

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Permatex® Anaerobic Gasket Maker - 300 ml

Product Code: 51845 51845 Stock No.: Manufacturer Name:

Permatex, Inc. 10 Columbus Blvd. Address: Hartford, CT 06106

USA

General Phone Number:

1-87-Permatex, (877) 376-2839 800-255-3924

Emergency Phone Number: CHEMTREC:

For emergencies in the US, call CHEMTREC: 800-424-9300

MSDS Creation Date: December 27, 2008 MSDS Revision Date: December 30, 2012

(M)SDS Format:



SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Ingredient Percent
25852-47-5	10 - 30 by weight
67762-90-7	5 - 15 by weight
79-10-7	0.1 - 1.0 by weight
80-15-9	<3 by weight
868-77-9	<5 by weight
Mixture	50 - 70 by weight
	25852-47-5 67762-90-7 79-10-7 80-15-9 868-77-9

SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview: CAUTION! Harmful. Irritant. Route of Exposure: Eves. Skin. Inhalation. Ingestion. Potential Health Effects: Eve: 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

Respiratory tract irritant. High concentration may cause dizziness, Inhalation:

headache, and anesthetic effects.

Ingestion: 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.

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

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

SECTION 4: FIRST AID MEASURES

Skin Contact:

Inhalation:

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.

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.

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

medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control

center immediately. Never give anything by mouth to an unconscious

person.

Flash Point: >200 °F (>93.3°C)

Flash Point Method: Tag closed cup (TCC)

Auto Ignition Temperature: Not determined.

Lower Flammable/Explosive

Lim it:

Not determined.

Upper Flammable/Explosive

Lim it:

Not determined.

Fire Fighting Instructions: 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

this material.

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

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

Unusual Fire Hazards:

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.

Spill Cleanup Measures: Absorb spill with inert material (e,g., dry sand or earth), then place in a

chemical waste container. Provide ventilation. Clean up spills 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.

Absorb spill or leak with sand or cloth. Sweep or shovel into an Methods for containment:

appropriate waste container until disposal

Methods for cleanup: Absorb spill or leak with sand or cloth. Sweep or shovel into an

appropriate waste container until disposal.

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

polymerization.

SECTION 7: HANDLING and STORAGE

Handling: Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.

Storage: Store in a cool, dry, well ventilated area away from sources of heat and

incompatible materials. Keep container tightly closed when not in use. Store below 100 $^{\circ}\text{F}$

Special Handling Procedures: Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting

operations and to protect against dust during sanding/grinding of cured

product.

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.

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

prevent skin contact. Consult manufacturer's data for permeability

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

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.

Acrylic acid:

Guideline ACGIH: 2 ppm

Skin: Yes TLV-TWA: 2 ppm

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

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance: Gel

Color: Red

Odor: Mild chemical. >300°F (148.8°C) Boiling Point:

Melting Point: Not determined.

Specific Gravity: 1.1 @ 80 °F

Vapor Density: Heavier than air. Vapor Pressure: <5 mmHg @68°F Evaporation Rate: Not determined. Evaporation Point: Not determined. pH: Not determined.

Molecular Formula: Mixture Molecular Weight: Mixture

>200 °F (>93.3°C) Flash Point: Flash Point Method: Tag closed cup (TCC) Auto Ignition Temperature: Not determined. VOC Content: 1.5% by weight

SECTION 10: STABILITY and REACTIVITY

Chemica | Stability: Stable under normal temperatures and pressures.

Hazardous Polymerization: Polymerization may occur under certain conditions.

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

oxidizers and oxidizing conditions. Oxygen-free atmospheres or inert gas blanketing. Freezing conditions. Material can soften paint and

Incompatible Materials: Oxidizing agents (eg peroxides, nitrates), reducing agents, acids, bases, azo-compounds, catalytic metals (eg copper, iron), halogens.

Free radical initiators. Oxygen scavengers.

SECTION 11: TOXICOLOGICAL INFORMATION

Amorphous silicon dioxide:

RTECS Number: VW 3234375

Acrylic acid:

AS4375000 RTECS Number:

Eye - Rabbit Standard Draize test.: 1 mg Eye: Eye - Rabbit Standard Draize test.: 250 ug/24H

Skin: Administration onto the skin - Rabbit : 280 uL/kg [Details of toxic

Administration office the Skill - Robbit : 200 uL/kg [Petalis of toxic effects not reported other than lethal dose value]
Administration onto the skin - Rabbit : 640 mg/kg [Cardiac - Cardiomegaly Lungs, Thorax, or Respiration - Acute pulmonary edema Skin and Appendages - Corrosive (After topical exposure)]
Administration onto the skin - Guinea pig : 5 pph/12W (Intermittent) [Skin and Appendages - Cutaneous sensitization, experimental (After

topical exposure)]

Administration onto the skin - Rabbit : 500 mg Administration onto the skin - Rabbit : 5 mg/24H Administration onto the skin - Mouse : 37440 mg/kg/78W (Intermittent) [Tumorigenic - carcinogenic by RTECS criteria Blood -Leukemia 1

Administration onto the skin - Mouse : 37440 mg/kg/78W

(Intermittent) [Tumorigenic - equivocal Tumorigenic agent by RTECS

criteria Skin and Appendages - Tumors]

Inhalation: Inhalation - Mouse LC50: 5300 mg/m3/2H [Details of toxic effects not

reported other than lethal dose value]

Ingestion: Oral - Rat LD50: 33500 $\,ug/kg$ [Details of toxic effects not reported other than lethal dose value]

Oral - Mouse LD50: 2400 mg/kg [Tumorigenic - Active as anti-cancer

agent]

Cumene hydroperoxide:

Eye - Rabbit Standard Draize test.: 70%

Skin: Administration onto the skin - Rat : 500 mg/kg [Behavioral Convulsions or effect on seizure threshold Kidney/Ureter/Bladder -

Hematuria]

Administration onto the skin - Rabbit : 1200 mg/kg [Cardiac - Pulse rate increase, without fall in BP Blood - changes in erythrocyte (RBC) count Nutritional and Gross Metabolic - Body temperature decrease] Administration onto the skin - Mouse : 490 mg/kg [Details of toxic

effects not reported other than lethal dose value] Administration onto the skin - Mouse : 1200 mg/kg [Biochemical -Enzyme inhibition, induction, or change in blood or tissue levels -Catalases Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - Other oxidoreductases Biochemical - Enzyme

inhibition, induction, or change in blood or tissue levels - Other

Administration onto the skin - Rat : 250 mg/kg [Vascular - Structural changes in vessels Biochemical - Metabolism (Intermediary) - Effect on

inflammation or mediation of inflammation]
Administration onto the skin - Mouse : 300 mg/kg [Biochemical Metabolism (Intermediary) - Effect on inflammation or mediation of

inflammation] Administration onto the skin - Mouse : 2012 mg/kg/2W (Intermittent)

[Skin and Appendages - Tumors Biochemical - Metabolism (Intermediary) - Other proteins]

(Aldministration onto the skin - Mouse : 20.1 gm/kg/20W (Intermittent) [Skin and Appendages - Tumors Tumorigenic - Facilitates action of known carcinogen Biochemical - Metabolism (Intermediary) - Effect on

inflammation or mediation of inflammation]

Administration onto the skin - Mouse : 30442 ug/kg/4W (Intermittent) [Biochemical - Metabolism (Intermediary) - Effect on inflammation or

mediation of inflammation]

Administration onto the skin - Mouse : 100 mg/kg Administration onto the skin - Rabbit : 500 mg Administration onto the skin - Rabbit : 500 mg Administration onto the skin - Mouse : 18000 ug/kg/18W

(Intermittent) [Tumorigenic - carcinogenic by RTECS criteria Skin and Appendages - Tumors Tumorigenic - Facilitates action of known

carcinogen]

Inhalation: Inhalation - Rat LC50: 220 ppm/4H [Lungs, Thorax, or Respiration -

Dyspnea]

Inhalation - Mouse LC50: 200 ppm/4H [Lungs, Thorax, or Respiration -

Dyspnea]

Oral - Rat LD50: 382 mg/kg [Kidney/Ureter/Bladder - Hematuria] Oral - Mouse LD50: 342 mg/kg [Details of toxic effects not reported Ingestion:

other than lethal dose value] Oral - Rat LD50: 800 mg/kg [Details of toxic effects not reported other

Methacrylate:

OZ4725000 RTECS Number:

Oral - Rat LD50: 5050 mg/kg [Behavioral - Coma] Oral - Mouse LD50: 3275 mg/kg [Behavioral - Coma] Ingestion:

SECTION 12: ECOLOGICAL INFORMATION

Eco to x icity: No ecotoxicity data was found for the product.

Environmental Fate: No environmental information found for this product.

SECTION 13: DISPOSAL CONSIDERATIONS

Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, Waste Disposal:

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: Non regulated.

DOT UN Number: Not applicable. DOT Hazard Class: Not applicable.

DOT Packing Group: Not applicable.

IATA Shipping Name: Non regulated. IATA UN Number: Not applicable.

IATA Hazard Class:

SECTION 15: REGULATORY INFORMATION

Not applicable.

Polyethylene glycol dimethacrylate:

TSCA Inventory Status: Listed
Canada DSL: Listed

Amorphous silicon dioxide:

TSCA Inventory Status: Listed
Canada DSL: Listed

Acrylic acid:

TSCA Inventory Status:

SARA: EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed

Chemical.

Listed

New Jersey: Listed: NJ Hazardous List; Substance Number: 0023

Massachusetts: Listed: Massachusetts Oil and Hazardous List

Pennsylvania: Listed
Canada DSL: Listed

<u>Cumene hydroperoxide</u>:

TSCA Inventory Status: Listed

SARA: EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed

Chemical.

New Jersey: Listed: NJ Hazardous List; Substance Number: 0543

Massachusetts: Listed: Massachusetts Oil and Hazardous List

Pennsylvania: Listed
Canada DSL: Listed

Metha crylate:

TSCA Inventory Status: Listed
Canada DSL: Listed

Canadian Regulations. WHMIS Hazard Class(es): D2B

WHMIS Hazard Class(es): D2B All components of this product are on the Canadian Domestic Substances $\ensuremath{\mathsf{Substances}}$

List.

SECTION 16: ADDITIONAL INFORMATION

MSDS Creation Date: December 27, 2008
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 chemicals should be handled only by competent personnel, within a

controlled environment.

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