

PERMATEX, INC.

11/17/99

HARTFORD, CT 06106  
TELEPHONE: (877) 376-2839

## MATERIAL SAFETY DATA SHEET

AVIATION FORM-A-GASKET (R) #3  
80017

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: AVIATION FORM-A-GASKET (R) #3  
Sealant Liquid  
Item No.: 80017  
Part No.: 3D  
Product Type: Sealant

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Vegetable oil	68187-84-8	35-40
Rosin	8050-09-7	20-25
ISOPROPYL ALCOHOL	67-63-0	20-25
TALC	14807-96-6	15-20
Water	7732-18-5	1-3

## Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
ISOPROPYL ALCOHOL	400 ppm TWA 983 mg/m3	400 ppm TWA 980 mg/m3	400 ppm TWA DuPont AEL
TALC	2 mg/m3 TWA respirable dust	2 mg/m3 TWA respirable dust	None
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.

## 3. HAZARDS IDENTIFICATION

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Vegetable oil	No Data	NO	NO	NO
Rosin	ALG IRR RES	NO	NO	NO
ISOPROPYL ALCOHOL	ALG BLO CNS IRR KID	NO	N/A	NO
TALC	IRR LUN SOM	NO	N/A	NO
Water	NTO	NO	NO	NO

## Abbreviations

N/A Not Applicable	ALG Allergen
BLO Blood	CNS Central nervous system
IRR Irritant	KID Kidney
LUN Lung	NTO No Target Organs
RES Respiratory	SOM Evidence of some carcinogenicity

## 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.

## 5. FIRE FIGHTING MEASURES

Flash Point:	60ø F	Method:	Tag Closed Cup
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.
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## 7. HANDLING AND STORAGE

Safe Storage:	Store away from heat and flame.
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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: Sufficient to maintain vapor concentration below TLV.  
 Respiratory: Not available

See Section 2 for Exposure Limits.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark brown Liquid  
 Odor: Alcoholic  
 Boiling Point: 180°F  
 pH: Does not apply  
 Solubility in Water: Partial  
 Specific Gravity: 1.1 at 77°F  
 Volatile Organic Compound  
 (EPA Method 24) 24.9%; 274 grams per liter  
 Vapor Pressure: 33mm 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.

#### 12. ECOLOGICAL INFORMATION

No data available

#### 13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations.  
 EPA Hazardous Waste Number: D001 - Hazardous waste per 40CFR 261.21

#### 14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name: Consumer Commodity (Not more than one liter);  
 Resin solution (More than one liter)

Hazard Class or Division:	ORM-D (Not more than one liter); Class 3, Packing Group II (More than one liter)
Identification Number:	None (Not more than one liter); UN 1866 (More than one liter)
Marine Pollutant:	None
IATA	
Proper Shipping Name:	Consumer Commodity (Not more than 500 ml); Resin Solution (More than 500 ml)
Class or Division:	Class 9 (Not more than 500 ml); Class 3, Packing Group II (More than 500 ml)
UN or ID Number:	ID 8000 (Not more than 500 ml); UN 1866 (More than 500 ml)

## 15. REGULATORY INFORMATION

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

## 16. OTHER INFORMATION

Estimated NFPA(R) Code:	
Health Hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0
Specific Hazard:	Does not apply

Estimated HMIS(R) Code:	
Health Hazard:	2

## 16. OTHER INFORMATION

Flammability Hazard:	3
Reactivity Hazards:	0
Personal Protection:	See Section 8.

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Prepared By:	Denise Boyd
Title:	Health & Safety Manager
Company:	Permatex, Inc. 10 Columbus Blvd. Hartford, CT 06106
(24hr.) Phone:	1-87-Permatex (877-376-2839)
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