substance	Test Type	Species	Value
Zinc Dust	LC ₅₀	Fish	No data available
	LC ₅₀	Aquatic crustacea	No data available
	EC ₅₀	Algae	No data available
Hydrophilic Fumed Silica	LC ₅₀	Fish	No data available
	LC ₅₀	Aquatic crustacea	No data available
	EC ₅₀	Algae	No data available

Persistence and Degradability: No data available **Bioaccumulative Potential:** No data available.

Mobility in Soil: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal instructions:

Contact a licensed professional waste disposal service to dispose of this material. The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations.

See Sections 7 and 8 for information on handling, storage and personal protection and Section

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9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the SDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste.

SECTION 14: Transport Information

US Department of Transportation Classification (49CFR)

Identification number UN 3077

Proper shipping name Environmentally hazardous substance, solid, n.o.s.

(contains Zinc dust)

Class / Division 9
Packing group III
Poison Inhalation Hazard No

IMDG

Identification number UN 3077

Proper shipping name Environmentally hazardous substance, solid, n.o.s.

(contains Zinc dust)

Class / Division 9
Packing group III

IATA (Country variations may apply)

Identification number UN 3077

Proper shipping name Environmentally hazardous substance, solid, n.o.s.

(contains Zinc dust)

Class / Division 9
Packing group III

SECTION 15: Regulatory Information

Safety, health and environmental regulations specific for the product.

USA:

United States Federal Regulations: This SDS complies with the OSHA, 29 CFR 1910.1200. The product is hazardous under OSHA.

Toxic Substances Control Act (TSCA) – All substances in this product are listed, as required, on the TSCA inventory.

SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311,312 and 313:

Section 302 – No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

CERCLA Hazardous Substance List, 40 CFR 302.4:

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None listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None listed.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None listed.

SARA Title III

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): None listed.

Section 311/312 (40 CFR 370):

Acute Health Hazard: Yes **Chronic Health Hazard:** Yes

Fire Hazard: No Pressure Hazard: No Reactivity Hazard: No

Section 313 Toxic Release Inventory (40 CFR 372):

This product contains the following materials that are subject to the reporting requirements of Section 313 of EPCRA: Zinc powder (stabilized).

STATE REGULATIONS:

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986: Silica, crystalline (airborne particles of respirable size) is listed on Prop 65 as a carcinogen.

Massachusetts Right to Know: Zinc powder (stabilized) and Silicon dioxide are listed on the Massachusetts Right to Know List.

New Jersey Right to Know: Zinc powder (stabilized) and Silicon dioxide are listed on the New Jersey Right to Know list.

Pennsylvania Right to Know: Zinc powder (stabilized) and Silicon dioxide are listed on the Pennsylvania Right to Know List.

Canada WHMIS Hazard Class: D2B – Very Toxic Material

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

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To the best of our knowledge, the information contained herein is accurate. However IDEAL INDUSTRIES INC. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

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