

PRODUCT NAME: ABRO Structural Silicone Sealant/Adhesive
PRODUCT NUMBER/SIZE: SS-9895

Revision Date: 04/08/15

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: Silicone 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

Health	*	2
Flammability		2
Physical Hazard		0
Personal Protection	x	

Classification:

Flammable liquids, Category 4
Skin irritation, Category 2
Eye irritation, Category 2A
Skin sensitization, Category 1
Carcinogenicity, Category 2.

Label Pictogram(s):



Signal Word: **WARNING**

Hazard Phrases: Combustible liquid. Causes skin irritation. May cause an allergic skin reaction.
Causes serious eye irritation. Suspected of causing cancer.

Precautionary Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. -

Phrases:	No smoking. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear eye protection/ face protection. Wear protective gloves. Use personal protective equipment as required.
Response:	IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment for extinction.
Storage / Disposal:	Store locked up. Store in a well-ventilated place. Dispose of contents/ container to an approved waste disposal plant.
Other:	See Section 11 for more detailed information on health effects and symptoms.

SECTION 3 Composition/Information on Ingredients

COMPONENTS	CAS Number	Percent by weight
Polysiloxanediol	70131-67-8	>= 25 - < 50 %
Butan-2-one-O,O',O'' (methylsilyldiylne)trioxime	22984-54-9	>= 2 - < 5 %
Vinyl tris-(methyl ethyl ketoxime) silane (VOS)	2224-33-1	>= 0 - < 1 %
N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl] ethylenediamine	35141-30-1	>= 0 - < 1 %
Carbon black	1333-86-4	>= 0 - < 1 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4 First Aid Measures

First Aid Measures

If inhaled:	Move to fresh air. Consult a physician after significant exposure.
In case of skin contact:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed:	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed:	<p>Irritant effects Sensitizing effects Allergic reactions Excessive lachrymation Erythema Dermatitis See Section 11 for more detailed information on health effects and symptoms.</p>
Protection of first-aiders:	Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance.
Notes to physician:	Treat symptomatically.

SECTION 5 Fire Fighting Measures

Suitable extinguishing media	Carbon dioxide (CO ₂)
Specific extinguishing methods:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Deny access to unprotected persons.
Environmental precautions:	Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7 Handling and Storage

Advise on safe handling:	<p>Do not breathe vapors or spray mist. Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. Follow standard hygiene measures when handling chemical products.</p>
Conditions for safe storage:	<p>Store in original container. Keep in a well-ventilated place.</p>

Observe label precautions.
Store in accordance with local regulations.

Materials to avoid: No data available

SECTION 8

Exposure Controls/Personal Protection

Component	CAS-No.	Basis**	Value	Exposure limit(s)*/ Form of exposure
Carbon black	1333-86-4	ACGIH	TWA	3.5 mg/m3
		OSHA Z-1	TWA	3.5 mg/m3
		OSHA P0	TWA	3.5 mg/m3

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**Basis

ACGIH. Threshold Limit Values (TLV)

OSHA P0. Table Z-1, Limit for Air Contaminant (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

Engineering measures: Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Personal protective equipment

Respiratory protection: Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection remarks: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin and body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Hygiene measures: Avoid contact with skin, eyes and clothing.
Wash hands before breaks and immediately after handling the product.
Remove respiratory and skin/eye protection only after vapors have been cleared from the area.
Remove contaminated clothing and protective equipment before entering eating areas.
Wash thoroughly after handling.

SECTION 9

Physical and Chemical Properties

Appearance:	Paste
Color:	various
Odor:	Mild, musty
Odor Threshold:	No Data Available.
Flash Point:	>189°F (>87°C)
Ignition Temperature:	Not Applicable.
Decomposition Temperature:	No Data Available.
Lower explosion limit (Vol%):	No Data Available.
Upper explosion limit (Vol%):	No Data Available.
Flammability (solid, gas):	No Data Available.
Oxidizing Properties:	No Data Available.
Autoignition Temperature:	No Data Available.
pH:	No Data Available.
Solubility Melting point/range /Freezing point:	No Data Available.
Boiling point/boiling range:	No Data Available.
Vapor Pressure:	No Data Available.
Density:	ca.1.14 g/cm ³ at 73 °F (23 °C)
Water Solubility:	Note: Insoluble
%-VOC Content: Partition coefficient:	No Data Available.
noctanol/water	
Viscosity, dynamic:	No Data Available.
Viscosity, kinematic:	> 20.5 mm ² /s at 104 °F (40 °C)
Relative vapor density:	No Data Available.
Evaporation rate:	No Data Available.
Burning rate:	No Data Available.
Volatile organic compounds (VOC) content:	26 g/l

SECTION 10

Stability and Reactivity

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical Stability:	The product is chemically stable.
Possibility of hazardous reactions:	Stable under recommended storage conditions.
Conditions to avoid:	Extremes of temperature and direct sunlight.
Incompatible Materials:	No Data Available.

SECTION 11

Toxicological Information

Acute toxicity

Product

Acute oral toxicity:	No data available.
Acute inhalation toxicity:	No data available.
Acute dermal toxicity:	No data available.

Ingredients:

Carbon black :

Acute oral toxicity:

LD50 Oral rat: > 8,000 mg/kg

N-(2-aminoethyl)-N'-[3-

(trimethoxysilyl)propyl]ethylenediamine :

Acute inhalation toxicity:

LD50 Oral rat: 7,758 mg/kg

Acute dermal toxicity:

LD50 Dermal rat: 16,640 mg/kg

Skin corrosion/irritation

Product

Causes skin irritation.

Serious eye damage/eye irritation

Product

Causes serious eye irritation

Respiratory or skin sensitization

Product

May cause an allergic skin reaction.

Germ cell mutagenicity

Product

Mutagenicity:

No data available.

Carcinogenicity

Product

Carcinogenicity:

Suspected of causing cancer.

IARC:

Group 2B: Possibly carcinogenic to humans

Carbon black 1333-86-4

NTP:

Not applicable.

Reproductive Toxicity/Fertility

Product

Reproductive toxicity:

No data available.

ReproductiveToxicity/

Development/Teratogenicity

Product

Teratogenicity:

No data available.

STOT-single exposure

Product

Assessment:

No data available.

STOT-repeated exposure

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Product

Assessment:

No data available

Aspiration toxicity

Product

No data available

SECTION 12 Ecological Information

Other Information: Do not empty into drains; dispose of this material and its container in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Component:

Carbon black 1333-86-4 Toxicity to fish:
LC50
Species: Brachydanio rerio (zebrafish)
Dose: > 1,000 mg/l
Exposure time: 96 h

SECTION 13 Disposal Considerations

Waste from residues: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Contaminated Packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

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.

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

Special precautions for user

No data available

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

Not applicable

SECTION 15 Regulatory Information

TSCA list: All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazard:

Chronic Health Hazard
Acute Health Hazard
Fire Hazard

SARA 302:

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

SARA 313:

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Ozone-Depletion Potential

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

California Prop 65

WARNING! This product contains a chemical known in the State of California to cause cancer.

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

SECTION 16 Other Information

We believe all information given is accurate. It is offered in good faith but without guarantee. Since conditions of use are beyond our control, user assumes all responsibility and risk.

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and 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