# **S Permatex**

# SAFETY DATA SHEET

Revision Date 18-Apr-2017 Version 5

# 1. IDENTIFICATION

Product identifier

Product Name 3D AVIATION FORM-A-GASKET #3 SEALANT 1PT

Other means of identification

Product Code 80017 Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Sealant

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer AddressMay Also Be Distributed by:ITW PermatexITW Permatex Canada6875 Parkland Blvd.35 Brownridge Road, Unit 1Solon, OH 44139 USAHalton Hills, ON Canada L7G 0C6Telephone: (800) 924-6994

releptione. (000) 324-033

24 Hour Emergency Phone Number Chem-Tel: 800-255-3924 International Emergency: 00+1+ 813-248-0585

Contract Number: MIS0003453

E-mail address mail@permatex.com

# 2. HAZARDS IDENTIFICATION

### Classification

# **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization	Category 1
Carcinogenicity	Category 2
Flammable liquids	Category 2

### Label elements

### **Emergency Overview**

### Danger

May cause an allergic skin reaction Suspected of causing cancer Highly flammable liquid and vapor

\_\_\_\_\_



Appearance Brown Physical state Liquid Odor Alcohol

### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Use only non-sparking tools

Take precautionary measures against static discharge

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

Specific treatment (see supplemental first aid instructions on this label)

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

In case of fire: Use CO2, dry chemical, or foam for extinction

### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

Not applicable

### Other Information

- Not applicable

Unknown acute toxicity

18.78955 % of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance(s)

Chemical Name	CAS No	Weight-%	Trade Secret
ROSIN	8050-09-7	10 - 30	*
MAGNESIUM SILICATE	14807-96-6	10 - 30	*
ETHANOL	64-17-5	10 - 30	*
2-PROPANOL	67-63-0	1 - 5	*
METHANOL	67-56-1	0.1 - 1	*
METHYL ISOBUTYL KETONE	108-10-1	0.1 - 1	*

4. FIRST AID MEASURES

Revision Date 18-Apr-2017

**Description of first aid measures** 

General advice Get medical advice/attention if you feel unwell.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower. If skin irritation or rash occurs:. Wash contaminated clothing before

reuse.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If symptoms persist, call a physician.

Ingestion IF SWALLOWED:. Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Call a physician.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved and take precautions to

protect themselves.

Most important symptoms and effects, both acute and delayed

**Symptoms** See section 2 for more information.

Indication of any immediate medical attention and special treatment needed

# 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2), Dry chemical, Foam

Unsuitable extinguishing media

None.

Specific hazards arising from the chemical

Highly flammable. Vapors may travel to source of ignition and flash back.

**Explosion data** 

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

**Personal precautions** Remove all sources of ignition. Ensure adequate ventilation, especially in confined areas.

Avoid contact with eyes and skin. Use personal protective equipment as required.

Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system. See Section 12 for additional

ecological information.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Eliminate all ignition sources if safe to do so. Ensure adequate ventilation. Soak up with

inert absorbent material. Sweep up and shovel into suitable containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid breathing

vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required.

# Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a well-ventilated place. Keep cool. Keep away from heat, sparks, flame and other

sources of ignition (i.e., pilot lights, electric motors and static electricity).

Incompatible materials Strong oxidizing agents

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
ROSIN	-	(vacated) TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m³ Formaldehyde
8050-09-7		Formaldehyde	
MAGNESIUM SILICATE	TWA: 2 mg/m³ particulate matter	(vacated) TWA: 2 mg/m3 respirable	IDLH: 1000 mg/m <sup>3</sup>
14807-96-6	containing no asbestos and <1%	dust <1% Crystalline silica,	TWA: 2 mg/m³ containing no
	crystalline silica, respirable fraction	containing no Asbestos	Asbestos and <1% Quartz
		TWA: 20 mppcf if 1% Quartz or	respirable dust
		more, use Quartz limit	*
ETHANOL	STEL: 1000 ppm	TWA: 1000 ppm	IDLH: 3300 ppm
64-17-5		TWA: 1900 mg/m <sup>3</sup>	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1900 mg/m <sup>3</sup>
		(vacated) TWA: 1900 mg/m <sup>3</sup>	
2-PROPANOL	STEL: 400 ppm	TWA: 400 ppm	IDLH: 2000 ppm
67-63-0	TWA: 200 ppm	TWA: 980 mg/m <sup>3</sup>	TWA: 400 ppm
		(vacated) TWA: 400 ppm	TWA: 980 mg/m <sup>3</sup>
		(vacated) TWA: 980 mg/m <sup>3</sup>	STEL: 500 ppm
		(vacated) STEL: 500 ppm	STEL: 1225 mg/m <sup>3</sup>
		(vacated) STEL: 1225 mg/m <sup>3</sup>	
METHANOL	STEL: 250 ppm	TWA: 200 ppm	IDLH: 6000 ppm
67-56-1	TWA: 200 ppm	TWA: 260 mg/m <sup>3</sup>	TWA: 200 ppm
	S*	(vacated) TWA: 200 ppm	TWA: 260 mg/m <sup>3</sup>
		(vacated) TWA: 260 mg/m <sup>3</sup>	STEL: 250 ppm
		(vacated) STEL: 250 ppm	STEL: 325 mg/m <sup>3</sup>
		(vacated) STEL: 325 mg/m <sup>3</sup>	
		(vacated) S*	
METHYL ISOBUTYL KETONE	STEL: 75 ppm	TWA: 100 ppm	IDLH: 500 ppm
108-10-1	TWA: 20 ppm	TWA: 410 mg/m <sup>3</sup>	TWA: 50 ppm
		(vacated) TWA: 50 ppm	TWA: 205 mg/m <sup>3</sup>
		(vacated) TWA: 205 mg/m <sup>3</sup>	STEL: 75 ppm
		(vacated) STEL: 75 ppm	STEL: 300 mg/m <sup>3</sup>
		(vacated) STEL: 300 mg/m <sup>3</sup>	

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

# **Appropriate engineering controls**

Engineering Controls Showers

Eyewash stations Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eyelface protection** Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves.

appropriate.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of

equipment, work area and clothing is recommended.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state Liquid
Appearance Brown
Odor Alcohol

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No information available Melting point / freezing point No information available

Boiling point / boiling range 82 °C / 180 °F Flash point 16 °C / 61 °F

**Evaporation rate** 7.7 Ether = 1

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: 12.0%
Lower flammability limit: 2.0%
Vapor pressure 33 mm Hg

Vapor density 2.07 Air = 1

Relative density 1.090-1.114
Water solubility Partially soluble

Solubility in other solvents No information available No information available **Partition coefficient** No information available **Autoignition temperature** No information available **Decomposition temperature** Kinematic viscosity No information available **Dynamic viscosity** No information available No information available **Explosive properties Oxidizing properties** No information available

**Other Information** 

Softening pointNo information availableMolecular weightNo information available

**VOC Content (%)** 19.4%

DensityNo information availableBulk densityNo information available

# 10. STABILITY AND REACTIVITY

### Reactivity

No data available

# **Chemical stability**

Stable under recommended storage conditions

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Heat, flames and sparks.

# Incompatible materials

Strong oxidizing agents

# **Hazardous Decomposition Products**

Carbon oxides Aldehydes Carboxylic acids

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Inhalation** May cause irritation of respiratory tract.

Eye contact Contact with eyes may cause irritation. May cause redness and tearing of the eyes.

**Skin contact** May cause skin irritation and/or dermatitis. May cause sensitization by skin contact.

**Ingestion** Ingestion may cause irritation to mucous membranes.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
ROSIN	= 7600 mg/kg (Rat) = 3000 mg/kg	> 2500 mg/kg (Rabbit)	= 1.5 mg/L (Rat) 4 h
8050-09-7	(Rat)		
ETHANOL	= 7060 mg/kg (Rat)	=	= 124.7 mg/L (Rat) 4 h
64-17-5			
2-PROPANOL	5050 mg/kg	12800 mg/kg	= 72600 mg/m <sup>3</sup> (Rat) 4 h
67-63-0			
METHANOL	= 6200 mg/kg (Rat)	= 15800 mg/kg (Rabbit)	= 22500 ppm (Rat) 8 h = 64000
67-56-1			ppm (Rat)4h
METHYL ISOBUTYL KETONE	= 2080 mg/kg (Rat)	= 3000 mg/kg ( Rabbit )	= 8.2 mg/L (Rat) 4 h
108-10-1		,	

# Information on toxicological effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

<u> </u>	the talling and the second and the s		,	
Chemical Name	ACGIH	IARC	NTP	OSHA
MAGNESIUM SILICATE 14807-96-6	-	Group 3	-	X
ETHANOL 64-17-5	A3	-	Known	X
METHYL ISOBUTYL KETONE 108-10-1	A3	Group 2B	-	X

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans Not classifiable as a human carcinogen NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Chronic toxicity May cause adverse effects on the bone marrow and blood-forming system. May cause

adverse liver effects. Contains a known or suspected reproductive toxin.

Target Organ Effects Blood, Central nervous system, Central Vascular System (CVS), Eyes, Liver, Reproductive

System, Respiratory system, Skin, Thyroid.

### The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 7070 mg/kg ATEmix (dermal) 6546 mg/kg ATEmix (inhalation-dust/mist) 46.4 mg/l

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

0.98305 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

# Persistence and degradability

No information available.

### Bioaccumulation

No information available.

### **Mobility**

No information available.

Chemical Name	Partition coefficient
ETHANOL	-0.32
64-17-5	
2-PROPANOL	0.05
67-63-0	
METHANOL	-0.77
67-56-1	
METHYL ISOBUTYL KETONE	1.19
108-10-1	

# Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Disposal of wastes This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

Contaminated packaging Do not reuse container.

US EPA Waste Number D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name		California Hazardous Waste Status
_		

ETHANOL	Toxic	
64-17-5	Ignitable	
2-PROPANOL	Toxic	
67-63-0	Ignitable	
METHANOL	Toxic	
67-56-1	Ignitable	

# 14. TRANSPORT INFORMATION

<u>DOT</u>

**UN/ID no** 1866

**Proper shipping name:** (Epoxy resin), solution, Limited Quantity (LQ)

Hazard Class 3
Packing Group || |
Emergency Response Guide 127

Number

<u>IATA</u>

**UN/ID** no ID 8000

Proper shipping name: Consumer commodity

Hazard Class 9 ERG Code 9L

<u>IMDG</u>

**UN/ID no** 1866

Proper shipping name: (Epoxy resin), solution, Limited Quantity (LQ)

Hazard Class 3
Packing Group II
EmS-No F-E, S-E

# 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies Not determined **ENCS IECSC** Complies Complies **KECL PICCS** Complies **AICS** Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### **US Federal Regulations**

# **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
2-PROPANOL - 67-63-0	1.0

SARA 311/312 Hazard Categories

Revision Date 18-Apr-2017

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard Yes

Sudden release of pressure hazard No Reactive Hazard No

# **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

	Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Γ	METHANOL	5000 lb	=	RQ 5000 lb final RQ
L	67-56-1			RQ 2270 kg final RQ
Γ	METHYL ISOBUTYL KETONE	5000 lb	<del>-</del>	RQ 5000 lb final RQ
1	108-10-1			RQ 2270 kg final RQ

# **US State Regulations**

# **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
ETHANOL - 64-17-5	Carcinogen
	Developmental
METHANOL - 67-56-1	Developmental
METHYL ISOBUTYL KETONE - 108-10-1	Carcinogen
	Developmental

<sup>•</sup> Ethanol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
MAGNESIUM SILICATE	X	X	X
14807-96-6			
ETHANOL	X	X	X
64-17-5			
WATER	-	-	X
7732-18-5			
2-PROPANOL	X	X	X
67-63-0			
METHANOL	X	X	X
67-56-1			
METHYL ISOBUTYL KETONE	X	X	X
108-10-1			

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

### **WHMIS Hazard Class**

B2 - Flammable liquid, D2B - Toxic materials

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 2 Flammability 3 Instability 0 -

HMIS Health hazards 2 Flammability 3 Physical hazards 0 Personal protection B

NFPA (National Fire Protection Association) HMIS (Hazardous Material Information System)

Revision Date 18-Apr-2017

### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**