

PERMATEX, INC.

11/17/99

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## 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)<br>Ingredients | ACGIH<br>(TLV)                 | OSHA<br>(PEL)                  | OTHER                     |
|--------------------------------------|--------------------------------|--------------------------------|---------------------------|
| ISOPROPYL ALCOHOL                    | 400 ppm TWA<br>983 mg/m3       | 400 ppm TWA<br>980 mg/m3       | 400 ppm TWA<br>DuPont AEL |
| TALC                                 | 2 mg/m3 TWA<br>respirable dust | 2 mg/m3 TWA<br>respirable dust | None                      |

  

| Exposure Limits (STEL)<br>Ingredients | ACGIH<br>(TLV)        | OSHA<br>(PEL)         |
|---------------------------------------|-----------------------|-----------------------|
| ISOPROPYL ALCOHOL                     | 500 ppm<br>1230 mg/m3 | 500 ppm<br>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<br>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   |

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## 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 Decomposition | 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. |
|---------------|---------------------------------|

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

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