# **Permatex.**

# SAFETY DATA SHEET

Revision Date 29-Feb-2016 Version 2

# 1. IDENTIFICATION

**Product identifier** 

Product Name PC 09227 REAR WINDOW DEFOGGER REPAIR KIT PART 2

Other means of identification

Product Code 390144C Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Coating

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufactured and Distributed by:May Also Be Distributed by:ITW PermatexITW Permatex Canada6875 Parkland Blvd.35 Brownridge Road, Unit 1Solon, OH 44139 USAHalton 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
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

#### Label elements

# **Emergency Overview**

# Danger

Causes serious eye irritation May cause drowsiness or dizziness Highly flammable liquid and vapor



Appearance Copper Physical state Liquid Odor Alcohol

#### **Precautionary Statements - Prevention**

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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

# **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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

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

In case of fire: Use CO2, dry chemical, or foam for extinction

# **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

Not applicable

# Other Information

- Not applicable

Unknown acute toxicity

6.02 % of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# substance(s)

Chemical Name	CAS No	Weight-%	Trade Secret
SILVER	7440-22-4	30 - 60	*
ETHYL ACETATE	141-78-6	10 - 30	*
ETHANOL	64-17-5	10 - 30	*
1-METHOXY-2-PROPANOL ACETATE	108-65-6	7 - 13	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES	

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**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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower. If symptoms persist, 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

**Note to physicians**Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2), Dry chemical, Foam

Unsuitable extinguishing media

None.

Specific hazards arising from the chemical

Highly flammable. May be ignited by heat, sparks or flames.

**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 In case of fire: Stop leak if safe to do so. Avoid breathing vapors or mists. Avoid contact

with eyes and skin. Use personal protection recommended in Section 8. Use personal

protective equipment as required. Remove all sources of ignition.

Environmental precautions

**Environmental precautions** Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

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**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. Use personal protective equipment as required.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static

electricity).

Incompatible materials Strong oxidizing agents, Peroxides, Acids, Alkalis

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
SILVER	TWA: 0.1 mg/m <sup>3</sup> dust and fume	TWA: 0.01 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> dust
7440-22-4	_	(vacated) TWA: 0.01 mg/m <sup>3</sup>	TWA: 0.01 mg/m <sup>3</sup> dust
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>	
ETHANOL	STEL: 1000 ppm	TWA: 1000 ppm	IDLH: 3300 ppm
64-17-5		TWA: 1900 mg/m <sup>3</sup>	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1900 mg/m <sup>3</sup>
		(vacated) TWA: 1900 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.

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

Tag Closed Cup

Air = 1

# Information on basic physical and chemical properties

Physical state Liquid
Appearance Copper
Odor Alcohol

Odor threshold No information available

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

pH No information available
Melting point / freezing point
Boiling point / boiling range No information available
> 38 °C / >100 °F

Flash point

Evaporation rate

Flammability (solid, gas)

-10 °C / 14 °F

No information available

No information available

Flammability Limit in Air

Upper flammability limit: 11.0% Lower flammability limit: 2.2%

Vapor pressure No information available

Vapor density >1 Relative density 1.48

Water solubility Partially soluble

Solubility in other solvents No information available Partition coefficient No information available No information available **Autoignition temperature Decomposition temperature** 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 pointNo information availableMolecular weightNo information available

**VOC Content (%)** 49.8%

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.

#### Incompatible materials

Strong oxidizing agents, Peroxides, Acids, Alkalis

# **Hazardous Decomposition Products**

Carbon oxides

# 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
SILVER	> 2000 mg/kg (Rat)	-	-
7440-22-4			
ETHYL ACETATE	= 5620 mg/kg (Rat)	> 18000 mg/kg (Rabbit) > 20	-
141-78-6		mL/kg (Rabbit)	
ETHANOL	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
64-17-5			
1-METHOXY-2-PROPANOL	= 8532 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
ACETATE			
108-65-6			

# 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 mutagenicity**No 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
ETHANOL	A3	Group 1	Known	X
64-17-5		•		

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans Not classifiable as a human carcinogen NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Chronic toxicity May cause adverse effects on the bone marrow and blood-forming system. May cause

adverse liver effects. Contains a known or suspected reproductive toxin.

Target Organ Effects Bladder, Blood, Central nervous system, Eyes, kidney, Liver, Nasal Septum, Reproductive

System, Respiratory system, Skin.

# The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 3458 mg/kg ATEmix (dermal) 30407 mg/kg ATEmix (inhalation-dust/mist) 706.9 mg/l

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

8.46 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

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Chemical Name	Algae/aquatic plants	Fish	Crustacea
SILVER	-	0.0062: 96 h Oncorhynchus mykiss	0.00024: 48 h Daphnia magna mg/L
7440-22-4		mg/L LC50 flow-through 0.00155 -	EC50 Static
		0.00293: 96 h Pimephales promelas	

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		mg/L LC50 static 0.064: 96 h	
		Lepomis macrochirus mg/L LC50	
		static	
ETHYL ACETATE	3300: 48 h Desmodesmus	220 - 250: 96 h Pimephales	560: 48 h Daphnia magna mg/L
141-78-6	subspicatus mg/L EC50	promelas mg/L LC50 flow-through	EC50 Static
		352 - 500: 96 h Oncorhynchus	
		mykiss mg/L LC50 semi-static 484:	
		96 h Oncorhynchus mykiss mg/L	
		LC50 flow-through	
ETHANOL	-	12.0 - 16.0: 96 h Oncorhynchus	9268 - 14221: 48 h Daphnia magna
64-17-5		mykiss mL/L LC50 static 100: 96 h	mg/L LC50 10800: 24 h Daphnia
		Pimephales promelas mg/L LC50	magna mg/L EC50 2: 48 h Daphnia
		static 13400 - 15100: 96 h	magna mg/L EC50 Static
		Pimephales promelas mg/L LC50	
		flow-through	
1-METHOXY-2-PROPANOL	-	161: 96 h Pimephales promelas	500: 48 h Daphnia magna mg/L
ACETATE		mg/L LC50 static	EC50
108-65-6			

# Persistence and degradability

No information available.

# Bioaccumulation

No information available.

#### Mobility

No information available.

Chemical Name	Partition coefficient
ETHYL ACETATE	0.6
141-78-6	
ETHANOL	-0.32
64-17-5	
1-METHOXY-2-PROPANOL ACETATE	0.43
108-65-6	

# Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal of wastes This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

Contaminated packaging Do not reuse container.

US EPA Waste Number D001

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
SILVER	=	Included in waste stream:	5.0 mg/L regulatory level	=
7440-22-4		F039		
ETHYL ACETATE	-	Included in waste stream:	-	U112
141-78-6		F039		

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
SILVER	Toxic
7440-22-4	
ETHYL ACETATE	Toxic
141-78-6	Ignitable

# 390144C - PC 09227 REAR WINDOW DEFOGGER REPAIR KIT PART 2

ETHANOL	Toxic
64-17-5	Ignitable

# 14. TRANSPORT INFORMATION

DOT

**UN/ID no** UN 1993

Proper shipping name: Flammable liquids, n.o.s, (Ethyl acetate, Ethyl alcohol), Limited Quantity (LQ)

Hazard Class 3 Packing Group II

<u>IATA</u>

UN/ID no ID 8000

**Proper shipping name:** Consumer commodity, Limited Quantity (LQ)

Hazard Class 9

**IMDG** 

**UN/ID no** UN 1993

Proper shipping name: Flammable liquids, n.o.s, (Ethyl acetate, Ethyl alcohol), Limited Quantity (LQ)

Hazard Class 3
Packing Group II
EmS-No F-E, S-E

# 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Complies **DSL/NDSL** Complies **EINECS/ELINCS** Not Listed. **ENCS** Complies Complies **IECSC** Complies **KECL PICCS** Complies Complies **AICS** 

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 %
SILVER - 7440-22-4	1.0
SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	No
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
SILVER	-	X	X	-
7440-22-4				

# **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)
SILVER	1000 lb 1 lb	-	RQ 1000 lb final RQ
7440-22-4			RQ 454 kg final RQ RQ 1 lb final
			RQ
			RQ 0.454 kg final RQ
ETHYL ACETATE	5000 lb	-	RQ 5000 lb final RQ
141-78-6			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 - 64-17-5	Carcinogen	
	Developmental	
PIGMENT ORANGE #13 - 3520-72-7	Carcinogen	

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
SILVER	X	X	X
7440-22-4			
ETHYL ACETATE	X	X	X
141-78-6			
ETHANOL	X	X	X
64-17-5			

# U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# **WHMIS Hazard Class**

B2 - Flammable liquid, D2B - Toxic materials

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

NFPA Health hazards 2 Flammability 3 Instability 0

HMIS Health hazards 2 Flammability 3 Physical hazards 0 Personal protection B

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

Revision Date 29-Feb-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**