

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: PERMATEX® #16 Black Silicone Adhesive Sealant -

12.9 oz. cartridge

Product Code: 81173 Stock No.: 81173 Manufacturer Name: Permatex, Inc. Address: 10 Columbus Blvd Hartford, CT 06106

USA

General Phone Number: 1-87-Permatex, (877) 376-2839

Emergency Phone

Number:

800-255-3924

For emergencies in the US, call CHEMTREC: 800-424-CHEMTREC:

MSDS Creation Date: September 27, 2010 MSDS Revision Date: December 30, 2012

(M)SDS Format:



# SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Carbon black	1333-86-4	< 3 by weight
Ethyl methyl ketoxime	96-29-7	0.5 - 2.0 by weight
Ethyl methyl keto×ime	70131-67-8	30 - 50 by weight
Distillates (petroleum), hydrotreated light; Kerosine - unspecified	64742-47-8	< 5 by weight
2-Butanone, O,O',O''-(ethenylsilylidyne)trioxime	2224-33-1	< 5 by weight
Polybutylene	9003-29-6	5 - 20 by weight
Calcium Carbonate	471-34-1	15 - 40 by weight
Limestone	1317-65-3	20 - 40 by weight

### SECTION 3: HAZARDS IDENTIFICATION

CAUTION! Harmful. Irritant. Handle with care. Contents are under Emergency Overview: pressure. Excessive pressure and temperature will cause over pressurization and result in container bursting or exploding.

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Eye: Can cause moderate irritation, burning sensation, tearing, redness,

and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.

Skin: Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling.

Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects. Inhalation:

Indestion: Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

Chronic Health Effects: Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.

Signs/Symptoms: Overexposure can cause headaches, dizziness, nausea, and vomiting.

Eyes. Skin. Respiratory system. Digestive system. Target Organs:

Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product. Aggravation of Pre-Existing

Conditions:

# SECTION 4: FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20

minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20

minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation:

If inhaled, remove to fresh air If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate

medical attention.

#### SECTION 5: FIRE FIGHTING MEASURES

Flash Point: >200°F (93.3°C)

Flash Point Method: Tag closed cup (TCC)

Auto Ignition Temperature: Not determined. Not determined.

Lower Flammable/Explosive

Upper Flammable/Explosive

Fire Fighting Instructions:

Not determined.

Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter

confined fire space without full protective gear. If possible, contain fire

run-off water.

Extinguishing Media: Use carbon dioxide (CO2) or dry chemical when fighting fires involving

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA),

MSHA/NIOSH (approved or equivalent) and full protective gear.

Unusual Fire Hazards: Contains gas under pressure; may explode if heated

Hazardous Combustion Oxides of carbon, Oxides of nitrogen, Methyl ethyl ketone, possibly

Byproducts: methyl ethyl ketoxime, Silica fume, Formaldehyde

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

Personnel Precautions: Evacuate area and keep unnecessary and unprotected personnel from

entering the spill area.

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Absorb spill with inert material (e,g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spillsSpill Cleanup Measures:

immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue.

Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal protective equipment as listed in section 8.

Other Precautions: Pump or shovel to storage/salvage vessels.

## SECTION 7: HANDLING and STORAGE

Handling: CAUTION: Compressed gas. Do not puncture or incinerate container.

Avoid contact with skin and eyes. Do not wear contact lenses. Wash hands before eating and smoking. Product may cause surfaces to

become slippery.

Store away from heat. Keep containers tightly closed in a cool, well-Storage:

ventilated place. Store away from water or moisture.

Hygiene Practices: Wash thoroughly after handling

### SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls: Use appropriate engineering control such as process enclosures, local

exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Eye/Face Protection: Wear appropriate protective glasses or splash goggles as described by

29 CFR 1910.133, OSHA eye and face protection regulation, or the

European standard EN 166

Skin Protection Description: Wear appropriate protective gloves and other protective apparel to

prevent skin contact. Consult manufacturer's data for permeability

Respiratory Protection: A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances

where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circum stances where air purifying respirators may not provide adequate

Other Protective: Facilities storing or utilizing this material should be equipped with an

eyewash and a deluge shower safety station.

Carbon black:

Guideline ACGIH: 3.5 mg/m3

TLV-TWA: 3.5 mg/m3

Calcium Carbonate:

Guideline ACGIH: 10 mg/m3 Guideline OSHA: 5 mg/m3

PEL-TWA: 15 mg/m3 Total particulate/dust (T) PEL-TWA: 5 mg/m3 Respirable fraction (R)

Notes : Only established PEL and TLV values for the ingredients are listed.

# SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance: Paste

Color: Black

Odor: Mild chemical. Boiling Point: Not determined. Melting Point: Not determined.

Specific Gravity: 1.36

Solubility: Polymerized Vapor Density: 3 (Air=1)

Vapor Pressure: <5 mm Hq @ 80°F

Percent Volatile: < 3.8%

Not determined. Evaporation Rate: Not determined.

Molecular Formula: Mixture Molecular Weight: Mixture

Flash Point: >200°F (93.3°C) Flash Point Method: Tag closed cup (TCC) Auto Ignition Temperature: Not determined.

VOC Content: < 4%

Percent Solids by Weight Not determined.

# SECTION 10: STABILITY and REACTIVITY

Chemica | Stability: Stable under normal temperatures and pressures.

Hazardous Polymerization:

Conditions to Avoid: Extreme heat, sparks, and open flame. Incompatible materials,

oxidizers and oxidizing conditions. Protect against moisture.

Incompatible Materials: Oxidizing agents. Strong acids and alkalis.

Special Decomposition

Products:

When heated to temperatures above 300 degrees F. in the presence of air, this product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Safe handling conditions may be maintained by keeping vapor concentrations below the OSHA permissible limit for formaldehyde

## SECTION 11: TOXICOLOGICAL INFORMATION

### Carbon black:

RTECS Number: FF5800000

Skin: Administration onto the skin - Rabbit : >3 gm/kg [Details of toxic

effects not reported other than lethal dose value]
Administration onto the skin - Rat : 11 gm/kg/4W (Intermittent) [Blood - Pigmented or nucleated red blood cells Liver - Changes in liver weight Nutritional and Gross Metabolic - Weight loss or decreased

weight gain]

Ingestion: Oral - Rat LD50: >15400 mg/kg [Behavioral - Somnolence (general

depressed activity)]

Carcinogenicity: IARC: Group 2B: Possibly carcinogenic to humans.

Ethyl methyl ketoxime:

RTECS Number: FI 9275000

Eye: Eye - Rabbit Standard Draize test.: 100 uL

Administration onto the skin - Rat LD: >2 gm/kg [Details of toxic Skin:

effects not reported other than lethal dose value]
Administration onto the skin - Rabbit LD50: 200 uL/kg [Details of toxic

effects not reported other than lethal dose value]

than lethal dose value]

Ethyl methyl ketoxime:

RTECS Number: EL9275000

Eye: Eye - Rabbit Standard Draize test.: 100 uL

Skin: Administration onto the skin - Rabbit LD50 : >16 mL/kg [Kidney,

Ureter, Bladder - Other changes Nutritional and Gross Metabolic - Other

changes]

Ingestion: Oral - Rat LD50: 930 mg/kg [Details of toxic effects not reported other

than lethal dose value]

Oral - Mouse LD50: 1 gm/kg [Details of toxic effects not reported other

than lethal dose value]

<u>Distillates (petroleum), hydrotreated light; Kerosine - unspecified :</u>

RTECS Number: OA5504000

Polybutylene:

RTECS Number: EM9032000

<u>Calcium Carbonate</u>:

RTECS Number: FF9335000

Eye: Eye - Rabbit Standard Draize test.: 750 ug/24H

Skin: Administration onto the skin - Rabbit : 500 mg/24H

Ingestion: Oral - Rat LD50: 6450 mg/kg [Details of toxic effects not reported

other than lethal dose value]

<u>Limestone</u>:

RTECS Number: EV9580000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data was found for the product.

Environmental Fate: No environmental information found for this product.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the

classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the

EPA and/or state and local guidelines.

RCRA Number: Not determined.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Not Regulated.

DOT UN Number: Not Regulated.

SECTION 15: REGULATORY INFORMATION

Carbon black:

TSCA Inventory Status: Listed

California PROP 65: Listed: cancer

Massachusetts: Listed
Pennsylvania: Listed
Canada DSL: Listed

Ethyl methyl ketoxime :

TSCA Inventory Status: Listed
Canada DSL: Listed

Ethyl methyl ketoxime:

TSCA Inventory Status: Listed
Canada DSL: Listed

Distillates (petroleum), hydrotreated light; Kerosine - unspecified :

TSCA Inventory Status: Listed

TSCA Inventory Status: Listed Canada DSL: Listed

Polybutylene:

TSCA Inventory Status: Listed Canada DSL: Listed

<u>Calcium Carbonate</u>:

TSCA Inventory Status: Listed Canada DSL: Listed

<u>Limestone</u>:

TSCA Inventory Status: Listed Massa chusetts: Listed Pennsylvania: Listed Canada NDSL: Listed

Canadian Regulations. WHMIS Hazard Class(es): D2B

 $\ensuremath{\mathsf{All}}$  components of this product are on the Canadian Domestic Substances List.

WHMIS Pictograms:



# SECTION 16: ADDITIONAL INFORMATION

MSDS Creation Date: September 27, 2010 MSDS Revision Date: December 30, 2012 MSDS Author: Actio Corporation

Disclaimer:

This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All the miscales should be handled only by competent personnel, within a chemicals should be handled only by competent personnel, within a controlled environment.

Copyright© 1996-2013 Actio Corporation. All Rights Reserved.