

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name	Glass Treatment
Synonym(s)	Glass Treatment 36231 Glass Treatment, Trigger Spray 36232
CAS #	Mixture
Product Use	Windshield glass treatment
Manufacturer	ITW Permatex Canada 35 Brownridge Road, Unit 1 Halton Hills, ON L7G 0C6 CA Phone: 1-905-693-8900 Emergency Telephone: 1-877-504-9352

2. Hazards Identification

Emergency overview	DANGER FLAMMABLE LIQUID AND VAPOUR. CAUSES EYE IRRITATION.
Potential short term health effects	
Routes of exposure	Eye, Skin contact, Skin absorption, Inhalation, Ingestion.
Eyes	Causes irritation.
Skin	May cause irritation.
Inhalation	May cause respiratory irritation.
Ingestion	May cause stomach distress, nausea or vomiting.
Target organs	Eyes. Skin.
Chronic effects	Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Signs and symptoms	Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Potential environmental effects	See section 12.

3. Composition/Information on Ingredients

Components	CAS #	Percent
Ethanol	64-17-5	60 - 100
Isopropanol	67-63-0	10 - 30

4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention if irritation develops or persists.
Skin contact	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Ingestion	Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
Notes to physician	Treat patient symptomatically.
General advice	Keep away from sources of ignition. No smoking. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties	Flammable by WHMIS criteria. vapours may travel to a source of ignition and flash back. Containers may explode when heated.
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Extinguishing media	
Suitable extinguishing media	Carbon dioxide. Alcohol foam. Dry chemical.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Not available
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
Explosion data	
Sensitivity to mechanical impact	Not available.
Sensitivity to static discharge	Not available.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas.
Methods for containment	Stop leak if you can do so without risk.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.

7. Handling and Storage

Handling	Use good industrial hygiene practices in handling this material. Avoid contact with eyes. Wash thoroughly after handling.
Storage	Keep away from heat, sparks, and flame. Do not store at temperatures above 120°F (49°C). Store in a closed container away from incompatible materials. Keep out of reach of children.

8. Exposure Controls/Personal Protection

Occupational exposure limits		
ACGIH Biological Exposure Indices		
Components	Type	Value
Isopropanol (CAS 67-63-0)	BEI	40 mg/l
US. ACGIH Threshold Limit Values		
Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Isopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
Exposure limits	Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH.	
Engineering controls	General ventilation normally adequate.	
Personal protective equipment		
Eye/Face protection	Wear safety glasses with side shields.	
Hand protection	If there is constant skin contact, rubber gloves are recommended.	
Skin and body protection	As required by employer code.	
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practices. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.	

9. Physical and Chemical Properties

Appearance	Clear
Colour	Colourless
Form	Liquid
Odour	Characteristic Alcohol
Odour threshold	Not available.
Physical state	Liquid.
pH	Not available.
Freezing point	Not available.
Boiling point	Not available.
Pour point	Not available.
Evaporation rate	Not available
Flash point	13.0 °C (55.4 °F) Estimated
Auto-ignition temperature	Not available.
Flammability Limits in Air, Upper, % by Volume	Not available.
Flammability Limits in Air, Lower, % by Volume	Not available.
Heat of combustion	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Specific gravity	.801-.805
Partition coefficient (n-octanol/water)	Not available.
Solubility (Water)	Not available.
Relative density	Not available.
Viscosity	Not available.
VOC	Not available
Percent volatile	Not available

10. Stability and Reactivity

Reactivity	This product may react with strong acids and strong oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Avoid high temperatures. Do not mix with other chemicals.
Incompatible materials	Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Toxicological data		
Components	Species	Test results
Ethanol (CAS 64-17-5)		
Acute		
Dermal		
LD50	Not available	
Inhalation		
LC50	Mouse	39 mg/l, 4 Hours
	Rat	31623 ppm, 4 Hours
		20000 ppm, 10 Hours

Components	Species	Test results
<i>Oral</i> LD50	Dog	5500 mg/kg
	Guinea pig	5600 mg/kg
	Mouse	3450 mg/kg
	Rat	7060 mg/kg
Isopropanol (CAS 67-63-0)		
Acute <i>Dermal</i> LD50	Rabbit	12800 mg/kg
<i>Inhalation</i> LC50	Rat	16970 mg/l/4h
<i>Oral</i> LD50	Dog	4797 mg/kg
	Mouse	3600 mg/kg
	Rabbit	5030 mg/kg
	Rat	4396 mg/kg
Effects of acute exposure		
Eye contact	Causes irritation.	
Skin contact	May cause irritation.	
Inhalation	May cause respiratory irritation.	
Ingestion	May cause stomach distress, nausea or vomiting.	
Sensitisation	Non-hazardous by WHMIS criteria.	
Chronic effects	Non-hazardous by WHMIS criteria.	
Carcinogenicity	See below.	
ACGIH Carcinogens		
Isopropanol (CAS 67-63-0)	A4 Not classifiable as a human carcinogen.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Ethanol (CAS 64-17-5)	Volume 44, Volume 96, Volume 100E Volume 96, Volume 100E	
Mutagenicity	Non-hazardous by WHMIS criteria.	
Reproductive effects	Non-hazardous by WHMIS criteria.	
Teratogenicity	Non-hazardous by WHMIS criteria.	
Name of Toxicologically Synergistic Products	Not available.	

12. Ecological Information

Ecotoxicity	See below		
Ecotoxicological data			
Components		Species	Test results
Ethanol (CAS 64-17-5)			
Crustacea	EC50	Daphnia	11744.5 mg/L, 48 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	7.7 - 11.2 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
Isopropanol (CAS 67-63-0)			
Algae	IC50	Algae	1000 mg/L, 72 Hours
Crustacea	EC50	Daphnia	13299 mg/L, 48 Hours

Components	Species	Test results
Aquatic Fish	LC50 Bluegill (<i>Lepomis macrochirus</i>)	> 1400 mg/l, 96 hours
Persistence and degradability	Not available.	
Bioaccumulation/accumulation	Not available	
Mobility in environmental media	Not available.	
Environmental effects	Not available.	
Aquatic toxicity	Not available.	
Partition coefficient		
Ethanol	-0.31	
Isopropanol	0.05	
Chemical fate information	Not available.	

13. Disposal Considerations

Disposal instructions	Review federal, provincial, and local government requirements prior to disposal.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S. (Ethanol, Isopropanol)
Hazard class	3
Packing group	II
Special provisions	16
Packaging exceptions	Limited quantity <1L

TDG



15. Regulatory Information

Canadian federal regulations	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.
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Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Ethanol (CAS 64-17-5)	1 TONNES
Isopropanol (CAS 67-63-0)	1 TONNES

Canada WHMIS Ingredient Disclosure: Threshold limits

Ethanol (CAS 64-17-5)	0.1 %
Isopropanol (CAS 67-63-0)	1 %

WHMIS status	Controlled
WHMIS Classification	Class B - Division 2 - Flammable Liquid, Class D - Division 2B

WHMIS labeling**Inventory status****Country(s) or region**

Canada

Canada

Inventory Name

Domestic Substances List (DSL)

Non-Domestic Substances List (NDSL)

On Inventory (Yes/No)*

Yes

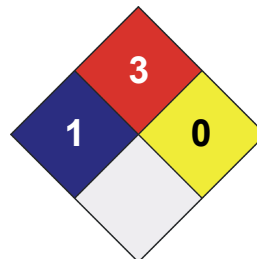
No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/	1
FLAMMABILITY		3
PHYSICAL HAZARD		0
PERSONAL PROTECTION		X

**Disclaimer**

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Other information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.