

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated. 22

MATERIAL SAFETY DATA SHEET
 Order Number: 541786 Packout Lane: 1PACK0022 Item Number: 2SF42
 5A238
 PERMATEX INDUSTRIAL CORPORATION 01/09/95
 ROCKY HILL, CONNECTICUT 06067
 TELEPHONE: (203) 571-5100

Form-A-Gasket(R) #1 Sealant
 80003 - 5A238

I. PRODUCT IDENTIFICATION

Product Name: Form-A-Gasket(R) #1 Sealant
 Item No.: 80003 - 5A238
 Part No.: 1C
 Product Type: Sealant
 Formula No.: Does not apply

II. COMPOSITION

Ingredients	CAS No.	§
Clay	1332-58-7	50-55
Rosin	8050-09-7	20-25
ISOPROPYL ALCOHOL	67-63-0	10-15
Vegetable oil	68439-93-0	5-10
Soybean derivative	8002-43-5	1-3
IRON OXIDE	1309-37-1	0.1-0.5

III. CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure: 33 mm at 68°F
 Vapor Density: 2.07
 Solubility in Water: Partial
 Specific Gravity: 1.5 at 77°F
 Boiling Point: 180°F
 Volatile Organic Compound (BPA Method 24): 15.4%; 231 grams per liter
 Evaporation Rate (Ether = 1): 7.7
 pH: Does not apply
 Appearance: Red-Brown Paste
 Odor: Alcoholic

IV. FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash Point: 60°F Method: Tag Closed Cup
 Estimated NFPA Code:
 Health Hazard: 2
 Fire Hazard: 2
 Reactivity Hazard: 0
 Specific Hazard: Does not apply
 Estimated HMIS Code:
 Health Hazard: 2
 Flammability Hazard: 2
 Reactivity Hazard: 0
 Personal Protection: See Section X.
 Explosive Limits:
 (% by volume in air) Lower: 2%
 (% by volume in air) Upper: 12%
 Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical
 Hazardous Products Formed by Fire or Thermal Decomp: Aliphatic aldehydes, carboxylic acids, oxides of carbon.
 Unusual Fire or Explosion Hazards: None
 Compressed Gases: None
 Pressure at Room Temp.: Does not apply

V. SPILL OR LEAK AND DISPOSAL PROCEDURES

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 up with isopropyl alcohol.
 Recommended methods of disposal: Incinerate following EPA and local regulations.

VI. STORAGE AND HANDLING PROCEDURES

Safe Storage: Store away from heat and flame.
 Handling: Avoid prolonged breathing of vapors. Keep away from eyes. Avoid prolonged skin contact.

VII. SHIPPING REGULATIONS

DOT (49 CFR 172)
 Domestic Ground Transport
 Proper Shipping Name: Unrestricted
 Hazard Class or Division:
 Identification Number: None
 Marine Pollutant: None
 IATA
 Proper Shipping Name: Unrestricted
 Class or Division: Unrestricted
 UN or ID Number: None

VIII. REACTIVITY DATA

Stability: Stable
 Hazardous Polymerization: Will not occur.
 Hazardous Decomposition Products (non-thermal): None
 Incompatibility: Strong oxidizers

IX. EMERGENCY TREATMENT PROCEDURES

Ingestion: Induce vomiting. 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.

X. PERSONAL PROTECTION

Eyes: Safety glasses or goggles.
 Skin: Rubber or plastic gloves.
 Ventilation: Must be adequate to avoid exceeding TLV.

XI. HEALTH HAZARD DATA

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, throat and can cause headache, dizziness, and nausea.

Existing Conditions

Aggravated by Exposure: Skin, eye, and respiratory disorders.

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Clay	2 mg/m3 dust	10 mg/m3 dust	None
5 mg/m3 respir.			
ISOPROPYL ALCOHOL	400 ppm TWA	400 ppm TWA	None
983 mg/m3			
Vegetable oil	10 mg/m3 mist	15mg/m3mistdust	None
5mg/m3mist resp			
IRON OXIDE particulate	5 mg/M3 (Fe)	10 mg/M3 (Fe)	None

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

Ingredients for which no Exposure Limits have been established are not listed above.

Literature Referenced

Ingredients	Target Organ and Other Health Effects	Carcinogen	NTP	IARC	OSHA
Clay	BLO DEV		NO	NO	NO
Rosin	ACS ALG LUN		NO	NO	NO
ISOPROPYL ALCOHOL	GAS IRR NER PNS REP VAS		NO	N/A	NO
Vegetable oil	No Data		NO	NO	NO
Soybean derivative	No Data		NO	NO	NO
IRON OXIDE	No Data		NO	N/A	NO

Abbreviations

N/A	Not Applicable	ACS	ACGIH	sensitizer
ALG	Allergen	BLO	Blood	
DEV	Developmental	GAS	Gastrointestinal	
IRR	Irritant	LUN	Lung	
NER	Nervous System	PNS	Peripheral nervous system	
REP	Reproductive	VAS	Vascular	

XII. PREPARATION INFORMATION

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