

SAFETY DATA SHEET

Permatex Form A Gasket Sealant Liquid

Revision Date 08-Mar-2016

Version 5

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Product identifier

Product Name

2AR FORM A GASKET #2 SEALANT 1.50Z

Other means of identification

Product Code Synonyms 80015

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

Distributor

ITW Permatex 6875 Parkland Blvd.

ITW Permatex Canada 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

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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 Black

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 dust/fume/gas/mist/vapors/spray
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

- Harmful to aquatic life with long lasting effects

Unknown acute toxicity

1.14 % 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	5 - 10	*
2-PROPANOL	67-63-0	1 - 5	*
CRYSTALLINE SILICA	14808-60-7	1 - 5	*
TITANIUM DIOXIDE	13463-67-7	0.1 - 1	*
CARBON BLACK	1333-86-4	0.1 - 1	*
METHYL ISOBUTYL KETONE	108-10-1	0.1 - 1	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

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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 skin 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

Note to physicians Treat symptomatically.

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.

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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. 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.

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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

Keep container tightly closed in a dry and well-ventilated place. Store locked up.

Incompatible materials

Strong oxidizing agents

8# =XROXSURECONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
ROSIN	•	(vacated) TWA: 0.1 mg/m³	TWA: 0.1 mg/m³ Formaldehyde
8050-09-7		Formaldehyde	
ETHANOL	STEL: 1000 ppm	TWA: 1000 ppm	IDLH: 3300 ppm
64-17-5		TWA: 1900 mg/m ³	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1900 mg/m ³
		(vacated) TWA: 1900 mg/m³	
2-PROPANOL	STEL: 400 ppm	TWA: 400 ppm	IDLH: 2000 ppm
67-63-0	TWA: 200 ppm	TWA: 980 mg/m ³	TWA: 400 ppm
	. ,	(vacated) TWA: 400 ppm	TWA: 980 mg/m ³
		(vacated) TWA: 980 mg/m ³	STEL: 500 ppm
	•	(vacated) STEL: 500 ppm	STEL: 1225 mg/m ³
		(vacated) STEL: 1225 mg/m ³	
CRYSTALLINE SILICA	TWA: 0.025 mg/m³ respirable	(vacated) TWA: 0.1 mg/m ³	IDLH: 50 mg/m³ respirable dust
14808-60-7	fraction	respirable dust	TWA: 0.05 mg/m³ respirable dust
		: (30)/(%SiO2 + 2) mg/m³ TWA	
		total dust	•
		: (250)/(%SiO2 + 5) mppcf TWA	
	•	respirable fraction	
		: (10)/(%SiO2 + 2) mg/m³ TVVA	·
		respirable fraction	
TITANIUM DIOXIDE	TWA: 10 mg/m ³	TWA: 15 mg/m³ total dust	IDLH: 5000 mg/m ³
13463-67-7	·	(vacated) TWA: 10 mg/m³ total dust	
CARBON BLACK	TWA: 3 mg/m³ inhalable fraction	TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³
1333-86-4		(vacated) TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³
			TWA: 0.1 mg/m³ Carbon black in
'	·		presence of Polycyclic aromatic
			hydrocarbons PAH
METHYL ISOBUTYL KETONE	STEL: 75 ppm	TWA: 100 ppm	IDLH: 500 ppm
108-10-1	TWA: 20 ppm	TWA: 410 mg/m ³	TWA: 50 ppm
	1	(vacated) TWA: 50 ppm	TWA: 205 mg/m ³
	· ·	(vacated) TWA: 205 mg/m ³	STEL: 75 ppm
		(vacated) STEL: 75 ppm	STEL: 300 mg/m ³
		(vacated) STEL: 300 mg/m ³	

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.

44 F. 9. PHYSIGALAND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state **Appearance**

Paste Black Alcohol

Odor Odor threshold

No information available

Property

Values

Remarks • Method

pН Melting point / freezing point No information available No information available

Boiling point / boiling range Flash point

82 °C / 180 °F

Does not apply

ASTM D 4359 Ether = 1

Air = 1

Evaporation rate Flammability (solid, gas) 7.7

No information available

Flammability Limit in Air Upper flammability limit:

No information available No information available

Lower flammability limit: Vapor pressure

33 mm Hg @ 68°F

Vapor density

2.0

Relative density

1.5 Partially soluble

Water solubility Solubility in other solvents

No information available No information available

Partition coefficient Autoignition temperature **Decomposition temperature**

No information available No information available No information available No information available

Kinematic viscosity Dynamic viscosity **Explosive properties Oxidizing properties**

No information available No information available

Other Information

Softening point Molecular weight VOC Content (%)

No information available No information available

11%

Density **Bulk density**

No information available No information available

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Reactivity

No data available

Chemical stability

Stable under recommended storage conditions

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Excessive heat.

Incompatible materials

Strong oxidizing agents

Hazardous Decomposition Products

Carbon oxides Aldehydes Carboxylic acids

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

May be fatal 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 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
2-PROPANOL 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m³ (Rat) 4 h
CRYSTALLINE SILICA 14808-60-7	= 500 mg/kg (Rat)	-	
TITANIUM DIOXIDE 13463-67-7	> 10000 mg/kg (Rat)	-	-
CARBON BLACK 1333-86-4	> 15400 mg/kg (Rat)	> 3 g/kg(Rabbit)	
METHYL ISOBUTYL KETONE 108-10-1	= 2080 mg/kg (Rat)	= 3000 mg/kg (Rabbit)	= 8.2 mg/L (Rat) 4 h

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. No information available.

Germ cell mutagenicity Carcinogenicity

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

Chemical Name	ACGIH	IARC	NTP	OSHA
ETHANOL 64-17-5	A3	Group 1	Known	X
CRYSTALLINE SILICA 14808-60-7	A2	Group 1	Known	X
TITANIUM DIOXIDE 13463-67-7	-	Group 2B	-	X
CARBON BLACK 1333-86-4	A3	Group 2B	-	Х
METHYL ISOBUTYL KETONE 108-10-1	A3	Group 2B	-	X

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

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)

19 mg/kg

ATEmix (dermal)

12237 mg/kg

ATEmix (inhalation-dust/mist)

102.2 mg/l

1/2 ECOLOGICAL INFORMATION

Ecotoxicity

2.425 % 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	mg/L LC50 flow-through 11130: 96	EC50
	Desmodesmus subspicatus mg/L	h Pimephales promelas mg/L LC50	
	EC50	static 1400000: 96 h Lepomis	
		macrochirus µg/L LC50	
CARBON BLACK	-	-	5600: 24 h Daphnia magna mg/L
1333-86-4			EC50
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 64-17-5	-0.32
2-PROPANOL 67-63-0	0.05
METHYL ISOBUTYL KETONE 108-10-1	1.19

Other adverse effects

No information available

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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

THE TRANSPORTING PRIMATION

DOT

Proper shipping name:

Not regulated

IATA

Proper shipping name:

Not regulated

IMDG

Proper shipping name:

Not regulated

15 RECULATION

International Inventories

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

Leaend:

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 % 1.0		
2-PROPANOL - 67-63-0			
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		

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	
CRYSTALLINE SILICA - 14808-60-7	Carcinogen	
TITANIUM DIOXIDE - 13463-67-7	Carcinogen	
METHANOL - 67-56-1	Developmental	
CARBON BLACK - 1333-86-4	Carcinogen	
METHYL ISOBUTYL KETONE - 108-10-1	Carcinogen	
	Developmental	

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
KAOLIN 1332-58-7	Х	X	X
ETHANOL 64-17-5	X	X	X
2-PROPANOL 67-63-0	X	Х	X
CRYSTALLINE SILICA 14808-60-7	Х	Х	X .
TITANIUM DIOXIDE 13463-67-7	X	Х	X
METHANOL 67-56-1	X	X	X
CARBON BLACK 1333-86-4	X	X	X
METHYL ISOBUTYL KETONE 108-10-1	X	· X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

WHMIS Hazard Class

D2B - Toxic materials

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NFPA HMIS Health hazards 2 Health hazards 2

Flammability 1 Flammability 1

Instability 0 Physical hazards 0

Personal protection B

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

Revision Date

08-Mar-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 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