

PRODUCT NAME: ABRO High Temp Silicone Sealant Red
PRODUCT NUMBER/SIZE: SS-2400-RED-HIT / 290 mL

Revision Date: 09/11/2015

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: Acetoxy Silicone Sealant – High Temperature Red

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 a hazardous substance or mixture.

Label Pictogram(s):

None Required

Signal Word: None Required

Hazard Phrases: None

Precautionary Phrases: Use only outdoors or in a well-ventilated area.

Response: None

Storage / Disposal: None

SECTION 3 Composition/Information on Ingredients

Substance/mixture: Mixture

Other means of identification: Silicone elastomer

CAS number/other identifiers

CAS number: Not applicable.

Product code: Not applicable

<u>Ingredient Name</u>	<u>%</u>	<u>CAS Number</u>
Silicon Dioxide	>=5 - < 10	7631-86-9
Distillates (petroleum), hydrotreated middle	>= 5 - < 10	64742-46-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4 First Aid Measures

Description of Necessary First Aid Measures

Eye contact:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
Inhalation	If inhaled, remove to fresh air.
Skin contact:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
Ingestion	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Most important symptoms/effects (Acute and delayed)

Potential acute health effects:

Eye contact:	No known significant effects or critical hazards.
Inhalation:	No known significant effects or critical hazards.
Skin contact:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.

Over-exposure signs/symptoms:

Eye contact:	No known significant effects or critical hazards.
Inhalation:	No known significant effects or critical hazards.
Skin contact:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary:

Notes to physician: Treat symptomatically and supportively.

Specific treatments: No specific treatment.

Protection of first-aiders: No special precautions are necessary for first aid responders.

See toxicological information (Section 11)

**SECTION 5
Fire Fighting Measures**

Extinguishing media

Suitable extinguishing media: Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO₂)

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical: Exposure to combustion products may be a hazard to health.

Hazardous thermal decomposition products: Hazardous combustion products:
Carbon oxides
Silicon oxides
Formaldehyde

Special protective actions for fire-fighters: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

**SECTION 6
Accidental Release Measures**

Personal precautions, protective equipment, and emergency procedures

For non-emergency personnel: Follow safe handling advice and personal protective equipment recommendations.

For emergency responders: Follow safe handling advice and personal protective equipment recommendations.

Environmental precautions: Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Small spill: Soak up with inert absorbent material.

Large spill: For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the

cleanup of releases. You will need to determine which regulations are applicable.

SECTION 7 Handling and Storage

Precautions for safe handling

Protective measures:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. Use only with adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Take care to prevent spills, waste and minimize release to the environment.
Advice on general occupational hygiene:	None
Conditions for safe storage, including any incompatibilities:	Keep in properly labeled containers. Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing agents

SECTION 8 Exposure Controls/Personal Protection

Control parameters

Occupational exposure limits

Ingredient name:	Exposure limits:
Silicon dioxide (CAS: 7631-86-9)	TWA (Inhalation): 20 million particles per cubic foot (Silica) (OSHA) TWA (Inhalation): 80 mg/m ³ / %SiO ₂ (Silica) (OSHA) TWA: 6 mg/m ³ (Silica) (NIOSH)
Distillates (petroleum), hydrotreated middle (CAS: 64742-46-7)	TWA (Inhalation): 5 mg/m ³ (OSHA) TWA (Inhalation): 5 mg/m ³ (OSHA) TWA (Inhalation): 5 mg/m ³ (NIOSH) ST (Inhalation): 10 mg/m ³ (NIOSH)

Appropriate engineering controls: Processing may form hazardous compounds (see section 10). Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

Environmental exposure controls: Ensure that eye flushing systems and safety showers are located close to the working place. These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

Individual protection measures

Hygiene measures: None

Eye/face protection: Wear the following personal protective equipment: Safety glasses

Skin protection

Hand protection: Skin should be washed after contact. Wash hands before breaks and at the end of workday.

Body protection:	When using do not eat, drink or smoke. Wash contaminated clothing before re-use.
Other skin protection:	None
Respiratory protection:	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

SECTION 9 Physical and Chemical Properties

Appearance

Physical State:	Paste
Odor:	Acetic acid
Odor Threshold:	No data available.
Ph:	Not available.
Melting Point:	No data available.
Boiling Point:	Not available.
Flash Point:	>100 degrees C closed cup
Burning Time:	Not available.
Burning Rate:	Not available.
Evaporation Rate:	Not applicable.
Flammability (Solid, Gas):	Not classified as a flammability hazard
Lower And Upper Explosive (Flammable) Limits:	No data available.
Vapor Pressure:	Not applicable.
Vapor Density:	No data available.
Relative Density:	1.007
Solubility:	No data available.
Partition Coefficient: N-Octanol/Water:	No data available.
Auto-Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Viscosity:	Not applicable.
Explosive properties	Not explosive.
Oxidizing properties	The substance or mixture is not classified as oxidizing.

SECTION 10 Stability and Reactivity

Reactivity:	Not classified as a reactivity hazard.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. Acetic acid is formed upon contact with water or humid air. When heated to temperatures above 150 °C (300

°F) in the presence of air, trace quantities of formaldehyde may be released. Adequate ventilation is required. See OSHA formaldehyde standard, 29 CFR 1910.1048 Hazardous decomposition products will be formed at elevated temperatures.

Conditions To Avoid: None known.
Incompatible Materials: Oxidizing agents
Hazardous Decomposition Products: Formaldehyde

SECTION 11 Toxicological Information

Information on Toxicological Effects

Acute Toxicity:

Not classified based on available information.

Acute inhalation toxicity : Acute toxicity estimate: > 10 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: Calculation method

Ingredients:

Silicon dioxide:

Acute oral toxicity : LD50 (Rat): > 3,300 mg/kg

Assessment: The substance or mixture has no acute oral toxicity

Remarks: Information taken from reference works and the literature.

Acute inhalation toxicity : LC50 (Rat): > 2.08 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity

Remarks: Information taken from reference works and the literature.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Assessment: The substance or mixture has no acute dermal toxicity

Remarks: Information taken from reference works and the literature.

Distillates (petroleum), hydrotreated middle:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 1.78 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Skin corrosion/irritation:

Not classified based on available information.

Ingredients:

Silicon dioxide:

Result: No skin irritation

Remarks: Information taken from reference works and

	the literature.
Serious eye damage/irritation:	Not classified based on available information. Ingredients: Silicon dioxide: Result: No eye irritation Remarks: Information taken from reference works and the literature.
Respiratory or skin sensitization:	Skin sensitization: Not classified based on available information. Respiratory sensitization: Not classified based on available information. Ingredients: Silicon dioxide: Assessment: Does not cause skin sensitization. Test Type: Skin: test type not specified Species: Guinea pig Remarks: No known sensitizing effect. Information taken from reference works and the literature.
Germ cell mutagenicity:	Not classified based on available information. Ingredients: Silicon dioxide: Genotoxicity in vitro : Result: negative Remarks: Information taken from reference works and the literature. Genotoxicity in vivo : Application Route: Ingestion Result: negative Remarks: Information taken from reference works and the literature. Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.
Carcinogenicity:	Not classified based on available information. IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Reproductive toxicity:	Reproductive toxicity: Not classified based on available information.
Specific Target Organ Toxicity (Single Exposure):	Not classified based on available information.

**Specific Target Organ Toxicity
(Repeated Exposure):**

STOT-repeated exposure: Not classified based on available information.

Aspiration Hazard:

Aspiration toxicity: Not classified based on available information.

Ingredients:

Distillates (petroleum), hydrotreated middle:
The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Potential Acute Health Effects

Eye Contact: Not available.
Inhalation: Not available.
Skin Contact: Not available.
Ingestion: Not available.

Symptoms Related To The Physical, Chemical, And Toxicological Characteristics

Eye Contact: Not available.
Inhalation: Not available.
Skin Contact: Not available.
Ingestion: Not available.

Delayed And Immediate Effects And Also Chronic Effects From Short- And Long-Term Exposure

Short-Term Exposure:

Potential Immediate Effects: Not available.
Potential Delayed Effects: Not available.

Long-Term Exposure:

Potential Immediate Effects: Not available.
Potential Delayed Effects: Not available.

Potential Chronic Health Effects

General: Not available.
Carcinogenicity: Not available.
Mutagenicity: Not available.
Teratogenicity: Not available.
Developmental Effects: Not available.
Fertility Effects: Not available.

Numerical Measures Of Toxicity

Acute Toxicity Estimates

ROUTE: **ATE VALUE**
Not available. Not available.

**SECTION 12
Ecological Information**

Toxicity

Product/Ingredient Name	Result	Species	Exposure
No data available	No data available	No data available	No data available

Persistence And Degradability:

No data available

Bioaccumulative Potential:

No data available

Mobility In Soil:

Soil/Water Partition Coefficient (K_{oc}): No data available

Other Adverse Effects: No data available

SECTION 13 Disposal Considerations

Disposal Methods: Resource Conservation and Recovery Act (RCRA):
This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form. Waste from residues: Dispose of in accordance with local regulations. Disposal of contaminated packaging: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14 Transport Information

DOT (US): Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

SECTION 15 Regulatory Information

U.S. FEDERAL REGULATIONS:

Emergency Planning And Community Right-To-Know (EPCRA) CERCLA Reportable Quantity

Ingredients:	CAS-No:	Component RQ (lbs):	Calculated Product RQ (lbs):
Acetic Acid	64-19-7	5000	*
Acetic Anhydride	108-24-7	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 302/304

Composition/Information On Ingredients:

This material does not contain any components with a section 304 EHS RQ. No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 304 Rq:

Not applicable.

SARA 311/312

**Classification:
Composition/Information On Ingredients:**

Not applicable.
No SARA Hazards

SARA 313

Composition/Information On Ingredients:

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

SARA 313 notifications must not be detached from the SDS; and, any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State Regulations

Pennsylvania right to _____ Dimethyl siloxane, hydroxyl terminated 70131-67-8 70 - 90 %

know:	Silicon dioxide	7631-86-9	5 - 10 %	
	Polydimethylsiloxane	63148-62-9	<=8.0 %	
	Distillates (petroleum), hydrotreated middle	64742-46-7	5 - 10 %	
	Iron oxide	1332-37-2	<=3.2%	
	Titanium dioxide	13463-67-7	<=2.2%	
	Aluminium	7429-90-5	<=1.6%	
	Acetic acid	64-19-7	0 – 0.1%	
	Acetic anhydride	108-24-7	0 - 0.1 %	
	New Jersey Right To Know:	Dimethyl siloxane, hydroxy-terminated	70131-67-8	70 - 90 %
		Silicon dioxide	7631-86-9	5 - 10 %
		Polydimethylsiloxane	63148-62-9	<=8.0 %
Distillates (petroleum), hydrotreated middle		64742-46-7	5 - 10 %	
	Iron oxide	1332-37-2	<=3.2%	
	Titanium dioxide	13463-67-7	<=2.2%	
	Aluminium	7429-90-5	<=1.6%	
	Carbon black	1333-86-4	<=0.4%	
California Prop. 65:	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.			

International Regulations

International Lists:

Australia inventory (AICS): All ingredients listed or exempt.
China inventory (IECSC): All ingredients listed or exempt.
Phillipines inventory (PICCS): All ingredients listed or exempt.
Canada inventory (DSL): All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).
European inventory (REACH): All ingredients (pre-)registered or exempt.
USA inventory (TSCA): All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SECTION 16 Other Information

Hazardous Material Information System (U.S.A.)

Health: 1

Flammability: 1

Physical Hazards: 0

National Fire Protection Association (U.S.A.)

Health: 1

Flammability: 1

Instability: 0

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