

SAFETY DATA SHEET

Revision Date 06-Feb-2019 Version 8

1. IDENTIFICATION

Product identifier

Product Name PX 101MA COPPER GASKET SEALANT 9 OZ.

Other means of identification

Product Code 80697

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

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



Appearance Copper Physical state Aerosol Odor Solvent

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 lf eve 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 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

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 containment 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 °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 ³	TWA: 800 ppm
			TWA: 1900 mg/m ³
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 ³	TWA: 250 ppm
		(vacated) TWA: 750 ppm	TWA: 590 mg/m ³
		(vacated) TWA: 1800 mg/m ³	
		(vacated) STEL: 2400 mg/m ³	
		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 ³	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1800 mg/m ³

Gives a flame projection at full valve opening or

flashback at any degree of valve opening

		(vacated) TWA: 1800 mg/m ³	
ETHYL ACETATE	TWA: 400 ppm	TWA: 400 ppm	IDLH: 2000 ppm
141-78-6		TWA: 1400 mg/m ³	TWA: 400 ppm
		(vacated) TWA: 400 ppm	TWA: 1400 mg/m ³
		(vacated) TWA: 1400 mg/m ³	_
COPPER	TWA: 0.2 mg/m³ fume TWA: 1	TWA: 0.1 mg/m³ fume	IDLH: 100 mg/m ³ dust, fume and
7440-50-8	mg/m ³ Cu dust and mist	TWA: 1 mg/m ³ dust and mist	mist IDLH: 100 mg/m ³ Cu dust and
		(vacated) TWA: 0.1 mg/m ³ Cu dust,	mist
		fume, mist	TWA: 1 mg/m ³ dust and mist
			TWA: 0.1 mg/m ³ fume TWA: 1
			mg/m³ Cu dust and mist
PROPYLENE OXIDE	TWA: 2 ppm	TWA: 100 ppm	IDLH: 400 ppm
75-56-9		TWA: 240 mg/m ³	
		(vacated) TWA: 20 ppm	
		(vacated) TWA: 50 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.

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

<u>Property</u> <u>Values</u> <u>Remarks</u> • <u>Method</u>

PH
No information available
No information available
No information available
No information available
So or / 133 or
Flash point
No information available
No information available
No information available
No information available

Evaporation rate No information available

Flammability (solid, gas)

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 coefficientNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information availableKinematic viscosityNo information availableDynamic viscosityNo information availableExplosive propertiesNo information availableOxidizing propertiesNo information available

Other Information

Softening point No information available Molecular weight No information available

VOC Content (%) 44.9%

DensityNo information availableBulk densityNo information availableSADT (self-accelerating)No information available

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

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 106-97-8	-	-	= 658 g/m ³ (Rat) 4 h
DICHLOROMETHANE 75-09-2	= 1600 mg/kg (Rat)	-	= 53 mg/L (Rat) 6 h = 76000 mg/m³ (Rat) 4 h
ACETONE 67-64-1	= 5800 mg/kg (Rat)	> 15700 mg/kg (Rabbit)	= 50100 mg/m³ (Rat) 8 h
PROPANE 74-98-6	-	-	> 800000 ppm (Rat) 15 min
ETHYL ACETATE 141-78-6	= 5620 mg/kg (Rat)	> 18000 mg/kg (Rabbit) > 20 mL/kg (Rabbit)	= 4000 ppm (Rat) 4 h
SOLVENT NAPHTHA	-	= 3000 mg/kg (Rabbit)	-

(PETROLEUM), LIGHT ALIPH. 64742-89-8			
PROPYLENE OXIDE 75-56-9	= 520 mg/kg (Rat)	= 1244 mg/kg (Rabbit)	= 0.948 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. 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
DICHLOROMETHANE 75-09-2	A3	Group 2A	Reasonably Anticipated	X
PROPYLENE OXIDE 75-56-9	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 May cause adverse liver effects.

Target Organ 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.

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	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 Not determined **ENCS** Not determined **IECSC** Not determined **KECL 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	-	X	X	-
COPPER 7440-50-8	-	X	X	-
PROPYLENE OXIDE	100 lb	-	-	Х
75-56-9				

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	X	X	X
106-97-8			
ACETONE	X	X	X
67-64-1			
DICHLOROMETHANE	X	X	X
75-09-2			
PROPANE	X	X	X
74-98-6			
ETHYL ACETATE	X	X	X
141-78-6			
COPPER	X	X	X
7440-50-8			
PROPYLENE OXIDE	X	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 Health hazards 2 Flammability 3 Instability 0

Health hazards 2 Flammability 3 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