

Permatex, Inc.
 10 Columbus Blvd.
 Hartford, CT 06106 USA
 Telephone: 1-87-Permatex
 (877) 376-2839
 Emergency: 800-255-3924
 International Emergency: 813-248-0585

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: 2A FORM-A-GASKET #2 SEALANT 1.5OZ
Item No: 80009
Product Type: Sealant

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Weight Percent	ACGIH TLV:	OSHA PEL:
KAOLIN 1332-58-7	50-60	2 mg/m ³ dust TWA	15 mg/m ³ dust; 5 mg/m ³ respir. TWA
VEGETABLE OIL 68187-84-8	15-25	Not Listed	Not Listed
ROSIN 8050-09-7	10-20	sensitizer; reduce exposure to as low as possible	15 mg/m ³ total dust; 5 mg/m ³ respir.
2-PROPANOL 67-63-0	10-20	200 ppm TWA	400 ppm TWA; 980 mg/m ³ TWA
TITANIUM DIOXIDE 13463-67-7	0.1-1.0	10 mg/m ³ TWA ACGIH	15 mg/m ³ TWA (total dust)
SILICA, QUARTZ 14808-60-7	0.1-1.0	0.05 mg/m ³ TWA respirable	0.1 mg/m ³ TWA respirable

3. HAZARDS IDENTIFICATION

Toxicity: May cause eye, skin and respiratory irritation. Oral LD50 greater than 5000 mg/kg.
Primary Routes of Entry: Eye and skin contact, ingestion, inhalation
Signs and Symptoms of Exposure: Excessive accidental exposure may cause headache, dizziness, nausea and mild respiratory irritation. Overexposure may cause eye and skin redness.

Ingredient	Weight Percent	NTP	ACGIH Carcinogens	IARC
KAOLIN 1332-58-7	50-60		A4-Not classifiable as a human carcinogen	
2-PROPANOL 67-63-0	10-20		A4 - Not classifiable as a human carcinogen	Group 3 Monograph 71, 1999; Supp.7, 1987; Monograph 15, 1977
TITANIUM DIOXIDE 13463-67-7	0.1-1.0	male rat-negative, female rat-negative, male mice-negative, female mice-negative	A4	Group 2B; Vol 93,2006; Vol 47,1989
SILICA, QUARTZ 14808-60-7	0.1-1.0		A2 - Suspected Human Carcinogen	Group 1; Monograph 68, 1997 (inhaled)

Medical Conditions Recognized as Being Aggravated by Exposure: Preexisting eye, skin and respiratory disorders may be aggravated by overexposure to this product.

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation: Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. Obtain medical attention.
Skin Contact: Wash off with soap and water. If skin irritation persists, call a physician.
Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point (°F/C): Does not apply. Per ASTM D4359 this product is a solid.
Recommended Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam.

5. FIRE FIGHTING MEASURES

Special Fire-Fighting Procedures:

Firefighters should wear self-contained breathing apparatus. Water spray may be ineffective on flames but should be used to keep fire-exposed containers cool.

Hazardous Products of Combustion:

Aldehydes, Oxides of carbon, Carboxylic acids

Unusual Fire/Explosion Hazards:

Closed containers may rupture or explode when exposed to extreme heat.

Lower Explosive Limit:

2

Upper Explosive Limit:

12

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures:

Eliminate all sources of ignition. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal. Residues may be cleaned up with isopropyl alcohol.

7. HANDLING AND STORAGE

Storage:

Store away from heat, sparks or open flame. Do not store at temperatures above 120 degrees F.

Handling:

Avoid contact with skin and eyes. Do not inhale vapors. Keep container closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:

Safety glasses

Skin:

Rubber or plastic gloves.

Ventilation:

General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.

Respiratory Protection:

An approved respirator (i.e. NIOSH, etc.) should be worn when exposures are expected to exceed the applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Black paste

Odor:

Alcoholic

Boiling Point:

180 degrees F.

pH:

Does not apply

Solubility in Water:

Partial

Specific Gravity:

1.5

VOC Content(Wt.%):

12.7% by weight

Vapor Pressure:

33 mm Hg @ 68 degrees F.

Vapor Density (Air=1):

2.07

Evaporation Rate:

7.7 (ether = 1)

10. STABILITY AND REACTIVITY

Chemical Stability:

Stable at normal conditions

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Strong oxidizers

Conditions to Avoid:

Keep away from heat, sparks and open flame. - No smoking

Hazardous Products of Combustion:

Aldehydes, Oxides of carbon, Carboxylic acids

11. TOXICOLOGICAL INFORMATION

See Section 3

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal: Disposal should be made in accordance with federal, state and local regulations.

US EPA Waste Number:

NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49CFR 172)

Domestic Ground Transport

DOT Shipping Name:

Unrestricted

Product Name: 2A FORM-A-GASKET #2 SEALANT
1.5OZ

Item No: 80009

Hazard Class: None
UN/ID Number: None
Marine Pollutant: None

IATA

Proper Shipping Name: Not regulated
Class or Division: None
UN/NA Number: None

IMDG

Proper Shipping: Unrestricted
Hazard Class: None
UN Number: None

15. REGULATORY INFORMATION

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.

NONE

CALIFORNIA PROP 65:

No California Prop 65 chemicals are known to be present at or above the No Significant Risk Level.

TSCA Inventory Status:

Listed on Inventory: YES All components of this product are listed (or exempt) on the EPA TSCA inventory.

16. OTHER INFORMATION

Estimated NFPA Rating: HEALTH 2, FLAMMABILITY 1, REACTIVITY 0

Estimated HMIS Classification: HEALTH 2, FLAMMABILITY 1, PHYSICAL HAZARD 0

NFPA is a registered trademark of the National Fire Protection Assn.

HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared By: Denise Boyd, Health and Safety Manager
Company: Permatex, Inc. 10 Columbus Blvd. Hartford, CT USA 06106

Revision Date: 12/15/2006
Revision Number: 5