

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

80697

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

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# 2. HAZARDS IDENTIFICATION

#### **Classification**

#### OSHA Regulatory Status

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

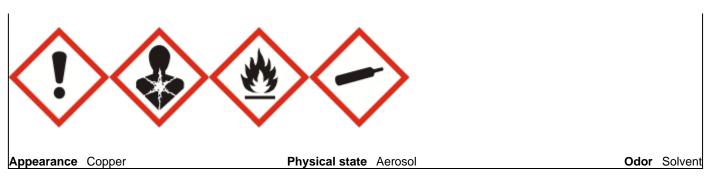
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Extremely flammable aerosol	Category 1
Gases under pressure	Liquefied gas

#### 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		
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 effect	cts, 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.		
	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 may scatter and spread fire

#### Specific hazards arising from the chemical

Extremely flammable. Contains gas under pressure; may explode if heated. 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
 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.				

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 °C/122 °F. Store locked up. Incompatible materials Strong oxidizing agents, Alkalis

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
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	and chemical properties_	
Physical state	Aerosol	
Appearance	Copper	
Odor	Solvent	
Odor threshold	No information available	
_		
Property	Values	Remarks • Method
рН	No information available	
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)	No information available	
Flammability Limit in Air		
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	No information available	

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**

#### Reactivity

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/m³ (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						
PROPYLENE OXIDE 75-56-9	= 520 mg/kg	(Rat)	Rat ) = 1244 mg/kg (Rabbit )		= 0.948 mg/L (Rat)4 h	
Information on toxicolog	ical effects					
Symptoms	No informati	No information available.				
Delayed and immediate e	ffects as well as chroni	c effects from	n short and	long-term exposure	<u>e</u>	
Sensitization	No informati	on available.				
Germ cell mutagenicity	No informati	on available.				
Carcinogenicity	The table be	low indicates	whether each	n agency has listed a	anv ingredien	t as a carcinogen.
Chemical Name	ACGIH	IAI		NTP		OSHA
DICHLOROMETHANE	A3	Grou	ip 2A	Reasonably Anticipated		Х
75-09-2						
PROPYLENE OXIDE	A3	Grou	ıp 2B	Reasonably Anticipated		Х
75-56-9						
A3 - Animal Carcinogen IARC (International Age Group 2A - Probably Carc Group 2B - Possibly Carc NTP (National Toxicolog Reasonably Anticipated - OSHA (Occupational Sa X - Present Chronic toxicity	inogenic to Humans gy Program) Reasonably Anticipated to b fety and Health Administra May cause a	er) ee a Human Car ation of the US adverse liver e	<i>cinogen</i> Department c ffects.			
Target Organ Effects	system, Skir	).		lar System (CVS), E	yes, kidney,	Liver, Respiratory
The following values are ATEmix (oral) ATEmix (dermal) ATEmix (inhalation-d	5387 mg/kg 90022 mg/k	-	he GHS doci	ument .		

# **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.

#### **Mobility**

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 Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
DICHLOROMETHANE 75-09-2	Category I - Volatiles	-	Toxic waste 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	-

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**

|--|

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

Proper shipping name: Hazard Class ERG Code	Aerosols, flammable, Containing substances in Division 6.1, Packing Group III, Limited Quantity (LQ) 2.1, 6.1 10L
IMDG UN/ID No Proper shipping name: Hazard Class EmS-No	UN 1950 Aerosols, Limited Quantity (LQ) 2.1 F-D, S-U

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	Carcinogen
75-09-2	Ŭ
PROPYLENE OXIDE	Carcinogen
75-56-9	, , , , , , , , , , , , , , , , , , ,

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

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

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End of Safety Data Sheet