# **Permatex**

# SAFETY DATA SHEET

Revision Date 05-Apr-2016 Version 3

# 1. IDENTIFICATION

**Product identifier** 

Product Name 1BR FORM A GASKET #1 SEALANT 3 OZ.

Other means of identification

Product Code 80008 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 Address <u>Distributor</u>

ITW Permatex Canada
6875 Parkland Blvd. 35 Brownridge Road, Unit 1
Solon, OH 44139 USA Halton Hills, ON Canada L7G 0C6

Telephone: (800) 924-6994

Company Phone Number 1-87-Permatex

(877) 376-2839

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)

Acute toxicity - Oral	Category 2
Skin sensitization	Category 1
Carcinogenicity	Category 2

### Label elements

### **Emergency Overview**

### Danger

Fatal if swallowed

May cause an allergic skin reaction Suspected of causing cancer



Appearance Reddish golden brown

Physical state Paste

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

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing mists or vapors

Contaminated work clothing should not be allowed out of the workplace

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

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

IF ON SKIN: Wash with plenty of soap and water

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

Wash contaminated clothing before reuse

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

### **Precautionary Statements - Storage**

Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

Not applicable

### Other Information

- Toxic to aquatic life with long lasting effects

Unknown acute toxicity

6.4 % 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	*
ETHANOL	64-17-5	7 - 13	*
2-PROPANOL	67-63-0	1 - 5	*
TITANIUM DIOXIDE	13463-67-7	0.1 - 1	*
CRYSTALLINE SILICA	14808-60-7	0.1 - 1	*
METHYL ISOBUTYL KETONE	108-10-1	0.1 - 1	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

### **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:. Wash with soap and water. If skin irritation or rash occurs: Get medical

advice/attention. 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:. Call a physician or poison control center immediately. Do NOT induce

vomiting. Rinse mouth.

**Self-protection of the first aider**Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

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

None in particular.

**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** 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. Collect spillage. 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 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 locked up.

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/m <sup>3</sup> Formaldehyde
8050-09-7		Formaldehyde	,
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>	-
TITANIUM DIOXIDE	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m³ total dust	IDLH: 5000 mg/m <sup>3</sup>
13463-67-7	_	(vacated) TWA: 10 mg/m³ total dust	_
CRYSTALLINE SILICA	TWA: 0.025 mg/m <sup>3</sup> respirable	(vacated) TWA: 0.1 mg/m <sup>3</sup>	IDLH: 50 mg/m <sup>3</sup> respirable dust
14808-60-7	fraction	respirable dust	TWA: 0.05 mg/m³ respirable dust
		: (30)/(%SiO2 + 2) mg/m <sup>3</sup> TWA	
		total dust	
		: (250)/(%SiO2 + 5) mppcf TWA	
		respirable fraction	
		: (10)/(%SiO2 + 2) mg/m <sup>3</sup> TWA	
		respirable fraction	
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

**Eye/face protection** Wear safety glasses with side shields (or goggles).

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

**Respiratory protection**Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as

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

Air = 1

### Information on basic physical and chemical properties

Physical state Paste

Appearance Reddish golden 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 Does not apply ASTM D 4359
Evaporation rate 7.7 Butyl acetate = 1

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:

Lower flammability limit:

No information available
No information available

Vapor pressure 33 mmHg @ 68°F Vapor density >1

Relative density 1.44

Water solubility Partially soluble

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

Other Information

Softening pointNo information availableMolecular weightNo information available

**VOC Content (%)** 13.5%

Density

No information available

Bulk density

No 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

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Excessive heat.

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** Toxic if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
ROSIN	= 3 mg/kg (Rat) = 7600 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	= 1870 mg/kg (Rat)	= 4059 mg/kg ( Rabbit )	= 72600 mg/m <sup>3</sup> (Rat) 4 h
67-63-0			
TITANIUM DIOXIDE	> 10000 mg/kg (Rat)	-	-
13463-67-7			
CRYSTALLINE SILICA	= 500 mg/kg (Rat)	-	-
14808-60-7			
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 Germ cell mutagenicity**No information available.
No information available.

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

Chemical Name	ACGIH	IARC	NTP	OSHA
ETHANOL	A3	Group 1	Known	X
64-17-5				
TITANIUM DIOXIDE	-	Group 2B	-	X
13463-67-7				
CRYSTALLINE SILICA	A2	Group 1	Known	X
14808-60-7				
METHYL ISOBUTYL	A3	Group 2B	-	X
KETONE				
108-10-1				

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

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, Eyes, Liver, Reproductive System, Respiratory system,

Skin, Thyroid.

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

ATEmix (oral) 12 mg/kg
ATEmix (dermal) 8255 mg/kg
ATEmix (inhalation-dust/mist) 82.1 mg/l

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

7.55 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
ROSIN	400: 72 h Desmodesmus	-	3.8 - 5.4: 48 h Daphnia magna mg/L
8050-09-7	subspicatus mg/L EC50		EC50
ETHANOL	-	12.0 - 16.0: 96 h Oncorhynchus	9268 - 14221: 48 h Daphnia magna
64-17-5		mykiss mL/L LC50 static 100: 96 h	mg/L LC50 2: 48 h Daphnia magna
		Pimephales promelas mg/L LC50	mg/L EC50 Static 10800: 24 h
		static 13400 - 15100: 96 h	Daphnia magna mg/L EC50
		Pimephales promelas mg/L LC50	
		flow-through	
2-PROPANOL	1000: 96 h Desmodesmus	9640: 96 h Pimephales promelas	13299: 48 h Daphnia magna mg/L
67-63-0	subspicatus mg/L EC50 1000: 72 h	, ,	EC50
	Desmodesmus subspicatus mg/L	h Pimephales promelas mg/L LC50	
	EC50	static 1400000: 96 h Lepomis	
		macrochirus µg/L LC50	
METHYL ISOBUTYL KETONE	400: 96 h Pseudokirchneriella	496 - 514: 96 h Pimephales	170: 48 h Daphnia magna mg/L
108-10-1	subcapitata mg/L EC50	promelas mg/L LC50 flow-through	EC50

### 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	
METHYL ISOBUTYL KETONE	1.19
108-10-1	

### Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

# Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated packaging** Do not reuse container.

US EPA Waste Number Not applicable

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
METHYL ISOBUTYL	-	Included in waste stream:	-	U161
KETONE		F039		
108-10-1				

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

# 14. TRANSPORT INFORMATION

DOT

Proper shipping name: Not regulated

<u>IATA</u>

Proper shipping name: Not regulated

IMDG

Proper shipping name: Not regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

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

## 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	
Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No
Reactive Hazard	NO

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# **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)
METHYL ISOBUTYL KETONE	5000 lb	-	RQ 5000 lb final RQ
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
TITANIUM DIOXIDE - 13463-67-7	Carcinogen
CRYSTALLINE SILICA - 14808-60-7	Carcinogen
METHANOL - 67-56-1	Developmental
METHYL ISOBUTYL KETONE - 108-10-1	Carcinogen
	Developmental

### **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
KAOLIN	X	X	X
1332-58-7			
ETHANOL	X	X	X
64-17-5			
2-PROPANOL	X	X	X
67-63-0			
TITANIUM DIOXIDE	X	X	X
13463-67-7			
CRYSTALLINE SILICA	X	X	X
14808-60-7			
METHANOL	X	X	X
67-56-1			
IRON OXIDE	X	X	X
1309-37-1			
METHYL ISOBUTYL KETONE	X	X	X
108-10-1			

# **U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

## **WHMIS Hazard Class**

D2B - Toxic materials

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

NFPA Health hazards 2 Flammability 1 Instability 0

HMIS Health hazards 2 Flammability 1 Physical hazards 0 Personal protection B

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

Revision Date 05-Apr-2016

### 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

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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**