

MATERIAL SAFETY DATA SHEET

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Barristo Enterprises
3717 N Ravenswood Suite 243
Chicago IL 60613

24 Hour Emergency Telephone Numbers:
(800) 424 9300 - DOMESTIC
(703) 527 3887 - INTERNATIONAL

1. PRODUCT IDENTIFICATION

PRODUCT NAME: ROUSH 3 in 1 Gasket Maker

PRODUCT DESCRIPTION: One component silicone rubber compound

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: Product generates MEKO upon contact with water or humid air. Irritating to eyes, respiratory system and skin. May cause sensitization. Possible cancer hazard.

POTENTIAL HEALTH EFFECTS

EYES: direct contact may cause slight irritation with redness and swelling

SKIN: repeated or prolonged contact with skin may cause slight irritation leading to dermatitis. Product contains oximes which are possible skin sensitizers

INGESTION: not a likely route of entry. Swallowing small amounts should not cause injury. Swallowing large amounts may cause internal injury

INHALATION: overexposure to the vapor of the curing by product, MEKO, can cause drowsiness and may irritate nose and throat.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

ACUTE TOXICITY: overexposure to MEKO can cause drowsiness, blood and liver injury and may irritate the nose and throat.

CARCINOGENICITY: this product contains materials which are shown to be carcinogenic.

SENSITIZATION: product contains oximes which are possible skin sensitizers

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	WT.%	CAS
Siloxanes and silicones and other non hazardous material	40-60	n/a
Calcium Carbonate	29-32	000471-34-1
Quartz	14-17	014808-60-7
Silane dichloromethyl – reaction products with silica	4-7	068611-44-9
2-Butanone	2-5	002224-33-1
Titanium Dioxide	<1	013463-67-7
Carbon Black	<0.1	001333-86-4

4. FIRST AID MEASURES

EYES: immediately flush eyes with plenty of water for at least 15 mins. Get immediate medical attention

SKIN: remove product from skin. Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse

INGESTION: rinse mouth well with water. Never give an unconscious person anything to ingest. Do not induce vomiting unless directed to do so by medical personnel. See immediate medical attention

INHALATION: remove to fresh air. If not breathing give artificial respiration or give oxygen by trained personnel. If signs persist, seek medical attention.

5. **FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA: use dry chemical powder, carbon dioxide, water for or foam

HAZARDOUS COMBUSTION PRODUCTS: carbon oxides. Traces of incompletely burned carbon compounds. Silicon dioxide. Nitrogen oxides. Formaldehyde. Metal oxides

OTHER CONSIDERATIONS: may burn in the presence of sparks or open flames

FIRE FIGHTING PROCEDURES: as in any fire, wear self contained breathing apparatus pressure-demand. (MSHA/NIOSH approved) and full protective gear

HAZARDOUS DECOMPOSITION PRODUCTS: product generates MEKO upon contact with water of humid air

6. **ACCIDENTAL RELEASE MEASURES**

SMALL SPILL: use appropriate tools to put the spilled solid in a waste disposal container

LARGE SPILL: wear proper protective equipment. Stop spill or leak at source. Use appropriate tools to put spilled material in a waste container.

RELEASE NOTES: keep spilled material from entering storm drains, sewers, or other environmental mediums

COMMENTS: disposal of clean up materials may be governmentally regulated. Observe all applicable local, state and federal waste management regulations

7. **HANDLING AND STORAGE**

HANDLING: avoid contact with eyes and skin. This material is potential skin sensitizer. Wear appropriate protective equipment. Use with adequate ventilation. Wash hands with soap and water after handling

STORAGE: keep container closed when not in use. Store in a cool, dry, well ventilated area. Store away from heat, sources of ignition, water, or moisture.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		Ppm	Mg/m ³	ppm	Mg/m ³
Quartz	TWA	*1	*1	NL	0.025
Titanium Dioxide	TWA	NL	15	NL	10
Carbon Black	TWA	NL	3.5	NL	3.5
OSHA TABLE COMMENTS * Quartz: OSHA PEL: 250 Mppcf / %SiO ₂ +5 (Respirable Dust). 10mg/m ³ /%SiO ₂ +2 (Respirable Dust). 30 mg/m ³ (Total Dust) NIOSH REL: TWA 0.05 mg/m ³ (Respirable Dust)					

ENGINEERING CONTROLS: local exhaust ventilation may be necessary to control any air contaminants to within their TLV's during the use of this product

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: safety glasses

SKIN: gloves (impervious)

RESPIRATORY: incase of insufficient ventilation, wear suitable respiratory equipment

PROTECTIVE CLOTHING: chemically impervious clothing should be worn if potential for skin contact

WORK HYGENIC PRACTICES: wash hands before eating, smoking, or using restroom. Food beverages should not be consumed anywhere this product is handled or stored. Wash hands thoroughly after handling

OTHER USE PERCAUTIONS: facilities storing this material should be equipped with an eyewash station

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: paste

ODOR: Oxime

COLOR: Gray

VAPOR PRESSURE: negligible

VAPOR DENSITY: >1

DENSITY: 12.34 lbs/gal

SPECIFIC GRAVITY: 1.480

(VOC): 0.420 lb/gal EPA Method 24. Weight Loss Determination

10. STABILITY AND REACTIVITY

STABILITY: stable at room temperature in closed containers under normal storage and handling conditions

POLYMERIZATION: will not occur

CONDITIONS TO AVOID: contact with water, moisture, or humid air causes curing and MEKO vapors form gradually

HAZARDOUS DECOMPOSITION PRODUCTS: carbon oxides. Traces of incompletely burned carbon products. Formaldehyde. Metal oxides. Silicon dioxide.

Product generates MEKO upon contact with water or humid air

11. **TOXICOLOGICAL INFORMATION**

ACUTE

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (rabbit)
Calcium carbonate	6450 mg/kg	500 mg
Titanium dioxide	6450 mg/kg	
Carbon black	>8000 mg/kg	

CHRONIC: MEKO – Liver carcinomas were observed in a lifetime inhalation study (ca. 2yrs) in which mice and rats were exposed. These carcinogens were statistically increased in males at MEKO concentration of 375ppm. Relevance to humans uncertain.

Degenerative effects on the olfactory epithelium of nasal passages occurred in male and female mice and rats at MEKO concentrations of 15, 75, and 375 ppm

SUBCHRONIC: QUATRZ- Prolonged inhalation of quartz may result in silicosis, a disabling pulmonary fibrosis characterized by fibrotic changes and military nodules in the lungs, a dry cough, shortness of breath, emphysema, decreased chest expansion, and increased susceptibility to tuberculosis. In advanced stages, loss of appetite, pleuritic pain, and total incapacity to work. Advanced silicosis may result in death due to cardiac failure or destruction of lung tissue. Through use of this product, exposure to inhalable, airborne dust is unlikely because these particles as solid filler are suspended, or wetted out, in the uncured product. Once the product is fully cured, solid particle fillers are contained within the polymer matrix and their dust will not be generated under normal conditions of the use of this product. Therefore the potential carcinogenic risks to humans using this product is considered to be small.

CARCINOGENICITY

Chemical Name	NTP Status	IARC Status	Other
Quartz	K	1	ACGIH: A2
Titanium Dioxide		3	ACGIH: A4
Carbon Black		2B	ACGIH: A4

Notes: ACGIH: A2: suspected human carcinogen.

ACGIH: A4: not classifiable as a human carcinogen

SENSITIZATION: product contains oximes which are possible skin sensitizers

TARGET ORGANS: Carbon Black – target organs: Lungs. Effects include inflammation, fibrosis, tumors. Chronic toxicity found in rats. Tumors in the rat lung are related to the fine particle overload phenomenon rather than to a specific chemical effect of the dust particle in the lung. These effects in the rats have been reported in studies on other inorganic insoluble particles and appear to be species specific. Tumors have not been observed in other species for carbon black under similar circumstances and study conditions. Exposure to airborne carbon black dust is unlikely due to product matrix.

MUTAGENICITY: MEKO- mutagenic and tumorigenic effects have been observed in tests with laboratory animals. Relevance to humans is unknown.

Rat, inhalation, TC50:>4.8mg/L (MEKO)

Rat, oral, LD50: 4mL/kg (MEKO)

12. **ECOLOGICAL INFORMATION**

COMMENTS: N/A

13. **DISPOSAL CONSIDERATIONS**

DISPOSAL METHOD: waste must be disposed of in accordance with federal, state, and local environmental control regulations. Consult your licensed waste contractor for detailed recommendations.

14. **TRANSPORT INFORMATION**

DOT (DEPARTMENT OF TRANSPORTATION)

SPECIAL SHIPPING NOTES: not a DOT controlled material (USA)

AIR (ICAO/IATA)

NOTE: not a IATA controlled material

VESSEL (IMO/IMDG)

NOTE: not an IMDG controlled material

15. **REGULATORY INFORMATION**

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

REACTIVITY: yes ACUTE: yes CHRONIC: yes

313 REPORTABLE INGREDIENTS: no products were found above de minimis levels.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: all ingredients in this mixture are in compliance with TSCA

STATES WITH SPECIAL REQUIREMENTS

Chemical Name	Requirements
Quartz	This product contains a component or components listed on the Massachusetts Right to Know list of hazardous substances. This product contains a component or components listed on the Pennsylvania Right to Know list of hazardous substances .
Titanium Dioxide	This product contains a component or components listed on the Massachusetts Right to Know list of hazardous substances. This product contains a component or components listed on the Pennsylvania Right to Know list of hazardous substances .
Carbon Black	This product contains a component or components listed on the Massachusetts Right to Know list of hazardous substances. This product contains a component or components listed on the Pennsylvania Right to Know list of hazardous substances .

CALIFORNIA PROPOSITION 65

Chemical Name	Wt. %	Listed
Carbon Black	<0.1	Cancer

16. OTHER INFORMATION

INFORMATION CONTACT : (773) 525 1801

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