

SAFETY DATA SHEET

Revision Date 14-Mar-2016 Version 4

1. IDENTIFICATION

Product identifier

Product Name 101MA COPPER SPRAY-A-GASKET 9 OZ

Other means of identification

Product Code 80697 Synonyms None

Recommended use of the chemical and restrictions on use
Recommended Use Flammable Aerosol, Sealant
Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address <u>Distributor</u>

ITW Permatex Canada
6875 Parkland Blvd. 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

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

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 Liquid 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 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 if it can be shown that the substance contains less than 0.1 % w/w 1,3-butadiene (EINECS No. 203-450-8). If the substance is not classified as a carcinogen or mutagen, at least the S-phrases (2-)9-16 (Table 3.2) should apply. This note applies only to certain complex oil-derived substances in Part 3

Unknown acute toxicity

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

substance(s)

Chemical Name	CAS No	Weight-%	Trade Secret
PETROLEUM GASES, LIQUEFIED, SWEETENED	68476-86-8	30 - 60	*
ACETONE	67-64-1	15 - 40	*
DICHLOROMETHANE	75-09-2	10 - 30	*
ETHYL ACETATE	141-78-6	3 - 7	*
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPH.	64742-89-8	1 - 5	*
COPPER	7440-50-8	1 - 5	*

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

4. FIRST AID MEASURES

Revision Date 14-Mar-2016

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.

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

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

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2), Dry chemical, Foam

Unsuitable extinguishing media

None.

Specific hazards arising from the chemical

Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

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 Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin.

Use personal protective equipment as required.

Other Information ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

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 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.

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 Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric

motors and static electricity). 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
ACETONE	STEL: 750 ppm	TWA: 1000 ppm	IDLH: 2500 ppm
67-64-1	TWA: 500 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	
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	
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: 1 mg/m³ Cu dust and mist	TWA: 0.1 mg/m³ fume	IDLH: 100 mg/m ³ Cu dust and mist
7440-50-8		TWA: 1 mg/m³ dust and mist	TWA: 1 mg/m³ Cu dust and mist
		(vacated) TWA: 0.1 mg/m³ Cu dust,	
		fume, mist	

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 protectionUse 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

Information on basic physical and chemical properties

Physical state Liquid; Aerosol Appearance Copper Solvent

Odor threshold No information available

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

pH No information available
No information available
No information available
No information available
> 38 °C / >100 °F

Flash point No information available Gives a flame projection at full valve opening or

flashback at any degree of valve opening

Air = 1

Evaporation rate >1 Butyl acetate = 1

No information available

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: No information available Lower flammability limit: No information available

Vapor pressure Not determined

Vapor density >1
Relative density 1.05
Water solubility Negligible

Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties
No information available

Other Information

Oxidizing properties

Softening point No information available Molecular weight No information available

VOC Content (%) 44.9%

Density

No information available

No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage 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 Vapors may be irritating to eyes, nose, throat, and lungs. May cause central nervous

system depression with nausea, headache, dizziness, vomiting, and incoordination.

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
ACETONE	= 5800 mg/kg (Rat)	-	= 50100 mg/m ³ (Rat) 8 h
67-64-1			
DICHLOROMETHANE	= 1600 mg/kg (Rat)	-	= 53 mg/L (Rat) 6 h = 76000
75-09-2			mg/m³ (Rat)4 h
ETHYL ACETATE	= 5620 mg/kg (Rat)	> 18000 mg/kg (Rabbit) > 20	-
141-78-6		mL/kg (Rabbit)	
SOLVENT NAPHTHA	-	= 3000 mg/kg (Rabbit)	-
(PETROLEUM), LIGHT ALIPH.			
64742-89-8			

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Germ cell mutagenicityNo information available.
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	A3	Group 2A	Reasonably Anticipated	X
75-09-2		-		

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2A - Probably 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, Lungs.

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 components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
ACETONE 67-64-1		4.74 - 6.33: 96 h Oncorhynchus mykiss mL/L LC50 6210 - 8120: 96 h Pimephales promelas mg/L LC50 static 8300: 96 h Lepomis macrochirus mg/L LC50	10294 - 17704: 48 h Daphnia magna mg/L EC50 Static 12600 - 12700: 48 h Daphnia magna mg/L EC50
DICHLOROMETHANE 75-09-2	500: 96 h Pseudokirchneriella subcapitata mg/L EC50 500: 72 h Pseudokirchneriella subcapitata mg/L EC50	140.8 - 277.8: 96 h Pimephales promelas mg/L LC50 flow-through 262 - 855: 96 h Pimephales promelas mg/L LC50 static 193: 96 h Lepomis macrochirus mg/L LC50 static 193: 96 h Lepomis macrochirus mg/L LC50 flow-through	1532 - 1847: 48 h Daphnia magna mg/L EC50 Static 190: 48 h Daphnia magna mg/L EC50
ETHYL ACETATE 141-78-6	3300: 48 h Desmodesmus subspicatus mg/L EC50	352 - 500: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 220 - 250: 96 h Pimephales promelas mg/L LC50 flow-through 484: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	560: 48 h Daphnia magna mg/L EC50 Static
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPH. 64742-89-8	4700: 72 h Pseudokirchneriella subcapitata mg/L EC50	-	-
COPPER 7440-50-8	0.0426 - 0.0535: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.031 - 0.054: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	0.2: 96 h Pimephales promelas mg/L LC50 flow-through 0.052: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 1.25: 96 h Lepomis macrochirus mg/L LC50 static 0.3: 96 h Cyprinus carpio mg/L LC50 semi-static 0.8: 96 h Cyprinus carpio mg/L LC50 static 0.112: 96 h Poecilia reticulata mg/L LC50 flow-through 0.0068 - 0.0156: 96 h Pimephales promelas mg/L LC50 0.3: 96 h Pimephales promelas mg/L LC50 static	0.03: 48 h Daphnia magna mg/L EC50 Static

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Chemical Name	Partition coefficient
PETROLEUM GASES, LIQUEFIED, SWEETENED	<=2.8
68476-86-8	
ACETONE	-0.24
67-64-1	
DICHLOROMETHANE	1.25
75-09-2	
ETHYL ACETATE	0.6
141-78-6	

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, F002

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
ACETONE	-	Included in waste stream:	-	U002
67-64-1		F039		
DICHLOROMETHANE 75-09-2	-	Included in waste streams: F001, F002, F024, F025, F039, K009, K010, K156, K157, K158	-	U080
ETHYL ACETATE 141-78-6	-	Included in waste stream: F039	-	U112

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

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

IATA

UN/ID no UN 1950

Proper shipping name: Aerosols, flammable, containing, substances, Division, 6.1, Packing group III

Hazard Class 2.1 Subsidiary hazard class 6.1 ERG Code 10P

IMDG

UN/ID no
Proper shipping name:
Hazard Class
EmS-No
UN 1950
Aerosols
2.1
F-D, S-U

15. REGULATORY INFORMATION

International Inventories

TSCA Complies Complies **DSL/NDSL EINECS/ELINCS** Complies **ENCS** Not Listed. Complies **IECSC** Complies **KECL 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 %
DICHLOROMETHANE - 75-09-2	0.1
COPPER - 7440-50-8	1.0

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	=	X	X	-
75-09-2				
COPPER	=	X	X	-
7440-50-8				

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)
ACETONE	5000 lb	-	RQ 5000 lb final RQ
67-64-1			RQ 2270 kg final RQ
DICHLOROMETHANE	1 lb	-	RQ 1 lb final RQ
75-09-2			RQ 0.454 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

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65	
DICHLOROMETHANE - 75-09-2	Carcinogen	

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
ACETONE	X	X	X
67-64-1			
DICHLOROMETHANE	X	X	X
75-09-2			
ETHYL ACETATE	X	X	X
141-78-6			
COPPER	X	X	X
7440-50-8			

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 3 Flammability 3 Instability 0

HMIS Health hazards 3 Flammability 3 Physical hazards 0 Personal protection B

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

Revision Date 14-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