

PRODUCT NAME: ABRO Silicone Sealant White  
PRODUCT NUMBER/SIZE: SS-1200-WHT-290

Revision Date: 06/16/2015

## 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  
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
Titanium dioxide	>=1 - <5	13463-67-7

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

<b>Eye contact:</b>	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
<b>Inhalation</b>	If inhaled, remove to fresh air.
<b>Skin contact:</b>	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
<b>Ingestion</b>	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:**

<b>Eye contact:</b>	No known significant effects or critical hazards.
<b>Inhalation:</b>	No known significant effects or critical hazards.
<b>Skin contact:</b>	No known significant effects or critical hazards.
<b>Ingestion:</b>	No known significant effects or critical hazards.

#### **Over-exposure signs/symptoms:**

<b>Eye contact:</b>	No known significant effects or critical hazards.
<b>Inhalation:</b>	No known significant effects or critical hazards.
<b>Skin contact:</b>	No known significant effects or critical hazards.
<b>Ingestion:</b>	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 (CO<sub>2</sub>)

**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 <sup>3</sup> / %SiO <sub>2</sub> (Silica) (OSHA) TWA: 6 mg/m <sup>3</sup> (Silica) (NIOSH)
Distillates (petroleum), hydrotreated middle (CAS: 64742-46-7)	TWA (Inhalation): 5 mg/m <sup>3</sup> (OSHA) TWA (Inhalation): 5 mg/m <sup>3</sup> (OSHA) TWA (Inhalation): 5 mg/m <sup>3</sup> (NIOSH) ST (Inhalation): 10 mg/m <sup>3</sup> (NIOSH)
Titanium dioxide (CAS 13463-67-7)	TWA (total dust): 15mg/m <sup>3</sup> OSHA TWA (total dust): 10mg/m <sup>3</sup> ACGIH

**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**

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

## SECTION 10 Stability and Reactivity

<b>Reactivity:</b>	Not classified as a reactivity hazard.
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions:</b>	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.
<b>Conditions To Avoid:</b>	None known.
<b>Incompatible Materials:</b>	Oxidizing agents
<b>Hazardous Decomposition Products:</b>	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

Titanium dioxide:

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

Acute inhalation toxicity : LC50 (Rat): > 6.82 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity

**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.

Titanium dioxide:

Species: Rabbit

Result: No skin irritation

**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.

Titanium dioxide:

Species: Rabbit

Result: No eye irritation

**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.

Titanium dioxide:

Test Type: Local lymph node assay (LLNA)

Routes of exposure: Skin contact

Species: Mouse

Result: negative

**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.

Titanium dioxide:  
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative  
Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse  
Result: negative

**Carcinogenicity:**

Not classified based on available information.

Ingredients:  
Titanium dioxide:  
Species: Rat  
Application Route: inhalation (dust/mist/fume)  
Exposure time: 24 Months  
Method: OECD Test Guideline 453  
Result: positive  
Remarks: The mechanism or mode of action may not be relevant in humans.  
The substance is inextricably bound in the product and therefore does not contribute to a dust inhalation hazard.

Carcinogenicity - Assessment: Limited evidence of carcinogenicity in inhalation studies with animals.

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.



<b>Specific Target Organ Toxicity (Single Exposure):</b>	Not classified based on available information.
<b>Specific Target Organ Toxicity (Repeated Exposure):</b>	STOT-repeated exposure: Not classified based on available information.
<b>Repeated Dose Toxicity:</b>	Ingredients: Titanium dioxide: Species: Rat NOAEL: 24,000 mg/kg Application Route: Ingestion Exposure time: 28 d Species: Rat NOAEL: 10 mg/m <sup>3</sup> Application Route: inhalation (dust/mist/fume) Exposure time: 2 y Remarks: The substance is inextricably bound in the product and therefore does not contribute to a dust inhalation hazard.
<b>Aspiration Hazard:</b>	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.
<b><u>Potential Acute Health Effects</u></b>	
<b>Eye Contact:</b>	Not available.
<b>Inhalation:</b>	Not available.
<b>Skin Contact:</b>	Not available.
<b>Ingestion:</b>	Not available.
<b><u>Symptoms Related To The Physical, Chemical, And Toxicological Characteristics</u></b>	
<b>Eye Contact:</b>	Not available.
<b>Inhalation:</b>	Not available.
<b>Skin Contact:</b>	Not available.
<b>Ingestion:</b>	Not available.
<b><u>Delayed And Immediate Effects And Also Chronic Effects From Short- And Long-Term Exposure</u></b>	
<b><u>Short-Term Exposure:</u></b>	
<b>Potential Immediate Effects:</b>	Not available.
<b>Potential Delayed Effects:</b>	Not available.
<b><u>Long-Term Exposure:</u></b>	
<b>Potential Immediate Effects:</b>	Not available.
<b>Potential Delayed Effects:</b>	Not available.
<b><u>Potential Chronic Health Effects</u></b>	
<b>General:</b>	Not available.
<b>Carcinogenicity:</b>	Not available.
<b>Mutagenicity:</b>	Not available.
<b>Teratogenicity:</b>	Not available.
<b>Developmental Effects:</b>	Not available.
<b>Fertility Effects:</b>	Not available.

**Numerical Measures Of Toxicity**

**Acute Toxicity Estimates**

**ROUTE:**

Not available.

**ATE VALUE**

Not available.

**SECTION 12**  
**Ecological Information**

**Toxicity**

**Product/Ingredient Name**

Titanium dioxide

**Method/Species**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l

Exposure time: 72 h

Toxicity to bacteria : EC50: > 1,000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

**Persistence And Degradability:**

No data available

**Bioaccumulative Potential:**

No data available

**Mobility In Soil:**

**Soil/Water Partition Coefficient (K<sub>oc</sub>):**

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:**

Not applicable.

**Composition/Information On Ingredients:**

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 know:**

Dimethyl siloxane, hydroxyl terminated	70131-67-8	70 - 90 %
Silicon dioxide	7631-86-9	5 - 10 %
Distillates (petroleum), hydrotreated middle	64742-46-7	5 - 10 %
Acetic acid	64-19-7	0 - 0.1%
Titanium dioxide	13463-67-7	<=2.2%
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 %
Distillates (petroleum), hydrotreated middle	64742-46-7	5 - 10 %
Titanium dioxide	13463-67-7	<=2.2%

**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

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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