

PRODUCT NAME: ABRO Super Seal
PRODUCT NUMBER/SIZE: SS-822 / 8 oz.

Rev Date: 04/07/2015

SECTION 1
Identification of the Substance and of the Company/Undertaking

MANUFACTURER'S NAME: ABRO INDUSTRIES, INC.
ADDRESS: 3580 Blackthorn Court
South Bend, IN 46628
USA
PRODUCT DESCRIPTION: Liquid Sealant
COMPANY PHONE: 574-232-8289
EMERGENCY 24-HR TELEPHONE: Chemtrec: US/Canada 1-800-424-9300
International +1-703-527-3887

SECTION 2
Hazards Identification

Classification:

Not classified

Label Pictogram(s):

None

Signal Word: **WARNING**

Hazard Phrases: No data available

Precautionary Phrases: No data available

Response: No data available

Storage / Disposal: No data available

Other: Keep out of reach of children.

SECTION 3
Composition/Information on Ingredients

COMPONENTS	CAS Number	Percent by weight	Classification (GHS-US)
DI – Water	7789-20-0	41-495 – 66.392	Not classified
Sodium Silicate, Conc=41%, Aqueous Solution	1344-09-8	16.598-41.495	Not classified
Copper, Powder	7440-50-8	<1	Not classified

Sodium Nitrate	7632-00-0	<1	Ox. Sol. 3, H272 Acute Tox. 3 (Oral), H301 Aquatic Acute 1, H400
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SECTION 4 First Aid Measures

Description of first aid measures

First-aid measures general:	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation:	Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact:	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact:	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion:	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries:	Not expected to present a significant hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.
Symptoms/injuries after inhalation:	May cause cancer by inhalation.
Symptoms/injuries after skin contact:	May cause slight irritation.
Symptoms/injuries after eye contact:	May cause slight eye irritation.
Symptoms/injuries after ingestion:	May be harmful if swallowed and enters airways.

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5 Fire Fighting Measures

Extinguishing media

Suitable extinguishing media:	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media:	Do not use a heavy water stream.

Special hazards arising from the substance or mixture

No additional information available

Advice for firefighters

Firefighting instructions:	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting:	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

General measures:	Remove ignition sources.
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For non-emergency personnel

Protective equipment: Safety glasses. Gloves.
Emergency procedures: Evacuate unnecessary personnel.

For emergency responders

Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

For containment: Dam up the solid spill. Contain released substance, pump into suitable containers. Plug the leak, cut off the supply.

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7
Handling and Storage

Precautions for safe handling

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Provide good ventilation in process area to prevent formation of vapor.

Hygiene measures: Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Technical measures: Proper grounding procedures to avoid static electricity should be followed.

Storage conditions: Keep only in the original container in a cool, well ventilated place away from: Keep container closed when not in use.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight.

Specific end use(s)

Follow Label Directions.

SECTION 8
Exposure Controls/Personal Protection

Control parameters

Copper, Powder (7440-50-8)

USA ACGIH ACGIH TWA (mg/m³) 0.2 mg/m³

Exposure controls

Appropriate engineering controls: Local exhaust ventilation, vent hoods.

Personal protective equipment: Avoid all unnecessary exposure. Gloves. Safety glasses.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.

Skin and body protection: Wear suitable protective clothing.
Respiratory protection: Wear appropriate mask.
Other information: Do not eat, drink or smoke during use.

SECTION 9 Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state:	Liquid
Appearance:	Clear, with copper-colored dispersion at bottom.
Color:	Copper
Odor:	Odorless
Odor threshold:	No data available
pH:	11-12
Relative evaporation rate (butyl acetate=1):	No data available
Melting point:	No data available
Freezing point:	No data available
Boiling point:	100 - 102 °C
Flash point:	None
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	No data available
Vapor pressure:	No data available
Relative vapor density at 20 °C:	No data available
Relative density:	1.3 – 1.4
Solubility:	Soluble in water. Water: >99%
Log Pow:	No data available
Log Kow:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available
Explosive limits:	No data available

Other information

No additional information available

SECTION 10 Stability and Reactivity

Reactivity

No additional information available

Chemical stability

Not established.

Possibility of hazardous reactions

Not established.

Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

Incompatible materials

Strong acids. Strong bases.

Hazardous decomposition products

Toxic fume. Carbon monoxide. Carbon dioxide.

**SECTION 11
Toxicological Information**

Information on toxicological effects

Acute toxicity: Not classified

Sodium Silicate, Conc=41%, Aqueous Solution (1344-09-8)

LD50 oral rat >2000 mg/kg

Sodium Nitrite (7632-00-0)

LD50 oral rat 180 mg/kg (Rat; Other; Experimental value)

LD50 inhalation rat (mg/l) 5.5 mg/l/4h (Rat; Literature study)

Skin corrosion/irritation:	Not classified. PH: 11-12
Serious eye damage/irritation:	Not classified. PH: 11-12
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
Specific target organ toxicity (single exposure):	Not classified
Specific target organ toxicity (repeated exposure):	Not classified
Aspiration hazard:	Not classified
Potential Adverse human health effects and symptoms:	Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation:	May cause irritation or asthma-like symptoms.
Symptoms/injuries after skin contact:	May cause slight irritation. Itching. Red skin.
Symptoms/injuries after eye contact:	May cause slight eye irritation. Irritation of the eye tissue. Inflammation/damage of the eye tissue. Redness of the eye tissue.
Symptoms/injuries after ingestion:	May be harmful if swallowed and enters airways. Vomiting. Nausea.

**SECTION 12
Ecological Information**

Toxicity

Sodium Silicate, Conc=41%, Aqueous Solution (1344-09-8)

LC50 fish 1	2320 mg/l (96 h; Gambusia affinis; Pure substance)
EC50 Daphnia 1	216 mg/l (96 h; Daphnia magna; Pure substance)
LC50 fish 2	3185 mg/l (96 h; Brachydanio rerio; Pure substance)
EC50 Daphnia 2	247 mg/l (100 h; Daphnia magna; Pure substance)
TLM fish 1	2320 ppm (96 h; Gambusia affinis; Pure substance)

Sodium Nitrite (7632-00-0)

LC50 fish 1	40.6 mg/l (96 h; Channa punctatus; Nitrite)
EC50 Daphnia 1	12.5 - 100 mg/l (48 h; Daphnia magna; Nitrite)
EC50 other aquatic organisms 1	20 mg/l (Protozoa; Toxicity test)
LC50 fish 2	.56 - 1.78 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	66 mg/l (48 h; Daphnia magna; Nitrogen)

TLM fish 1	7.5 ppm (48 h; Gambusia affinis)
Threshold limit algae 1	1230 mg/l (192 h; Scenedesmus quadricauda; Nitrite)
Threshold limit algae 2	350 mg/l (192 h; Microcystis aeruginosa; Nitrite)

Copper, Powder (7440-50-8)

LC50 fish 1	200 µg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Lethal)
EC50 Daphnia 1	109 - 798 µg/l (48 h; Daphnia magna; Locomotor effect)
Threshold limit algae 1	230 µg/l (72 h; Pseudokirchneriella subcapitata; Growth rate)

Persistence and degradability

Persistence and degradability	Not established.
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Sodium Silicate, Conc=41%, Aqueous Solution (1344-09-8)

Persistence and degradability

Biodegradability:	Not applicable. No (test) data on mobility of the components available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

DI - Water (7789-20-0)

Persistence and degradability	Not established.
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Sodium Nitrite (7632-00-0)

Persistence and degradability

Biodegradable in water.

Autooxidation in water.	No (test) data on mobility of the substance available.
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Water (7732-18-5)

Persistence and degradability	Not established.
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Copper, Powder (7440-50-8)

Persistence and degradability

Biodegradability:	Not applicable.
Biodegradability in soil:	Not applicable. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

Bioaccumulative potential

Bioaccumulative potential	Not established.
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Sodium Silicate, Conc=41%, Aqueous Solution (1344-09-8)

Bioaccumulative potential	Not bioaccumulative.
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DI - Water (7789-20-0)

Bioaccumulative potential Not established.

Sodium Nitrite (7632-00-0)

BCF fish 1 11.3 *Salmo gairdneri* (*Oncorhynchus mykiss*)

Log Pow -3.7 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 25 °C)

Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).

Water (7732-18-5)

Bioaccumulative potential Not established.

Copper, Powder (7440-50-8)

Bioaccumulative potential

Bioaccumulation: Not applicable.

Mobility in soil No additional information available

Other adverse effects

Other information: Avoid release to the environment.

SECTION 13
Disposal Considerations

Waste treatment methods

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials: Avoid release to the environment.

SECTION 14
Transport Information

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

U.S. DOT UN/ID Number: Not Regulated
 Proper shipping name:
 Hazard class:
 Packing Group:
 Exceptions:
 Environmental Hazards:
 Transport in Bulk:
 Special Precautions:

IMO/IMDG UN/ID Number: Not Regulated
 Proper shipping name:
 Hazard class:

Packing Group:
Exceptions:
Environmental Hazards:
Transport in Bulk:
Special Precautions:

ICAO/IATA UN/ID Number: Not Regulated
Proper shipping name:
Hazard Class:
Packing Group:
Exceptions:
Environmental Hazards:
Transport in Bulk:
Special Precautions:

Canada (TDG) UN/ID Number: Not Regulated
Proper shipping name:
Hazard class:
Packing Group:
Exceptions:
Environmental Hazards:
Transport in Bulk:
Special Precautions:

SECTION 15 Regulatory Information

US Federal regulations

ABRO Super Seal

SARA Section 311/312 Hazard Classes Immediate (acute) health hazard

Sodium Nitrite (7632-00-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA Section 311/312 Hazard Classes Immediate (acute) health hazard
Reactive hazard

Copper, Powder (7440-50-8)

Listed on United States SARA Section 313

Listed on the United States TSCA (Toxic Substances Control Act) inventory

International regulations

CANADA

Sodium Nitrite (7632-00-0)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Class C - Oxidizing Material

Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

EU-Regulations

Sodium Nitrite (7632-00-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
- Directive 79/831/EEC, sixth Amendment of Directive 67/548/EEC (dangerous substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11

O; R8

Xi; R41

Xi; R38

Full text of R-phrases: see section 16

National regulations

Sodium Nitrite (7632-00-0)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on AICS (Australian Inventory of Chemical Substances)

US State regulations

No additional information available

SECTION 16
Other Information

Other information: None.

Full text of H-phrases: see section 16:

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Ox. Sol. 3	Oxidizing solids Category 3
H272	May intensify fire; oxidizer
H301	Toxic if swallowed
H400	Very toxic to aquatic life

NFPA health hazard:	2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard:	1 - Must be preheated before ignition can occur.
NFPA reactivity:	0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III Rating

Health:	2 Moderate Hazard – Temporary or minor injury may occur
Flammability:	1 Slight Hazard
Physical:	0 Minimal Hazard
Personal Protection:	B

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disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

ABBREVIATIONS:

NG="NOT GIVEN"

<="LESS THAN"

ND = Not Determined

BT="BETWEEN"

>="GREATER THAN"

NA = Not Applicable