MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name **Gumout Small Engine Carb & Choke Cleaner**

Synonym(s) 36090

CAS # Mixture

Product Use Carburetor & Choke 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 DANGER
Extremely Flammable Aerosol.
Contents under pressure.
Containers may explode when heated.
Causes eye and skin irritation.
May cause chronic toxic effects.
Contains a potential reproductive toxin.
Contains a potential teratogen.

Potential short term health effects

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

Eyes Causes irritation.

Skin Causes irritation.

Inhalation Harmful if inhaled. Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness). Aspiration of material into lungs can cause chemical pneumonitis.

Ingestion Not a normal route of exposure. May cause stomach distress, nausea or vomiting.

Target organs Eyes. Kidney. Liver. 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

Components	CAS #	Percent
Acetone	67-64-1	60 - 100
Toluene	108-88-3	10 - 30
Carbon dioxide	124-38-9	5 - 10

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 immediately.

Skin contact Immediately flush with 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. If breathing has stopped, trained personnel should administer CPR immediately.

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 Do not puncture or incinerate container. 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 Flammable aerosol by flame projection test.
Containers may explode when heated.

Extinguishing media

Suitable extinguishing media Dry chemical. Foam. Carbon dioxide.

Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from the chemical Contents under pressure. Pressurised container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out.

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. Toxic fumes.

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 Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk.

Methods for cleaning up Before attempting clean up, refer to hazard data given above. Remove sources of ignition. Although the chance of a significant spill or leak is unlikely in aerosol containers, in the event of such an occurrence, absorb spilled material with a non-flammable absorbent such as sand or vermiculite.

7. Handling and Storage

Handling Use good industrial hygiene practices in handling this material.
Pressurised container: Do not pierce or burn, even after use.
Avoid contact with eyes and skin.
Use only with adequate ventilation.
Avoid breathing vapours or mists of this product.
Wash thoroughly after handling.

Storage Keep out of reach of children.
Keep away from heat, open flames or other sources of ignition.
Protect from sunlight.
Do not store at temperatures above 49°C (120.2°F).

8. Exposure Controls/Personal Protection

Occupational exposure limits

ACGIH Biological Exposure Indices

Components	Type	Value
Acetone (CAS 67-64-1)	BEI	50 mg/l
Toluene (CAS 108-88-3)	BEI	0.3 mg/g 0.03 mg/l

ACGIH Biological Exposure Indices

Components	Type	Value
		0.02 mg/l

US. ACGIH Threshold Limit Values

Components	Type	Value
Acetone (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
Toluene (CAS 108-88-3)	TWA	20 ppm

Exposure limits See above

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 practices. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance Aerosol

Colour Colourless

Form Liquid

Odour Characteristic

Odour threshold Not available.

Physical state Liquid.

pH Not available.

Freezing point Not available.

Boiling point 56 °C (132.8 °F)

Pour point Not available.

Evaporation rate 14.4

Flash point -20.0 °C (-4.0 °F) TCC

Auto-ignition temperature 465 °C (869 °F)

Flammability Limits in Air, Upper, % by Volume 12.8 % v/v

Flammability Limits in Air, Lower, % by Volume 2.6 % v/v

Heat of combustion Not available.

Vapour pressure Not available.

Vapour density Not available.

Specific gravity 0.795 - 0.805 g/ml

Partition coefficient (n-octanol/water) 2.65

Solubility (Water) Miscible

Relative density Not available.

Viscosity < 1 mm2/s @ 40°C

VOC 9.8 %

Percent volatile	Not available

10. Stability and Reactivity

Reactivity	This product may react with strong acids. 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. Aerosol containers are unstable at temperatures above 49°C (120.2°F).
Incompatible materials	Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Toxic fumes.

11. Toxicological Information

Toxicological data

Components	**Species**	**Test results**
Acetone (CAS 67-64-1)		
Acute		
Dermal		
LD50	Rabbit	15800 mg/kg
		20 ml/kg
Inhalation		
LC50	Mouse	44000 mg/m3/4H
	Rat	76 mg/l, 4 Hours
		50.1 mg/l, 8 Hours
		39 mg/l/4h
Oral		
LD50	Human	2857 mg/kg
	Mouse	3000 mg/kg
	Rabbit	5340 mg/kg
	Rat	5800 mg/kg
Carbon dioxide (CAS 124-38-9)		
Acute		
Inhalation		
LC50	Not available	
Oral		
LD50	Not available	
Toluene (CAS 108-88-3)		
Acute		
Dermal		
LD50	Rabbit	12196 mg/kg
		12125 mg/kg
		8390 mg/kg
		14.1 ml/kg
Inhalation		
LC50	Mouse	7100 mg/l, 4 Hours
		5320 ppm, 8 Hours
		400 ppm, 24 Hours
	Rat	26700 ppm, 1 Hours
		<= 28800 mg/m³, 4 Hours

Components	Species	Test results
		12200 ppm, 2 Hours
		8000 ppm, 4 Hours
		12.5 mg/l/4h
Oral		
LD50	Rat	> 5580 mg/kg
		636 mg/kg

Effects of acute exposure

Eye contact Causes irritation.

Skin contact Causes irritation.

Inhalation Harmful if inhaled. Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness). Aspiration of material into lungs can cause chemical pneumonitis.

Ingestion Not a normal route of exposure. May cause stomach distress, nausea or vomiting.

Sensitisation Non-hazardous by WHMIS criteria.

Chronic effects Hazardous by WHMIS criteria.

Carcinogenicity Non-hazardous by WHMIS criteria.
See below.

ACGIH Carcinogens

Acetone (CAS 67-64-1)	A4 Not classifiable as a human carcinogen.
Toluene (CAS 108-88-3)	A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Toluene (CAS 108-88-3)	Volume 47, Volume 71 - 3 Not classifiable as to carcinogenicity to humans.

Mutagenicity Non-hazardous by WHMIS criteria.

Reproductive effects Contains a potential reproductive toxin.
Hazardous by WHMIS criteria.

Teratogenicity Contains a potential teratogen.
Toluene (benzene, methyl-) has caused fetotoxicity (reduced fetal weight), behavioural effects (effects on learning and memory) and hearing loss (in males). These effects have been observed in the offspring of rats exposed by inhalation to 1200 or 1800 ppm toluene. These effects were observed in the absence of maternal toxicity.

Name of Toxicologically Synergistic Products Not available.

12. Ecological Information

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

Ecotoxicological data

Components		Species	Test results
Acetone (CAS 67-64-1)			
Crustacea	EC50	Daphnia	13999 mg/L, 48 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	21.6 - 23.9 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
Toluene (CAS 108-88-3)			
Algae	IC50	Algae	433 mg/L, 72 Hours
Crustacea	EC50	Daphnia	7.645 mg/L, 48 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours

Components		Species	Test results
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8.11 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

Acetone	-0.24
Toluene	2.73

Chemical fate information Not available.

13. Disposal Considerations

Disposal instructions Review federal, provincial, and local government requirements prior to disposal. Do not puncture or incinerate container.

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 UN1950
Proper shipping name Aerosols, flammable
Hazard class 2.1
Packaging exceptions Limited quantity <1L
ERG Code 10L

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 CEPA Schedule I: Listed substance

Carbon dioxide (CAS 124-38-9) Listed.

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

Toluene (CAS 108-88-3) 1 TONNES

Canada WHMIS Ingredient Disclosure: Threshold limits

Acetone (CAS 67-64-1) 1 %
Carbon dioxide (CAS 124-38-9) 1 %
Toluene (CAS 108-88-3) 1 %

WHMIS Classification Exempt - Consumer product

Inventory status

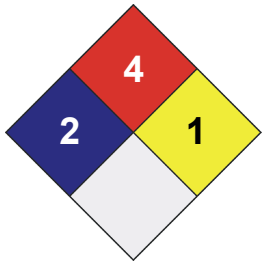
Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
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



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.

Issue date 06-February-2015

Effective date 01-February-2015

Expiry Date 01-February-2018

Prepared by Dell Tech Laboratories Ltd. Phone: (519) 858-5021

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.