MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name **Gumout 2X Fuel Injector Cleaner**

Synonym(s) 800001739

CAS # Mixture

Product Use Fuel Injector Cleaner

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

WARNING
COMBUSTIBLE LIQUID AND VAPOUR.
CONTAINS MATERIAL WHICH MAY CAUSE CANCER.

MAY CAUSE SKIN IRRITATION.
MAY CAUSE EYE IRRITATION.
MAY CAUSE RESPIRATORY TRACT IRRITATION.

Potential short term health effects

Routes of exposure Eye, Skin contact, Skin absorption, Inhalation, Ingestion.

Eyes May cause irritation.

Skin May cause irritation.
May be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Isopropylbenzene (CAS 98-82-8) Can be absorbed through the skin.

Inhalation May cause respiratory irritation.

Ingestion Aspiration of material into lungs can cause chemical pneumonitis.
May cause stomach distress, nausea or vomiting.

Target organs Eyes. Skin. Respiratory system. Blood.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Contains material which may cause cancer.

Signs and symptoms Symptoms may include redness, oedema, drying, defatting and cracking of the skin.
Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
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
Solvent naphtha (petroleum), heavy aliphatic	64742-96-7	60 - 100
Solvent naphtha (petroleum), light aromatic	64742-95-6	3 - 7
1,2,4-Trimethyl benzene	95-63-6	1 - 5
Polyolefin alkyl phenol alkyl amine (HMIRA # 8109)	Proprietary	1 - 5
1,3,5-Trimethylbenzene	108-67-8	0.5 - 1.5
Isopropylbenzene	98-82-8	0.1 - 1

4. First Aid Measures

First aid procedures

Eye contact	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation 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	Symptoms may be delayed.
General advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Keep away from sources of ignition. No smoking. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties	Combustible by WHMIS criteria.
Extinguishing media	
Suitable extinguishing media	Dry chemical. Carbon dioxide. Foam. Sand. Water Fog.
Unsuitable extinguishing media	Do not use water jet.
Protection of firefighters	
Specific hazards arising from the chemical	Material will float and may ignite on surface of water.
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: Irritating and toxic gases or fumes may be released during a fire. Oxides of nitrogen. 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. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Remove sources of ignition. 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	Avoid contact with eyes, skin and clothing. Avoid breathing vapours or mists of this product. Use only with adequate ventilation. Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash thoroughly after handling. Keep container tightly closed.
Storage	Keep away from heat 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

US. ACGIH Threshold Limit Values

Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	25 ppm
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	25 ppm
Isopropylbenzene (CAS 98-82-8)	TWA	50 ppm

Exposure limits Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH.

Engineering controls Use only under good ventilation conditions or with respiratory protection.

Personal protective equipment

Eye/Face protection Wear safety glasses with side shields.

Hand protection Rubber gloves. Confirm with a reputable supplier first.

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 Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practices. When using do not eat or drink.

9. Physical and Chemical Properties

Appearance Clear

Colour Light yellow

Form Liquid

Odour Mild Kerosene

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 80.6 °C (177.0 °F) Setaflash Closed Tester

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 0.78 - 0.82

Partition coefficient (n-octanol/water) Not available.

Solubility (Water) Negligible

Relative density 0.83 g/cm3 (ASTM D-4052)

Viscosity Not available.

VOC Not available

Percent volatile Not available

10. Stability and Reactivity

Reactivity	This product may react with strong oxidising agents.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Heat, open flames, static discharge, sparks and other ignition sources. Avoid high temperatures. Do not mix with other chemicals.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	May include and are not limited to: Irritating and/or toxic fumes and gases may be emitted upon the products decomposition. Oxides of nitrogen. Oxides of carbon.

11. Toxicological Information

Toxicological data

Components	**Species**	**Test results**
1,2,4-Trimethyl benzene (CAS 95-63-6)		
Acute		
Dermal		
LD50	Rabbit	> 3160 mg/kg
	Rat	>= 3160 mg/kg
Inhalation		
LC50	Rat	> 2000 ppm, 48 Hours
		3661 ppm
Oral		
LD50	Rat	3280 mg/kg
1,3,5-Trimethylbenzene (CAS 108-67-8)		
Acute		
Inhalation		
LC50	Rat	24 mg/m3/4H
Oral		
LD50	Rat	23000 mg/kg
		8970 mg/kg
Isopropylbenzene (CAS 98-82-8)		
Acute		
Dermal		
LD50	Rabbit	3160 mg/kg
Inhalation		
LC50	Mouse	2000 ppm, 7 Hours
		24.7 mg/l, 2 Hours
	Rat	8000 mg/l/4h
		8000 ppm, 4 Hours
Oral		
LD50	Rat	1400 mg/kg
Solvent naphtha (petroleum), heavy aliphatic (CAS 64742-96-7)		
Acute		
Dermal		
LD50	Rabbit	> 3000 mg/kg
Inhalation		
LC50	Not available	
Oral		
LD50	Rat	2500 mg/kg

Components	Species	Test results
Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)		
Acute		
Dermal		
LD50	Rabbit	3000 mg/kg
Inhalation		
LC50	Rat	5.2 mg/l/4h
Oral		
LD50	Rat	4700 mg/kg

Effects of acute exposure

Eye contact May cause irritation.

Skin contact May cause irritation.
May be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Isopropylbenzene (CAS 98-82-8) Can be absorbed through the skin.

Inhalation May cause respiratory irritation.

Ingestion Aspiration of material into lungs can cause chemical pneumonitis.
May cause stomach distress, nausea or vomiting.

Sensitisation Non-hazardous by WHMIS criteria.

Chronic effects Non-hazardous by WHMIS criteria.

Carcinogenicity Hazardous by WHMIS criteria.
Contains a potential carcinogen. Isopropylbenzene - IARC group 2B (possibly carcinogenic)

IARC Monographs. Overall Evaluation of Carcinogenicity

Isopropylbenzene (CAS 98-82-8) Volume 101 - 2B Possibly carcinogenic to humans.

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
1,2,4-Trimethyl benzene (CAS 95-63-6)			
Crustacea	EC50	Daphnia	6.14 mg/L, 48 Hours
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	7.19 - 8.28 mg/l, 96 hours
1,3,5-Trimethylbenzene (CAS 108-67-8)			
Aquatic			
Fish	LC50	Goldfish (Carassius auratus)	9.89 - 15.05 mg/l, 96 hours
Isopropylbenzene (CAS 98-82-8)			
Algae	IC50	Algae	2.6 mg/L, 72 Hours
Crustacea	EC50	Daphnia	0.6 mg/L, 48 Hours
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.7 mg/l, 96 hours
Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)			
Crustacea	EC50	Daphnia	6.14 mg/L, 48 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	
Isopropylbenzene	3.66
Chemical fate information	Not available.

13. Disposal Considerations

Disposal instructions	Dispose in accordance with all applicable regulations. 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	UN1268
Proper shipping name	PETROLEUM DISTILLATES, N.O.S.;
Hazard class	3
Packing group	III
Special provisions	92

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.

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

1,2,4-Trimethyl benzene (CAS 95-63-6)	1 TONNES
1,3,5-Trimethylbenzene (CAS 108-67-8)	1 TONNES
Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)	1 TONNES

Canada WHMIS Ingredient Disclosure: Threshold limits

1,2,4-Trimethyl benzene (CAS 95-63-6)	0.1 %
1,3,5-Trimethylbenzene (CAS 108-67-8)	0.1 %
Isopropylbenzene (CAS 98-82-8)	1 %

WHMIS status	Controlled
WHMIS Classification	Class B - Division 3 - Combustible Liquid, Class D - Division 2A, 2B

WHMIS labeling

Inventory status

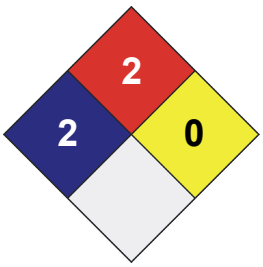
Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

*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	* 2
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X



Disclaimer

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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.