

Revision Date 12-Feb-2024

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Version 13

1. IDENTIFICATION

Product identifier Product Name

2AR FORM A GASKET #2 SEALANT 1.5OZ

Other means of identification Product Code

Recommended use of the chemical and restrictions on useRecommended UseSealantUses advised againstNo information available

80015

Details of the supplier of the safety data sheet

Manufacturer Address ITW Permatex, Inc. 6875 Parkland Blvd. Solon, Ohio 44139 USA Telephone: 1-87-Permatex (866) 732-9502 May Also Be Distributed by: **ITW Permatex Canada** 101-2360 Bristol Circle Oakville, ON Canada L6H 6M5 Telephone: (800) 924-6994 **Company Phone Number** 866-732-9502 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)

Carcinogenicity

Category 1A

Label elements

Emergency Overview

Signal word Danger

May cause cancer



Physical state Paste / Gel 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

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention

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 IF ON SKIN: Gently wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed 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. Toxic to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
KAOLIN	1332-58-7	50 - <100%
FUMARATED RESIN	65997-04-8	10 - <20%
ETHANOL	64-17-5	10 - <15%
2-PROPANOL	67-63-0	1 - <2.5%
CRYSTALLINE SILICA	14808-60-7	1 - <2.5%
TITANIUM DIOXIDE	13463-67-7	0.5 - <1%
CARBON BLACK	1333-86-4	0.1 - <0.5%
METHYL ISOBUTYL KETONE	108-10-1	0.1 - <0.5%

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 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:. 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 effe	cts, both acute and delayed			
Symptoms May cause allergic skin reaction.				
Indication of any immediate medical attention and special treatment needed				
Note to physicians	Treat symptomatically.			
	5. FIRE-FIGHTING MEASURES			
<u>Suitable extinguishing media</u> Carbon dioxide (CO2), Use dry chemical, Foam				
<u>Unsuitable extinguishing media</u> 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 e	quipment 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	See section 12 for additional ecological information.
Methods and material for containm	ent 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. Use personal protective equipment as required.

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.			
Incompatible materials	Strong oxidizing agents			

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV OSHA PEL		NIOSH	
KAOLIN 1332-58-7			о I	
ETHANOL 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³	
2-PROPANOL 67-63-0	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³	
CRYSTALLINE SILICA 14808-60-7	TWA: 0.025 mg/m³ respirable particulate matter	 TWA: 50 μg/m³ TWA: 50 μg/m³ excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays (vacated) TWA: 0.1 mg/m³ respirable dust (250)/(%SiO2 + 5) mppcf TWA respirable fraction (10)/(%SiO2 + 2) mg/m³ TWA respirable fraction 	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust	
TITANIUM DIOXIDE 13463-67-7	TWA: 0.2 mg/m ³ nanoscale respirable particulate matter TWA: 2.5 mg/m ³ finescale respirable particulate matter	TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust	IDLH: 5000 mg/m ³ TWA: 2.4 mg/m ³ CIB 63 fine TWA: 0.3 mg/m ³ CIB 63 ultrafine, including engineered nanoscale	
CARBON BLACK 1333-86-4	TWA: 3 mg/m ³ inhalable particulate matter	(vacated) TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH	
METHYL ISOBUTYL KETONE 108-10-1	TWA: 20 ppm STEL: 75 ppm	TWA: 100 ppm TWA: 410 mg/m ³ (vacated) TWA: 50 ppm (vacated) TWA: 205 mg/m ³ (vacated) STEL: 75 ppm	IDLH: 500 ppm TWA: 50 ppm TWA: 205 mg/m ³ STEL: 75 ppm STEL: 300 mg/m ³	

	(vacated) STEL: 300 mg/m ³			
NIOSH IDLH Immediately Dangerous to Life or Health				
Appropriate engineering controls				
Engineering Controls	Showers Eyewash stations Ventilation systems			
Individual protection measures, su	uch 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

9.1. Information on basic physical a	Paste / Gel Liquid	
Physical state	Black	
Appearance Odor	Alcohol	
Odor threshold	No information available	
Odor threshold	No information available	
Property	Values	Remarks • Method
pH	No information available	Itemarks Method
Melting point / freezing point	No information available	
Boiling point / boiling range	82 °C / 179.6 °F	
Flash point	No information available °C / °F	ASTM D 4359
Evaporation rate	7.7	Fther = 1
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	33 mm Hg @ 68°F	
Vapor density	2.0	Air = 1
Relative density	1.5	
Water solubility	Partially soluble	
Solubility(ies)	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Hyphen	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	
Other information		
Softening point	No information available	
Molecular weight	No information available	
VOC content	11%	
Density	No information available	
Bulk density	No information available	
SADT (self-accelerating	No information available	
decomposition temperature)		
decomposition temperature)		

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Stable under normal 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

Ingestion

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. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion may cause irritation to mucous membranes.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
KAOLIN	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
1332-58-7			
FUMARATED RESIN	> 2000 mg/kg (Rat)	= 2000 mg/kg (Rat)	-
65997-04-8			
ETHANOL	= 7060 mg/kg (Rat)	-	= 116.9 mg/L (Rat) 4 h
64-17-5			= 133.8 mg/L (Rat) 4 h
2-PROPANOL	5050 mg/kg	12800 mg/kg	> 10000 ppm (Rat) 6 h
67-63-0			
TITANIUM DIOXIDE	> 10000 mg/kg (Rat)	-	= 5.09 mg/L (Rat) 4 h
13463-67-7			
CARBON BLACK	> 15400 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 4.6 mg/m ³ (Rat) 4 h
1333-86-4			
METHYL ISOBUTYL KETONE	= 2080 mg/kg (Rat)	= 3000 mg/kg (Rabbit)	2000 - 4000 ppm (Rat) 4 h
108-10-1			

Symptoms related to the physical, chemical and toxicological characteristics

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.

Chemical name	ACGIH	IARC	NTP	OSHA
ETHANOL 64-17-5	A3	Group 1	Known	X
CRYSTALLINE SILICA 14808-60-7	A2	Group 1	Known	Х
TITANIUM DIOXIDE 13463-67-7	A3	Group 2B	-	Х
CARBON BLACK 1333-86-4	A3	Group 2B	-	Х
METHYL ISOBUTYL KETONE 108-10-1	A3	Group 2B	-	Х
Group 1 - Carcinogenic t Group 2B - Possibly Card NTP (National Toxicolo Known - Known Carcinog Occupational Safety an X - Present	cinogenic to Humans gy Program) gen d Health Administration of	f the US Department of Labor		
Chronic toxicity Target organ effects	adverse live	adverse effects on the bone er effects. Contains a known tral nervous system, Eyes, L id, Lungs.	or suspected reproductive	e toxin.
The following values are ATEmix (oral) ATEmix (dermal)	calculated based on cl 7016 mg/k 10473 mg/	0	ument	

	7010 mg/kg
ATEmix (dermal)	10473 mg/kg
ATEmix (inhalation-dust/mist)	102.2 mg/l
ATEmix (inhalation-vapor)	1060527.4 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

0.042 % of the mixture consists of component(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
FUMARATED RESIN	7
65997-04-8	
ETHANOL	-0.35
64-17-5	
2-PROPANOL	0.05
67-63-0	
METHYL ISOBUTYL KETONE	1.9
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	U154 U161

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
IATA 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	Does not comply			
IECSC	Complies			
KECI	Complies			
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
METHYL ISOBUTYL KETONE - 108-10-1	0.1
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	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
METHYL ISOBUTYL KETONE 108-10-1	5000 lb	-	RQ 5000 lb final RQ 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	Carcinogen
64-17-5	Developmental
CRYSTALLINE SILICA	*Carcinogen
14808-60-7	
TITANIUM DIOXIDE	*Carcinogen (airborne, unbound particles of respirable size)
13463-67-7	
METHANOL	Developmental
67-56-1	
CARBON BLACK	*Carcinogen (airborne, unbound particles of respirable size)
1333-86-4	
METHYL ISOBUTYL KETONE	Carcinogen
108-10-1	Developmental

• *The asterisked chemical(s) listed are not subject to Proposition 65 because they are not airborne in the finished product

• Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage

• Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
KAOLIN 1332-58-7	Х	Х	Х
ETHANOL 64-17-5	Х	Х	Х
WATER 7732-18-5	-	-	Х
CARBON BLACK 1333-86-4	Х	Х	Х
METHYL ISOBUTYL KETONE 108-10-1	Х	Х	Х

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

<u>NFPA</u>	Health hazards 2	Flammability 1	Instability 0	-
HMIS	Health hazards 2	Flammability 1	Physical hazards 0	Personal protection B

Revision Date

12-Feb-2024

<u>Disclaimer</u>

Illinois Tool Works Inc. believes the information contained in this data sheet is accurate as of the date compiled. However,Illinois Tool Works Inc. makes no warranty, express or implied, as to the accuracy, reliability or completeness of theinformation. User is responsible for evaluating whether such information or this product is fit for a particular purposeand suitable for a particular use or application. The information in this data sheet may not be valid if this product is usedin combination with other products or in processes for which it was not designed. Illinois Tool Works Inc. disclaims anyliability for consequential or incidental damages of any kind, including lost profits, arising from the sale or use of thisproduct. Ensure you have the most current version of this data sheet by contacting us or reviewing our web site.

End of Safety Data Sheet