

MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Permatex(R) Form-A-Gasket(R) #2 Sealant
Non-Hardening
Item No.: 80015
Part No.: 2AR
Product Type: Sealant

A-296

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Clay	1332-58-7	50-55
Resin	8050-09-7	15-20
Vegetable oil	68187-84-8	15-20
ISOPROPYL ALCOHOL	67-63-0	10-15
Soybean derivative	8002-43-5	1-3

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Clay	2 mg/m3 dust	10 mg/m3 dust 5 mg/m3 respir.	None
ISOPROPYL ALCOHOL	400 ppm TWA 983 mg/m3	400 ppm TWA 980 mg/m3	400 ppm TWA DuPont REL

Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)
ISOPROPYL ALCOHOL	500 ppm 1230 mg/m3	500 ppm 1225 mg/m3

3. HAZARDS IDENTIFICATION

Toxicity: Eye irritant.
Oral LD50 greater than 5000 mg/kg (estimated)
Primary Routes of Entry: Inhalation, ingestion, contact.
Signs and Symptoms of Exposure: Vapor above TLV is irritating to eyes, nose and throat and can cause headache, dizziness, nausea.
Existing Conditions Aggravated by Exposure: Skin, eye, and respiratory disorders.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen NTP IARC OSHA
Clay	NUI	NO NO NO
Resin	ALG IRR RES	NO NO NO
Vegetable oil	No Data	NO NO NO
ISOPROPYL ALCOHOL	ALG BLO CNS IRR KID	NO N/A NO
Soybean derivative	NTD	NO NO NO

Abbreviations

N/A Not Applicable	ALG Allergen
BLO Blood	CNS Central nervous system
IRR Irritant	KID Kidney
NTD No Target Organs	NUI Nuisance dust
RES Respiratory	

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm.
Obtain medical attention.
Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.
Skin Contact: Wash with soap and water.
Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

LOCTITE CORPORATION

1001 TROUT BROOK CROSSING
ROCKY HILL, CT 06067-3910
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5. FIRE FIGHTING MEASURES

Flash Point: Does not apply
Per ASTM D 4359 this product is a solid.

Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical

Special Firefighting Procedures: Not available

Hazardous Products formed by Fire or Thermal Decomp: Aliphatic aldehydes, carboxylic acids, oxides of carbon.

Unusual Fire or Explosion Hazards: None

Explosive Limits:
{% by volume in air} Lower 2%
{% by volume in air} Upper 12%

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: Remove sources of ignition. Maintain adequate ventilation. Scrape up as much as possible and store in a closed container until disposal. Residues may be cleaned with isopropyl alcohol.

7. HANDLING AND STORAGE

Safe Storage: Store away from heat and flame.
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)

Handling: Avoid prolonged breathing of vapors. Keep away from eyes. Avoid prolonged skin contact.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.

Skin: Rubber or plastic gloves.

Ventilation: Must be adequate to avoid exceeding TLV.

Respiratory: Not available

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black Paste

Odor: Alcoholic

Boiling Point: 180°F

pH: Does not apply

Solubility in Water: Partial

Specific Gravity: 1.5 at 77°F

Volatile Organic Compound (EPA Method 24) 14.2%; 213 grams per liter

Vapor Pressure: 33 mm at 68°F

Vapor Density: 2.07

Evaporation Rate (Ether = 1) 7.7

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatibility: Strong oxidizers.

Conditions to Avoid: Not available

Hazardous Decomposition Products (non-thermal): None

11. TOXICOLOGICAL INFORMATION

See Section 3.

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8001512. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONSRecommended methods of disposal: Incinerate following EPA and local regulations.
EPA Hazardous Waste Number: NH - Not a RCRA Hazardous Waste Material14. TRANSPORTATION INFORMATIONDOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name: Unrestricted
Hazard Class or Division: Unrestricted
Identification Number: None
Marine Pollutant: None
IATA
Proper Shipping Name: Unrestricted
Class or Division: Unrestricted
UN or ID Number: None15. REGULATORY INFORMATION

CA Proposition 65: No Prop65 chemicals are known to be present.

16. OTHER INFORMATIONEstimated NFPA(R) Code:
Health Hazard: 2
Fire Hazard: 2
Reactivity Hazard: 0
Specific Hazard: Does not applyEstimated HMIS(R) Code:
Health Hazard: 2
Flammability Hazard: 2
Reactivity Hazards: 0
Personal Protection: See Section 8.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: Stephen Repetto
Title: Research Chemist, Environmental Health & Safety
Company: Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
(24hr.) Phone: (860) 571-5100
Revision Date: January 27, 1999 Revision: 0036

