



Trade name: Noalox Anti-Oxidant

SECTION 1: Identification

Product identifier used on the label:

Product Name: Noalox Anti-Oxidant

Other means of identification:

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

Recommended use of the chemical and restrictions on use:

Recommended use: Anti-oxidant

Recommended restrictions: Uses other than those described above.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

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

Pyrophoric solids, Category 1

Substances and mixtures which in contact with water, emit flammable gases, Category 1

Health hazards

None expected.

Environmental hazards

Not adopted under OSHA paragraph (d) of §1910.1200

GHS Signal word: DANGER

GHS Hazard statement(s): Catches fire spontaneously if exposed to air.
In contact with water releases flammable gases, which may ignite spontaneously.

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GHS Hazard symbol(s):



GHS Precautionary statement(s):

Prevention:

- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Do not allow contact with air.
- Do not allow contact with water.
- Handle under inert gas. Protect from moisture.
- Wear protective gloves /eye protection/face protection.

Response:

- Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.
- In case of fire: Use dry sand clay or Class D extinguishers to extinguish.

Storage:

- Store contents under an inert atmosphere
- Store in a dry place. Store in a closed container.

Disposal:

- Dispose of contents/container to an approved disposal site in accordance with local/regional/national/ international regulations

Hazard(s) not otherwise

Classified (HNOC): None known.

Percentage of ingredient(s) of unknown acute toxicity:

20% of the mixture consists of ingredients of unknown acute toxicity (dermal/inhalation).

SECTION 3: Composition/information on ingredients

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

NOTE: The balance of the ingredients is not classified as hazardous or are below the concentration limit to be classified as hazardous, under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

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SECTION 4: First-aid measures

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:

Inhalation: Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Call a physician if symptoms develop.

Skin contact: Wash immediately with plenty of water and soap for 15 minutes and rinse thoroughly. Remove clothing while washing. Call a physician if symptoms develop.

Eye contact: In case of contact with eyes, flush with water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Do not apply neutralizing agents. Call a physician if symptoms develop.

Ingestion: Do NOT induce vomiting. If swallowed, wash mouth out with water provided the person is conscious. NEVER GIVE LIQUIDS TO AN UNCONCIOUS PERSON. Call a physician if symptoms develop.

Most important symptoms/effects, acute and delayed:

None expected.

Indication of immediate medical attention and special treatment needed:

If any symptoms are observed, contact a physician and give them this SDS sheet. Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media: Dry sand, clay, approved class D extinguishers.

Unsuitable extinguishing media: DO NOT USE WATER, Carbon dioxide, Dry chemical or foam.

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

Flammable. Fine dust dispersed in air may ignite. Pyrophoric: Spontaneously flammable in air. Water reactive. Contact with water liberates extremely flammable gases. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous combustion products may include the following substances: Hydrogen.

Special protective equipment and precautions for fire-fighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate all non-emergency personnel from area. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

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SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

No action shall be taken involving any personal risk or without suitable training. Isolate the area. Evacuate personnel to safe areas. Approach from upwind. Avoid dust formation. Ventilate the area. Prevent further leakage or spillage if safe to do so.

Wear chemical resistant personal protective equipment, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

Environmental Precautions:

Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up:

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. See Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7: Handling and storage

Precautions for safe handling:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not allow contact with air or water. Handle under inert gas. Protect from moisture.

Wear recommended personal protective equipment (See Section 8). Avoid dust formation. Avoid ingestion and inhalation. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for safe storage, including any incompatibles:

Store contents under an inert atmosphere. Store in a dry place. Store in a closed container. Store in a well-ventilated area. Store at ambient temperature. Keep container closed when not in use. Make sure containers are properly labeled.

Incompatible materials: Strong oxidizing agents. Strong acids. Strong bases. Amines.

SECTION 8: Exposure controls/personal protection

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

Substance	OSHA PEL	ACGIH TLV	NIOSH IDLH
Zinc Dust	None known	None known	None known

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Substance	OSHA PEL	ACGIH TLV	NIOSH IDLH
Hydrophilic Fumed Silica	20 mppcf TWA; (80)/(% SiO ₂) mg/m ³ TWA 5 mg/m ³ (as PNOR, respirable dust)	None known	6 mg/m ³ TWA 3000 mg/m ³ IDLH

Appropriate engineering controls:

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Concentrations should be monitored hazardous substances in the workplace in accordance with recognized test methods. Mode, method, type and frequency of testing and measurement of harmful factors in the working environment should meet the requirements of local/regional/national laws.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear safety glasses or chemical safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US).

Skin and Hand protection: Wear impervious gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

General hygiene considerations: Eye wash fountains should be located in the work areas. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.):

Physical state:	Paste.
Color:	Gray.
Odor:	Mild odor.
Odor threshold:	Not determined.
pH:	6.5 - 8
Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	> 500 °F
Flash point:	310 °F.

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Evaporation rate:	Not determined.
Flammability (solid, gas):	Not applicable
Upper/lower flammability or explosive limits	
Flammability limit – lower (%):	Not determined.
Flammability limit – upper (%):	Not determined.
Explosive limit – lower (%):	Not determined.
Explosive limit – upper (%):	Not determined.
Vapor pressure:	Not determined.
Vapor density:	Not determined.
Relative density:	Not determined.
Solubility (ies):	Not determined.
Partition coefficient (n-octanol/water):	Not determined.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Viscosity:	Not determined.

SECTION 10: Stability and reactivity

Reactivity:	Water reactive. Moisture sensitive. Air sensitive. Pyrophoric: Spontaneously flammable in air.
Chemical stability:	Stable under recommended storage and handling conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Avoid dust formation. Incompatible products. Exposure to air. Exposure to moist air or water. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible materials:	Avoid contact with Strong oxidizing agents, Strong acids, Strong bases, Amines.
Hazardous decomposition Products:	Hydrogen.

SECTION 11: Toxicological information

Information on likely routes of exposure:

Inhalation:	Expected to be a route of exposure
Ingestion:	Expected to be a route of exposure
Skin:	Expected to be a route of exposure
Eyes:	Expected to be a route of exposure
Target Organs:	Eyes, Skin, respiratory system

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

None expected.

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

No additional information available.

Numerical measures of toxicity (such as acute toxicity estimates):

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Substance	Test Type (species)	Value
Zinc Dust	LD ₅₀ Oral (Rat)	630 mg/kg
	LD ₅₀ Dermal (Rabbit)	None known
	LC ₅₀ Inhalation (Rat)	None known
Hydrophilic Fumed Silica	LD ₅₀ Oral (Rat)	7900 mg/kg
	LD ₅₀ Dermal (Rabbit)	> 5000 mg/kg
	LC ₅₀ Inhalation (Rat)	> 58.8 mg/L 4 h (dust)

Acute Toxicity:	Does not meet the criteria for classification.
Skin corrosion/irritation:	Does not meet the criteria for classification.
Serious eye damage/eye irritation:	Does not meet the criteria for classification.
Respiratory sensitization:	Does not meet the criteria for classification.
Skin sensitization:	Does not meet the criteria for classification.
Germ cell mutagenicity:	Does not meet the criteria for classification.
Carcinogenicity:	Does not meet the criteria for classification.
Reproductive toxicity:	Does not meet the criteria for classification.
Specific target organ toxicity- Single exposure:	Does not meet the criteria for classification.
Specific target organ toxicity- Repeat exposure:	Does not meet the criteria for classification,
Aspiration hazard:	Does not meet the criteria for classification.

Whether the hazardous chemical is 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:

Component	IARC	NTP	ACGIH	OSHA
Zinc Dust	Not listed	Not listed	Not listed	Not listed
Hydrophilic Fumed Silica	IARC - Group 3 (Not Classifiable)	Known	Not listed	Not listed

SECTION 12: Ecological information

Ecotoxicity (aquatic and terrestrial, where available):
Toxic to aquatic life with long lasting effects

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Substance	Test Type	Species	Value
Zinc Dust	LC ₅₀	Fish – Pimephales promelas	0.211 - 0.269 mg/L 96h
	EC ₅₀	Aquatic Invertebrates – Daphnia magna	0.139 - 0.908 mg/L 48h
	EC ₅₀	Algae - Pseudokirchneriella subcapitata	0.09 - 0.125 mg/L 72h
Hydrophilic Fumed Silica	LC ₅₀	Fish – Brachydanio rerio	5000 mg/L 96h
	EC ₅₀	Aquatic Invertebrates - Ceriodaphnia dubia	7600 mg/L 48h
	EC ₅₀	Algae - Pseudokirchneriella subcapitata	440 mg/L 72h

Persistence and Degradability:

No data available

Bioaccumulative Potential:

No data available

Mobility in Soil:

No data available

Other adverse effects (such as hazardous to the ozone layer):

No data available

SECTION 13: Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.

Product

Dispose of waste materials in accordance with applicable local and national laws and regulations. Where possible, recycling is preferred to disposal or incineration. Contact the proper local authorities.

Contaminated packaging

Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose of as unused product.

SECTION 14: Transport Information

US Department of Transportation Classification (49CFR)

UN 2813, WATER-REACTIVE SOLID, N.O.S. (Contains Zinc dust), 4.3, 4.2, II.

IMDG (Transport by sea)

UN 2813, WATER-REACTIVE SOLID, N.O.S. (Contains Zinc dust), 4.3, 4.2, II.

IATA (Country variations may apply)

UN 2813, WATER-REACTIVE SOLID, N.O.S. (Contains Zinc dust), 4.3, 4.2, II

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Environmental hazards

Marine pollutant: Yes

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

No further relevant information is available.

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.

None known.

SECTION 15: Regulatory Information

USA:

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

Toxic Substances Control Act (TSCA) - All components are listed on the TSCA inventory or are exempted.

CERCLA RQ (lbs) Ingredients (> 0.1%):

Zinc dust - 454 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 1000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm).

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

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) (> 0.1%):

None of the components are listed.

Section 311/312 (40 CFR 370) (> 0.1%):

Pyrophoric (liquid or solid)

In contact with water emits flammable gas

Section 313 Toxic Release Inventory (40 CFR 372) (> 0.1%):

Zinc dust - 1.0 % de minimis concentration (dust or fume only)

STATE REGULATIONS:

This SDS contains specific health and safety data that 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): None of the components are listed.

Massachusetts Right to Know:

Zinc Dust and Hydrophilic Fumed Silica are listed on the Massachusetts Right to Know list.

New Jersey Right to Know:

Zinc Dust and Hydrophilic Fumed Silica are listed on the New Jersey Right to Know list.

Pennsylvania Right to Know:

Zinc Dust and Hydrophilic Fumed Silica are listed on the Pennsylvania Right to Know list.

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SECTION 16: Other Information

Revision Date: April 9, 2023

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.