

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

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| Product name | Glass Treatment |
| Synonym(s) | Glass Treatment BCRX11212CN Glass Treatment, Trigger Spray BCRX11413CN6 |
| 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

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| 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

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| 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

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| 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

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| 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

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| 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

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| 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

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| 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

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|------------------------------------|---|
| 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

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|---------------------------|-----------|--------------------------------------|---------------------------|
| 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

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|---------------------------------------|--|
| 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:

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|----------------------|---|
| 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

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|------------------------------|---|
| 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. |
|------------------------------|---|

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

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

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| 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

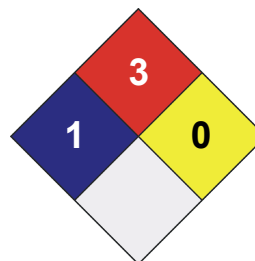
No

*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/manufacture listed on the first page of the document.

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