

PRODUCT NAME: ABRO Russian Silicone Gasket Maker

Grey 999

PRODUCT NUMBER/SIZE: 9-AB-42-R / 1.5 oz. Revision Date: 06/23/2015

SECTION 1

Identification of the Substance and of the Company/Undertaking

MANUFACTURER'S NAME: ABRO INDUSTRIES, INC.

3580 Blackthorn Court ADDRESS:

South Bend, IN 46628

USA

PRODUCT DESCRIPTION: **Grey Oxime 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:

Sensitization, skin (chapter 3.4), Cat. 1 Specific target organ toxicity, repeated exposure (chapter 3.9), Cat. 2

Label Pictogram(s):



Signal Word: WARNING

May cause an allergic skin reaction. May cause damage to organs through **Hazard Phrases:**

prolonged or repeated exposure.

Precautionary

Do not breathe dust/fume/gas/mist/vapours/spray. Contaminated work clothing Phrases:

should not be allowed out of the workplace. Wear protective gloves/protective

clothing/eye protection/face protection.

Response: IF ON SKIN: Wash with plenty of water. If skin irritation or a rash occurs: Get

medical advice/attention. Wash contaminated clothing before reuse. Get medical

advice/attention if you feel unwell.

Storage / Disposal: Dispose of contents/ container in compliance with local and federal regulations.

Other: Keep out of reach of children.



SECTION 3 Composition/Information on Ingredients

Hazardous components

1. Calcium carbonate (Natural)

Concentration >= 35 - <= 50 % (Weight)

Other names / synonyms Agricultural limestone; limestone; Marble chips; Natural

calcium carbonate

CAS no. 1317-65-3

2. 2-Butanone, 2,2',2"-[O,O',O"-(ethenylsilylidyne)trioxime]

Concentration >= 0.1 - < 4 % (Weight)

Other names / synonyms Vinyl tris (methylethylketoxime)

CAS no. 2224-33-1

3. 2-Butanone, 2,2',2"-[O,O',O"-(methylsilylidyne)trioxime]

Concentration >= 0.1 - < 3 % (Weight)

Other names / synonyms Methyl tris (methylethylketoxime)

CAS no. 22984-54-9

4. Silica

Concentration >= 1 - < 10 % (Weight)

Other names / synonyms Siliceous earth, purified

CAS no. 7631-86-9

5. 3-AMINOPROPYLTRIETHOXYSILANE

Concentration >= 0.1 - < 1 % (Weight)

Other names / synonyms (3-Aminopropyl)triethoxysilane: 1-Propanamine, 3-

(triethoxysilyl)-; 3-Triethoxysilylpropylamine; APTES

EC no. 213-048-4 CAS no. 919-30-2 Index no. 612-108-00-0

111d X 110.

6. 1-Propanamine, 3-(trimethoxysilyl)-

Concentration >= 0.1 - < 1 % (Weight)

CAS no. 13822-56-5

SECTION 4
First Aid Measures

Description of Necessary First Aid Measures

General Advice: In the case of accident or if you feel unwell, seek medical advice immediately.

When symptoms persist or in all cases of doubt seek medical advice.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms occur.



Skin contact: In case of contact, immediately flush skin with soap and plenty of water.

Remove contaminated clothing and shoes. Get medical attention. Wash

clothing before reuse. Thoroughly clean shoes before reuse.

Eye contact: Flush eyes with water as a precaution. Get medical attention if irritation

develops and persists.

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:

First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure

exists.

Most important symptoms/effects (Acute and delayed)

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated exposure if swallowed.

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

Notes to physician: Treat symptomatically and supportively.

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:

Special protective actions for

fire-fighters:

Exposure to combustion products may be a hazard to health.

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. 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.

Further information: Hazardous combustion products:

Carbon oxides Metal oxides Silicon oxides Formaldehyde

Nitrogen oxides (NOx)

SECTION 6 Accidental Release Measures

Personal precautions, protective equipment,

and emergency procedures:

Use personal protective equipment.

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.

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

Technical measures: See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation: Use only with adequate ventilation.

Advice on safe

handling:

Do not get on skin or clothing. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Keep away from water. Protect from moisture. 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.

Materials to avoid: Do not store with the following product types: Strong oxidizing agents

SECTION 8 Exposure Controls/Personal Protection

Control parameters

1. Calcium Carbonate (CAS: 1317-65-3)

PEL (Inhalation): see PNOR (Cal/OSHA) OSHA Annotated Table Z-1, www.osha.gov

2. Calcium Carbonate, Total dust (CAS: 1317-65-3)

PEL (Inhalation): 15 mg/m3 (OSHA)

OSHA Annotated Table Z-1, www.osha.gov



3. Calcium Carbonate, Total dust (CAS: 1317-65-3)

PEL (Inhalation): 10 mg/m3 (Cal/OSHA) OSHA Annotated Table Z-1, www.osha.gov

4. Calcium Carbonate, Total dust (CAS: 1317-65-3)

REL (Inhalation): 10 mg/m3 (NIOSH) OSHA Annotated Table Z-1, www.osha.gov

5. Calcium Carbonate, Respirable fraction (CAS: 1317-65-3)

PEL (Inhalation): 5 mg/m3 (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

6. Calcium Carbonate, Respirable fraction (CAS: 1317-65-3)

PEL (Inhalation): 5 mg/m3 (Cal/OSHA) OSHA Annotated Table Z-1, www.osha.gov

7. Calcium Carbonate, Respirable fraction (CAS: 1317-65-3)

REL (Inhalation): 5 mg/m3 (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

8. Limestone (CAS: 1317-65-3)

PEL (Inhalation): see PNOR (Cal/OSHA) OSHA Annotated Table Z-1, www.osha.gov

9. Limestone, Total dust (CAS: 1317-65-3)

PEL (Inhalation): 15 mg/m3 (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

10. Limestone, Total dust (CAS: 1317-65-3)

PEL (Inhalation): 10 mg/m3 (Cal/OSHA) OSHA Annotated Table Z-1, www.osha.gov

11. Limestone, Total dust (CAS: 1317-65-3)

REL (Inhalation): 10 mg/m3 (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

12. Limestone, Respirable fraction (CAS: 1317-65-3)

PEL (Inhalation): 5 mg/m3 (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

13. Limestone. Respirable fraction (CAS: 1317-65-3)

PEL (Inhalation): 5 mg/m3 (Cal/OSHA) OSHA Annotated Table Z-1, www.osha.gov

14. Limestone, Respirable fraction (CAS: 1317-65-3)

REL (Inhalation): 5 mg/m3 (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

15. Marble (CAS: 1317-65-3)

PEL (Inhalation): See PNOR (Cal/OSHA) OSHA Annotated Table Z-1, www.osha.gov

16. Marble, Total dust (CAS: 1317-65-3)

PEL (Inhalation): 15 mg/m3 (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

17. Marble, Total dust (CAS: 1317-65-3)

PEL (Inhalation): 10 mg/m3 (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov



18. Marble, Total dust (CAS: 1317-65-3)

REL (Inhalation): 10 mg/m3 (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

19. Marble, Respirable fraction (CAS: 1317-65-3)

PEL (Inhalation): 5 mg/m3 (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

20. Marble, Respirable fraction (CAS: 1317-65-3)

PEL (Inhalation): 5 mg/m3 (Cal/OSHA) OSHA Annotated Table Z-1, www.osha.gov

21. Marble, Respirable fraction (CAS: 1317-65-3)

REL (Inhalation): 5 mg/m3 (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

Appropriate engineering

controls:

Processing may form hazardous compounds (see section 10).

Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

Individual protection measures

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

Skin protection: Select appropriate protective clothing based on chemical resistance

data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc). Hygiene measures: Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require

added precautions.

Body protection: Impervious gloves. Choose gloves to protect hands against chemicals

depending on the concentration specific to place of work.

Breakthrough time is not determined for the product. Change gloves

often! For special applications, we recommend clarifying the

resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of

workday.

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

Information on basic physical and chemical properties

Appearance/form:

Odor:

Paste
Slight

Odor Threshold:

Ph:

Not applicable

Melting Point/Freezing Point:

Initial Boiling Point and Boiling Range:

Flash Point:

Evaporation Rate:

Not applicable

Not applicable

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: 1.41

Solubility (ies):

Partition Coefficient: N-Octanol/Water:

Auto-Ignition Temperature:

Decomposition Temperature:

Viscosity:

No data available.

No data available.

No data available.

No data available.

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

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Use at elevated temperatures may form highly hazardous compounds.

Reactions: Can react with strong oxidizing agents. Hazardous decomposition

products will be formed upon contact with water or humid air.

Hazardous decomposition products will be formed at elevated

temperatures.

Conditions To Avoid: Exposure to moisture. **Incompatible Materials:** Oxidizing agents. Water.

Hazardous Decomposition Contact with water or humid air: Ethyl methyl ketoxime

Products: Thermal decomposition : Formaldehyde

SECTION 11 Toxicological Information

Information on Toxicological Effects

Acute Toxicity: Not classified based on available information.

Acute oral toxicity: Acute toxicity estimate: > 5,000

mg/kg Method: Calculation method

Ingredients:

Calcium carbonate:



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

Method: OECD Test Guideline 420

Assessment: The substance or mixture has no

acute oral toxicity

Acute inhalation toxicity: LC50 (Rat): > 3 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

Acute dermal toxicity: LD50 (Rabbit): > 2,000

mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no

acute dermal toxicity

Amorphous fumed silica:

Acute oral toxicity: LD50 (Rat): > 20,000 mg/kg Assessment: The substance or mixture has no

acute oral toxicity

Remarks: Information taken from reference works

and the literature.

Vinyltri (methylethylketoxime) silane:

Acute oral toxicity: LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no

acute oral toxicity

Remarks: Based on test data

Acute dermal toxicity: LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no

acute dermal toxicity

Remarks: Based on test data

Methyltri(ethylmethylketoxime)silane:

Acute oral toxicity: LD50 (Rat): > 2,520 mg/kg Assessment: The substance or mixture has no

acute oral toxicity

Remarks: Based on test data

3-Aminopropyltriethoxysilane:

Acute oral toxicity: LD50 (Rat): 2,295 mg/kg

Remarks: Based on test data

Acute inhalation toxicity: LC50 (Rat): > 1.49 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Remarks: Based on test data

Acute dermal toxicity: LD50 (Rabbit): > 2,000

mg/kg

Assessment: The substance or mixture has no

acute dermal toxicity

Remarks: Based on test data

Skin corrosion/irritation:

Not classified based on available information.



Serious eye damage/irritation: Not classified based on available information.

Respiratory or skin sensitization: Skin sensitization: Not classified based on available

information.

Respiratory sensitization: Not classified based on

available information.

Germ cell mutagenicity:Not classified based on available information.

Carcinogenicity: Not classified based on available information.

Reproductive toxicity: Not classified based on available information.

STOT-single exposure Not classified based on available information.

STOT-repeated exposureMay cause damage to organs (Blood) through prolonged or repeated exposure if swallowed.

Methyltri(ethylmethylketoxime)silane:

Routes of exposure: Ingestion

Target Organs: Blood

Assessment: Shown to produce significant health effects in animals at concentrations of >10 to 100

mg/kg bw.

Vinyltri (methylethylketoxime) silane:

Routes of exposure: Ingestion

Target Organs: Blood

Assessment: Shown to produce significant health effects in animals at concentrations of >10 to 100

mg/kg bw.

Aspiration Hazard: Not classified based on available information.

Additional information Information on likely routes of exposure

Skin contact Ingestion Eye contact

Product:

Remarks: During use of the material, small amounts of methylethylketoxime (MEKO) will be

released.

Rodents exposed to chronic MEKO inhalation throughout their lifetimes showed significant

increases in liver tumor rates.

SECTION 12 Ecological Information

Toxicity

Calcium carbonate:

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

Method: OECD Test Guideline 202

Toxicity to algae: ErC50 (Desmodesmus subspicatus (green algae)): > 14 mg/l

Methyltri(ethylmethylketoxime)silane:

Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 120 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: Based on data from similar materials

Toxicity to algae: ErC50 (Selenastrum capricornutum (green algae)): 94 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

Ecotoxicology Assessment

Acute aquatic toxicity: This product has no known ecotoxicological effects.

3-Aminopropyltriethyoxysilane:

Toxicity to fish: LC50 (Danio rerio (zebra fish)): 597 mg/l

Exposure time: 96 h

Method: Directive 67/548/EEC, Annex V, C.1. Toxicity to daphnia and other aquatic invertebrates

: EC50 (Daphnia sp.): 81 mg/l

Exposure time: 48 h

Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae: ErC50 (Selenastrum capricornutum (green algae)): 8.8 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Selenastrum capricornutum (green algae)): 3.1 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC (Daphnia sp.): > 1 mg/l

Exposure time: 21 d

Toxicity to bacteria: EC50 (Pseudomonas putida): 67 mg/l

Exposure time: 16 h

Test Type: Growth inhibition Method: DIN 38 412 Part 8

Persistence and degradability

Methyltri(ethylmethylketoxime)silane:

Biodegradability: Result: Not readily biodegradable.

Biodegradation: 14.5 % Exposure time: 21 d

Method: OECD Test Guideline 302B

Remarks: Based on data from similar materials

3-Aminopropyltriethyoxysilane:

Biodegradability: Result: Not readily biodegradable.

Biodegradation: 39 %

Method: OECD Test Guideline 301A



Stability in water: Degradation half-life: 0.025 h (24.7 °C) pH: 7

Method: OECD Test Guideline 111

Vinyltri (methylethylketoxime) silane:

Biodegradability: Result: Not readily biodegradable.

Stability in water: Degradation half-life: 1 s

Bioaccumulative potential

Methyltri(ethylmethylketoxime)silane:

Partition coefficient: noctanol/water: log Pow: 11.2

3-Aminopropyltriethyoxysilane:

Partition coefficient: n- octanol/water: log Pow: -0.3

Mobility in soil

No data available

Results of PBT and vPvB assessment

No data available

Other adverse effects

No data available

SECTION 13 Disposal Considerations

Disposal of the Resource Conservation and Recovery Act (RCRA):

product: 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.

Waste treatment:

Sewage disposal: No data

SECTION 14 Transport Information

DOT (US):

IMDG:

Not dangerous goods

IATA:

Not dangerous goods

No data

SECTION 15 Regulatory Information

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

New Jersey Right to Know Components Common name: CALCIUM CARBONATE



CAS number: 1317-65-3

Pennsylvania Right to Know Components

Chemical name: Limestone CAS number: 1317-65-3

Chemical name: Silica CAS number: 7631-86-9

Chemical Safety Assessment

California Prop 65 WARNING: This product contains a chemical known in the State of California to cause

birth defects or other reproductive harm. Methanol 67-56-1

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

KECI: All ingredients listed, exempt or notified.

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. 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).

Inventories

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

HMIS Rating

Health	2
Flammability	1
Physical hazard	0
Personal protection	

NFPA Rating

Health hazard	2
Fire hazard	1
Reactivity hazard	0
Special hazard	

SECTION 16 Other Information

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