80697



Revision Date 06-Feb-2019

# SAFETY DATA SHEET

Version 8

# **1. IDENTIFICATION**

#### Product identifier Product Name

PX 101MA COPPER GASKET SEALANT 9 OZ .

Other means of identification Product Code

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

Details of the supplier of the safety data sheet Manufacturer Address ITW Permatex 6875 Parkland Blvd. Solon, Ohio 44139 USA Telephone: 1-87-Permatex (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

May Also Be Distributed by: ITW Permatex Canada 101-2360 Bristol Circle Oakville, ON Canada L6H 6M5 Telephone: (800) 924-6994

## 2. HAZARDS IDENTIFICATION

#### **Classification**

#### OSHA Regulatory Status

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

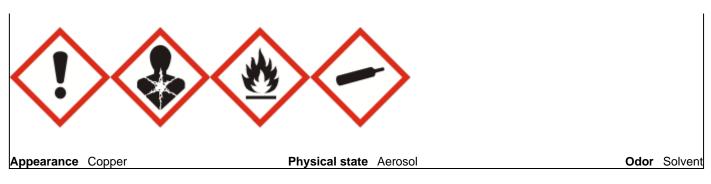
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Extremely flammable aerosol	Category 1
Gases under pressure	Liquefied gas

#### Label elements

#### **Emergency Overview**

#### Signal word Danger

Causes serious eye irritation Suspected of causing cancer May cause drowsiness or dizziness Extremely flammable aerosol Pressurized container: May burst if heated



# **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 Wear eye/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

#### **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 INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

#### **Precautionary Statements - Storage**

Store locked up Protect from sunlight. Store in a well-ventilated place Do not expose to temperatures exceeding 122 °F (50 °C)

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

The classification as a carcinogen or mutagen need not apply since it can be shown that the substance contains less than 0.1 % w/w 1,3-butadiene (EINECS No. 203-450-8)

The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

Unknown acute toxicity

2.5 % of the mixture consists of ingredient(s) of unknown toxicity

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
BUTANE	106-97-8	15 - 40
DICHLOROMETHANE	75-09-2	10 - 30
ACETONE	67-64-1	10 - 30
PROPANE	74-98-6	10 - 30
ETHYL ACETATE	141-78-6	3 - 7
COPPER	7440-50-8	1 - 5
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPH.	64742-89-8	1 - 5

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PROPYLENE OXIDE	75-56-9 <0.1			
	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 persists, call a physician. Take off contaminated clothing and wash 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 eff	ects, both acute and delayed			
Symptoms	See section 2 for more information.			
Indication of any immediate medic	cal attention and special treatment needed			
Note to physicians Treat symptomatically.				
5. FIRE-FIGHTING MEASURES				
Suitable extinguishing media Carbon dioxide (CO2), Dry chemical	, Foam			
Unsuitable extinguishing media Do not use a solid water stream as it	t may scatter and spread fire			
Specific hazards arising from the Extremely flammable. Contains gas	<u>chemical</u> under pressure; may explode if heated. Vapors may travel to source of ignition and flash back.			
Explosion data Sensitivity to Mechanical Impact Sensitivity to Static Discharge	None. 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	equipment and emergency procedures			
Personal precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not puncture or incinerate cans. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Use personal protective equipment as required.			

Other Information	Ventilate the area.			
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	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. 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. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Contents under pressure. Take precautionary measures against static discharges. Do not puncture or incinerate cans.			
Conditions for safe storage, including any incompatibilities				
Storage Conditions	Protect from sunlight. Do not expose to temperatures exceeding 50 $^{\circ}\text{C}/122$ $^{\circ}\text{F}.$ Store locked up.			
Incompatible materials	Strong oxidizing agents, Alkalis			

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### **Exposure Guidelines**

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Chemical Name	emical Name ACGIH TLV OSHA PEL		
BUTANE	STEL: 1000 ppm explosion	(vacated) TWA: 800 ppm	IDLH: 1600 ppm
106-97-8	hazard	(vacated) TWA: 1900 mg/m <sup>3</sup>	TWA: 800 ppm
			TWA: 1900 mg/m <sup>3</sup>
DICHLOROMETHANE	TWA: 50 ppm	TWA: 25 ppm	IDLH: 2300 ppm
75-09-2		(vacated) TWA: 500 ppm	
		(vacated) STEL: 2000 ppm 5 min	
		in any 3 h	
		(vacated) Ceiling: 1000 ppm	
		STEL: 125 ppm see 29 CFR	
		1910.1052	
ACETONE	STEL: 500 ppm	TWA: 1000 ppm	IDLH: 2500 ppm
67-64-1	TWA: 250 ppm	TWA: 2400 mg/m <sup>3</sup>	TWA: 250 ppm
		(vacated) TWA: 750 ppm	TWA: 590 mg/m <sup>3</sup>
		(vacated) TWA: 1800 mg/m <sup>3</sup>	
		(vacated) STEL: 2400 mg/m <sup>3</sup>	
		The acetone STEL does not apply	
		to the cellulose acetate fiber	
		industry. It is in effect for all other	
		sectors.	
		(vacated) STEL: 1000 ppm	
PROPANE	: See Appendix F: Minimal	TWA: 1000 ppm	IDLH: 2100 ppm
74-98-6	Oxygen Content, explosion hazard	TWA: 1800 mg/m <sup>3</sup>	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1800 mg/m <sup>3</sup>

		(vacated) TWA: 1800 mg/m <sup>3</sup>	
ETHYL ACETATE	TWA: 400 ppm	TWA: 400 ppm	IDLH: 2000 ppm
141-78-6		TWA: 1400 mg/m <sup>3</sup>	TWA: 400 ppm
		(vacated) TWA: 400 ppm	TWA: 1400 mg/m <sup>3</sup>
		(vacated) TWA: 1400 mg/m <sup>3</sup>	_
COPPER	TWA: 0.2 mg/m <sup>3</sup> fume TWA: 1	TWA: 0.1 mg/m <sup>3</sup> fume	IDLH: 100 mg/m <sup>3</sup> dust, fume and
7440-50-8	mg/m <sup>3</sup> Cu dust and mist	TWA: 1 mg/m <sup>3</sup> dust and mist	mist IDLH: 100 mg/m <sup>3</sup> Cu dust and
		(vacated) TWA: 0.1 mg/m <sup>3</sup> Cu dust,	mist
		fume, mist	TWA: 1 mg/m <sup>3</sup> dust and mist
			TWA: 0.1 mg/m <sup>3</sup> fume TWA: 1
			mg/m <sup>3</sup> Cu dust and mist
PROPYLENE OXIDE	TWA: 2 ppm	TWA: 100 ppm	IDLH: 400 ppm
75-56-9		TWA: 240 mg/m <sup>3</sup>	
		(vacated) TWA: 20 ppm	
		(vacated) TWA: 50 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

9.1. Information on basic physical a	nd chemical properties	
Physical state	Aerosol	
Appearance	Copper	
Odor	Solvent	
Odor threshold	No information available	
Property pH	<u>Values</u> No information available	Remarks • Method
Melting point / freezing point	No information available	
Boiling point / boiling range	56 °C / 133 °F	
Flash point	-104 °C / -156 °F	Gives a flame projection at full valve opening or flashback at any degree of valve opening
Evaporation rate	No information available	
Flammability (solid, gas) Flammability Limit in Air	No information available	
Upper flammability limit:	16.8%	
Lower flammability limit:	8.7%	
Vapor pressure	40 psig @ 21°C	
Vapor density	No information available	
Relative density	1.05	
Water solubility	No information available	
Solubility(ies)	No information available	

Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties

Other Information Softening point Molecular weight VOC Content (%) Density Bulk density SADT (self-accelerating decomposition temperature) No information available No information available

No information available No information available 44.9% No information available No information available No information available

## **10. STABILITY AND REACTIVITY**

<u>Reactivity</u> No information available

#### Chemical stability

Stable under normal conditions

#### Possibility of Hazardous Reactions

None under normal processing.

#### Conditions to avoid

Heat, flames and sparks. Take precautionary measures against static discharges.

#### Incompatible materials

Strong oxidizing agents, Alkalis

#### **Hazardous Decomposition Products**

Carbon oxides Hydrogen chloride

## **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Inhalation	May cause irritation of respiratory tract. May cause drowsiness or dizziness.
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.
Ingestion	Ingestion may cause irritation to mucous membranes.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
BUTANE	-	-	= 658 g/m <sup>3</sup> (Rat) 4 h
106-97-8			
DICHLOROMETHANE	= 1600 mg/kg (Rat)	-	= 53 mg/L (Rat) 6 h = 76000
75-09-2			mg/m <sup>3</sup> (Rat)4 h
ACETONE	= 5800 mg/kg (Rat)	> 15700 mg/kg (Rabbit)	= 50100 mg/m <sup>3</sup> (Rat) 8 h
67-64-1			
PROPANE	-	-	> 800000 ppm (Rat) 15 min
74-98-6			
ETHYL ACETATE	= 5620 mg/kg (Rat)	> 18000 mg/kg (Rabbit) > 20	= 4000 ppm (Rat) 4 h
141-78-6		mL/kg (Rabbit)	
SOLVENT NAPHTHA	-	= 3000 mg/kg (Rabbit)	-

(PETROLEUM), LIGHT ALIPH 64742-89-8	H.						
PROPYLENE OXIDE 75-56-9	=	= 520 mg/kg ( Rat ) = 1244 mg/kg ( Rabbit ) = 0.948 mg/L ( Rat ) 4 h					948 mg/L (Rat)4 h
Information on toxicolog	ical effects						
Symptoms	ymptoms No information available.						
Delayed and immediate e	effects as well	as chronic	c effects fror	n short and	long-term exposu	ire	
SensitizationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityThe table below indicates whether each agency has listed any ingredient as a carcinogen.						dient as a carcinogen.	
Chemical Name	ACGI		IA		NTP		OSHA
DICHLOROMETHANE 75-09-2	A3		Group 2A		Reasonably Anticipated		Х
PROPYLENE OXIDE 75-56-9	A3	A3 Group 2B Reasonably Anticipated X					
ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen IARC (International Agency for Research on Cancer) Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans NTP (National Toxicology Program) Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present Chronic toxicity Target Organ Effects May cause adverse liver effects. Central nervous system, Central Vascular System (CVS), Eyes, kidney, Liver, Respiratory system, Skin.							
The following values are calculated based on chapter 3.1 of the GHS document .   ATEmix (oral) 5387 mg/kg   ATEmix (dermal) 90022 mg/kg   ATEmix (inhalation-dust/mist) 334 mg/l							

# **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

40.5 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

#### Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

#### <u>Mobility</u>

No information available.

Chemical Name	Partition coefficient
BUTANE	2.89
106-97-8	
DICHLOROMETHANE	1.25
75-09-2	
ACETONE	-0.24
67-64-1	
PROPANE	2.3
74-98-6	
ETHYL ACETATE	0.6
141-78-6	

PROPYLENE OXIDE	0.08
75-56-9	

## 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	D001

Chemical Name	RCRA - Halogenated	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
	Organic Compounds			
DICHLOROMETHANE	Category I - Volatiles	-	Toxic waste	-
75-09-2			waste number F025	
			Waste description:	
			Condensed light ends, spent	
			filters and filter aids, and	
			spent desiccant wastes from	
			the production of certain	
			chlorinated aliphatic	
			hydrocarbons, by free	
			radical catalyzed processes.	
			These chlorinated aliphatic	
			hydrocarbons are those	
			having carbon chain lengths	
			ranging from one to and	
			including five, with varying	
			amounts and positions of	
			chlorine substitution.	

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
DICHLOROMETHANE	Toxic
75-09-2	
ACETONE	Ignitable
67-64-1	
ETHYL ACETATE	Toxic
141-78-6	Ignitable
COPPER	Toxic
7440-50-8	
PROPYLENE OXIDE	Toxic
75-56-9	Ignitable

# 14. TRANSPORT INFORMATION

DOT

UN/ID No	UN 1950
Proper shipping name:	Aerosols, Limited Quantity (LQ)
Hazard Class	2.1
Emergency Response Guide	126
Number	

<u>IATA</u>

UN/ID No	UN 1950
Proper shipping name:	Aerosols, flammable
Hazard Class	2.1
ERG Code	10L

IMDG	
UN/ID No	UN 1950
Proper shipping name:	Aerosols, Limited Quantity (LQ)
Hazard Class	2.1
EmS-No	F-D, S-U

# **15. REGULATORY INFORMATION**

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

#### 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 %
DICHLOROMETHANE - 75-09-2	0.1
COPPER - 7440-50-8	1.0
PROPYLENE OXIDE - 75-56-9	0.1
SARA 311/312 Hazard Categories	
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 contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
DICHLOROMETHANE 75-09-2	-	Х	Х	-
COPPER 7440-50-8	-	Х	Х	-
PROPYLENE OXIDE 75-56-9	100 lb	-	-	Х

#### 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)
DICHLOROMETHANE	1000 lb 1 lb	-	RQ 1000 lb final RQ
75-09-2			RQ 454 kg final RQ RQ 1 lb final
			RQ
			RQ 0.454 kg final RQ
ACETONE	5000 lb	-	RQ 5000 lb final RQ
67-64-1			RQ 2270 kg final RQ
ETHYL ACETATE	5000 lb	-	RQ 5000 lb final RQ
141-78-6			RQ 2270 kg final RQ
COPPER	5000 lb	-	RQ 5000 lb final RQ
7440-50-8			RQ 2270 kg final RQ
PROPYLENE OXIDE	100 lb	100 lb	RQ 100 lb final RQ
75-56-9			RQ 45.4 kg final RQ

#### US State Regulations

#### **California Proposition 65**

WARNING: This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm

Chemical Name	California Proposition 65
DICHLOROMETHANE - 75-09-2	Carcinogen
PROPYLENE OXIDE - 75-56-9	Carcinogen

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
BUTANE	Х	Х	Х
106-97-8			
ACETONE	Х	Х	Х
67-64-1			
DICHLOROMETHANE	Х	Х	Х
75-09-2			
PROPANE	Х	Х	Х
74-98-6			
ETHYL ACETATE	Х	Х	Х
141-78-6			
COPPER	Х	Х	Х
7440-50-8			
PROPYLENE OXIDE	Х	Х	Х
75-56-9			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

#### WHMIS Hazard Class

A Compressed gases, B5 - Flammable aerosol, D2B - Toxic materials

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

NFPA	
HMIS	_

Health hazards 2 Health hazards 2 Flammability 3 Flammability 3 Instability 0 Physical hazards 0

Personal protection B

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

#### **Revision Date**

06-Feb-2019

#### 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