

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Gumout 2X Diesel/Biodiesel Fuel Injector Cleaner
Synonym(s) 800001738
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.
EYE AND SKIN IRRITANT.

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.

ACGIH - Threshold Limit Values - Skin Notations
Naphthalene 91-20-3 Skin - potential significant contribution to overall exposure by the cutaneous route

NIOSH - Pocket Guide - Skin Notations
Isopropylbenzene 98-82-8 Potential for dermal absorption

Inhalation May cause respiratory tract irritation.

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

Target organs Blood. Eyes. Respiratory system. 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

Ingredient(s)	CAS #	Percent
Naphthalene	91-20-3	0.1 - 1
Isopropylbenzene	98-82-8	0.1 - 1
Ethylbenzene	100-41-4	0.1 - 1
Propyl benzene	103-65-1	0.5 - 1.5
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	1 - 5
1,3,5-Trimethylbenzene	108-67-8	1 - 5
1,2,4-Trimethylbenzene	95-63-6	3 - 7
Solvent naphtha (petroleum), heavy aliphatic	64742-96-7	60 - 100
Solvent naphtha (petroleum), light aromatic	64742-95-6	7 - 13

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.

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 and skin. Keep out of reach of children.

5. Fire-fighting Measures

Flammable properties

Combustible by WHMIS criteria.

Extinguishing media

Suitable extinguishing media Small Fires: Dry chemical. Carbon dioxide. Sand.
Large Fires: Water spray, fog or regular foam.

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

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 in original containers for re-use.

7. Handling and Storage

Handling

Use good industrial hygiene practices in handling this material. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Use only with adequate ventilation. Wash thoroughly after handling.

Storage

Keep out of reach of children. Do not store at temperatures above 120°F (49°C). Store in a closed container away from incompatible materials. Keep away from heat and flame.

8. Exposure Controls / Personal Protection

Exposure limit values

Ingredient(s)	Exposure limit values
1,2,4-Trimethylbenzene	ACGIH-TLV TWA: 25 ppm
1,3,5-Trimethylbenzene	ACGIH-TLV TWA: 25 ppm
Ethylbenzene	ACGIH-TLV TWA: 20 ppm STEL: 125 ppm
Isopropylbenzene	ACGIH-TLV TWA: 50 ppm
Naphthalene	ACGIH-TLV TWA: 10 ppm STEL: 15 ppm
Propyl benzene	ACGIH-TLV Not established
Solvent naphtha (petroleum), heavy aliphatic	ACGIH-TLV TWA: 100 ppm
Solvent naphtha (petroleum), heavy aromatic	ACGIH-TLV Not established
Solvent naphtha (petroleum), light aromatic	ACGIH-TLV Not established

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

Handle in accordance with good industrial hygiene and safety practice. 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	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	77.23 °C (171.01 °F) Setaflash Closed Tester
Auto-ignition temperature	Not available

Flammability limits in air, lower, % by volume	Not available
Flammability Limits in Air, Upper, % by Volume	Not available
Vapour pressure	Not available
Vapour density	Not available
Specific gravity	0.82 - 0.86
Octanol/water coefficient	Not available

10. Stability and Reactivity

Reactivity	None known.
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. Do not mix with other chemicals.
Incompatible materials	None known.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
1,2,4-Trimethylbenzene	3661 ppm rat
1,3,5-Trimethylbenzene	24 mg/m ³ /4H rat
Ethylbenzene	Not available
Isopropylbenzene	8000 mg/l/4h rat
Naphthalene	Not available
Propyl benzene	Not available
Solvent naphtha (petroleum), heavy aliphatic	Not available
Solvent naphtha (petroleum), heavy aromatic	590 mg/l/4h rat
Solvent naphtha (petroleum), light aromatic	5.2 mg/l/4h rat

Component analysis - Oral LD50

Ingredient(s)	LD50
1,2,4-Trimethylbenzene	3280 mg/kg rat
1,3,5-Trimethylbenzene	23000 mg/kg rat
Ethylbenzene	3500 mg/kg rat
Isopropylbenzene	1400 mg/kg rat
Naphthalene	490 mg/kg rat; 533 mg/kg mouse; 1200 mg/day guinea pig
Propyl benzene	Not available
Solvent naphtha (petroleum), heavy aliphatic	2500 mg/kg rat
Solvent naphtha (petroleum), heavy aromatic	7050 mg/kg rat
Solvent naphtha (petroleum), light aromatic	4700 mg/kg rat

Effects of acute exposure

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

ACGIH - Threshold Limit Values - Skin Notations

Naphthalene 91-20-3 Skin - potential significant contribution to overall exposure by the cutaneous route

NIOSH - Pocket Guide - Skin Notations

Isopropylbenzene 98-82-8 Potential for dermal absorption

Inhalation May cause respiratory tract irritation.

Ingestion	May cause stomach distress, nausea or vomiting. Aspiration of material into lungs can cause chemical pneumonitis.
Sensitisation	Non-hazardous by WHMIS criteria.
Chronic effects	Non-hazardous by WHMIS criteria.
Carcinogenicity	Contains potential carcinogens. Isopropylbenzene - IARC group 2B (possibly carcinogenic)
ACGIH - Threshold Limit Values - Carcinogens	
Ethylbenzene	100-41-4 A3 - Confirmed animal carcinogen with unknown relevance to humans.
Naphthalene	91-20-3 A4 - Not Classifiable as a Human Carcinogen
IARC - Group 2B (Possibly Carcinogenic to Humans)	
Ethylbenzene	100-41-4 Monograph 77 [2000]
Naphthalene	91-20-3 Monograph 82 [2002]
Mutagenicity	Non-hazardous by WHMIS criteria.
Reproductive effects	Non-hazardous by WHMIS criteria.
Teratogenicity	Contains a potential teratogen.
Name of Toxicologically Synergistic Products	Not available

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Algae - Acute Toxicity Data

Ethylbenzene	100-41-4	72 Hr EC50 Pseudokirchneriella subcapitata: 4.6 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: >438 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 2.6 - 11.3 mg/L [static]; 96 Hr EC50 Pseudokirchneriella subcapitata: 1.7 - 7.6 mg/L [static]
Isopropylbenzene	98-82-8	72 Hr EC50 Pseudokirchneriella subcapitata: 2.6 mg/L
Naphthalene	91-20-3	72 Hr EC50 Skeletonema costatum: 0.4 mg/L
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	72 Hr EC50 Skeletonema costatum: 2.5 mg/L

Ecotoxicity - Freshwater Fish - Acute Toxicity Data

1,2,4-Trimethylbenzene	95-63-6	96 Hr LC50 Pimephales promelas: 7.19-8.28 mg/L [flow-through]
1,3,5-Trimethylbenzene	108-67-8	96 Hr LC50 Pimephales promelas: 3.48 mg/L
Ethylbenzene	100-41-4	96 Hr LC50 Oncorhynchus mykiss: 11.0-18.0 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.2 mg/L [semi-static]; 96 Hr LC50 Pimephales promelas: 7.55-11 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 32 mg/L [static]; 96 Hr LC50 Pimephales promelas: 9.1-15.6 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 9.6 mg/L [static]
Isopropylbenzene	98-82-8	96 Hr LC50 Pimephales promelas: 6.04-6.61 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 4.8 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 2.7 mg/L [semi-static]; 96 Hr LC50 Poecilia reticulata: 5.1 mg/L [semi-static]
Naphthalene	91-20-3	96 Hr LC50 Pimephales promelas: 5.74-6.44 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 1.6 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 0.91-2.82 mg/L [static]; 96 Hr LC50 Pimephales promelas: 1.99 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 31.0265 mg/L [static]
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	96 Hr LC50 Pimephales promelas: 19 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 2.34 mg/L; 96 Hr LC50 Lepomis macrochirus: 1740 mg/L [static]; 96 Hr LC50 Pimephales promelas: 45 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 41 mg/L
Solvent naphtha (petroleum), light aromatic	64742-95-6	96 Hr LC50 Oncorhynchus mykiss: 9.22 mg/L

Ecotoxicity - Water Flea - Acute Toxicity Data

1,2,4-Trimethylbenzene	95-63-6	48 Hr EC50 Daphnia magna: 6.14 mg/L
1,3,5-Trimethylbenzene	108-67-8	24 Hr EC50 Daphnia magna: 50 mg/L
Ethylbenzene	100-41-4	48 Hr EC50 Daphnia magna: 1.8 - 2.4 mg/L
Isopropylbenzene	98-82-8	48 Hr EC50 Daphnia magna: 0.6 mg/L; 48 Hr EC50 Daphnia magna: 7.9 - 14.1 mg/L [Static]
Naphthalene	91-20-3	48 Hr LC50 Daphnia magna: 2.16 mg/L; 48 Hr EC50 Daphnia magna: 1.96 mg/L [Flow through]; 48 Hr EC50 Daphnia magna: 1.09 - 3.4 mg/L [Static]
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	48 Hr EC50 Daphnia magna: 0.95 mg/L
Solvent naphtha (petroleum), light aromatic	64742-95-6	48 Hr EC50 Daphnia magna: 6.14 mg/L

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	Not available
Chemical fate information	Not available
Other adverse effects	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)
 Not regulated as dangerous goods.

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 - CEPA - High Priority Chemicals as Identified by DSL Categorization

Naphthalene 91-20-3 Batch 1, published February 3, 2007

Canada - CEPA - Schedule I - List of Toxic Substances

Naphthalene 91-20-3 Present

Canada - WHMIS - Ingredient Disclosure List

1,2,4-Trimethylbenzene	95-63-6	0.1 %
1,3,5-Trimethylbenzene	108-67-8	0.1 %
Ethylbenzene	100-41-4	0.1 %
Isopropylbenzene	98-82-8	1 %
Naphthalene	91-20-3	1 %

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



Inventory Status

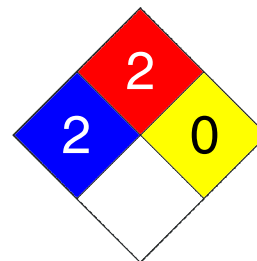
Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

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

16. Other Information

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 2
Flammability	2
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.