PRODUCT NAME: **ABRO Silicone Gasket Maker Blue**
PRODUCT NUMBER/SIZE: **10-AB / 3 oz.** **Revision Date: 10/12/2015**

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

Hazardous components

1. Silicon dioxide
Concentration >= 5 - < 10 % (Weight)

CAS no. 7631-86-9

2. Distillates (petroleum), hydrotreated middle
Concentration >= 5 - < 10 % (Weight)
CAS no. 64742-46-7

3. Titanium dioxide
Concentration >= 1 - < 5 % (Weight)
CAS no. 13463-67-7

4. Aluminum
Concentration >= 1 - < 5 % (Weight)
CAS no. 7429-90-5

5. Carbon Black
Concentration >= 0.1 - < 1 % (Weight)
CAS no. 1333-86-4

SECTION 4
First Aid Measures

Description of Necessary First Aid Measures

General Advice:	Notes to physician: Treat symptomatically and supportively.
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.
Personal protective equipment for first-aid responders	No special precautions are necessary for first aid responders.

Most important symptoms/effects (Acute and delayed)

Potential acute health effects:
None known

SECTION 5
Fire Fighting Measures

Extinguishing media

Suitable extinguishing media:	Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO2)
Specific hazards arising from the chemical:	Exposure to combustion products may be a hazard to health.
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. Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.
Hazardous Combustion Products:	Carbon oxides Silicon oxides Formaldehyde Metal oxides

SECTION 6
Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

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

Soak up with inert absorbent material.
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.

Reference to other sections

Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

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.

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

Ingredient name:	Exposure limits:
Silicon dioxide (CAS: 7631-86-9)	TWA (Inhalation): 20 million particles per cubic foot (Silica) (OSHA) TWA (Inhalation): 80 mg/m3 / %SiO2 (Silica) (OSHA) TWA: 6 mg/m3 (Silica) (NIOSH)
Distillates (petroleum), hydrotreated middle (CAS: 64742-46-7)	TWA (Inhalation): 5 mg/m3 (OSHA) TWA (Inhalation): 5 mg/m3 (OSHA) TWA (Inhalation): 5 mg/m3 (NIOSH) ST (Inhalation): 10 mg/m3 (NIOSH)
Titanium dioxide (CAS 13463-67-7)	TWA (total dust): 15mg/m3 OSHA TWA (total dust): 10mg/m3 ACGIH
Aluminum (CAS 7429-90-5)	TWA (Respirable): 5 mg/m3 (NIOSH REL) TWA (total): 10 mg/m3 (NIOSH REL) TWA (total dust): 15 mg/m3 (OSHA Z-1) TWA (respirable fraction): 5 mg/m3 (OSHA Z-1) TWA (pyro powders): 5 mg/m3 (NIOSH REL) TWA (respirable fraction): 1 mg/m3 (ACGIH)
Carbon black (CAS 1333-86-4)	TWA 3.5 mg/m3 (NIOSH REL) TWA 3.5 mg/m3 (OSHA Z-1) TWA (Inhalable fraction) 3.5 mg/m3 (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

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.

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
Color:	Blue
Odor:	Acetic acid
Odor Threshold:	No data available.
Ph:	Not available.
Melting Point/Freezing Point:	No data available.
Boiling Point:	Not available.
Flash Point:	>100 degrees C closed cup
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 (ies):	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

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 Aluminum: Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 Remarks: Based on data from similar materials Acute inhalation toxicity: LC50 (Rat) > 0.888 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity Carbon Black: Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg Acute inhalation toxicity: LC50 (Rat) > 0.0046 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.
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.

SECTION 12
Ecological Information

Toxicity:	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

Safety, health and environmental regulations specific for the product in question

EPCRA - Emergency Planning and Community Right-to-Know
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 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ**.**

SARA 311/312 Hazards
No SARA Hazards

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

SARA 313 Components
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

US State Regulations

Pennsylvania 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 %
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%
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 %
Dimethyl siloxane, trimethylsiloxy-terminated 63148-62-9 1 - 5 %
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.

The ingredients of this product are reported in the following inventories:

AICS :	All ingredients listed or exempt.
IECSC :	All ingredients listed or exempt.
PICCS :	All ingredients listed or exempt.
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).
REACH :	All ingredients (pre-)registered or exempt.
TSCA :	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

Inventories
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), NECSI (Taiwan), TSCA (USA)

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"	BT="BETWEEN"
<="LESS THAN"	>="GREATER THAN"
ND = Not Determined	NA = Not Applicable

Full text of other abbreviations

NIOSH REL :	USA. NIOSH Recommended Exposure Limits
OSHA P0 :	USA. OSHA - TABLE Z-1 Limits for Air Contaminants -1910.1000
OSHA Z-1 :	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limitsfor Air Contaminants
OSHA Z-3 :	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
NIOSH REL / TWA :	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST :	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA :	8-hour time weighted average
OSHA Z-1 / TWA :	8-hour time weighted average
OSHA Z-3 / TWA :	8-hour time weighted average