

1. Identification

Product identifier: Battery Protector
Other means of identification: 639
Recommended use: Protecteur de borne de batterie
Restriction on use: For professional use
Supplier Name: PR Distribution inc.
6500 Rue Zéphirin-Paquet
Québec, Québec
Canada, G2C 0M3
Telephone: 418 872-6018
Emergency tel. number: CHEMTREC 1-800-424-9300 / 1 (703) 527-3887
Available hours: 24/7

2. Hazard identification

Signal word: DANGER

Product classification:



Aerosols - Category 1.

Germ cell mutagenicity - Category 1B. Carcinogenicity - Category 1A.

Skin irritation - Category 2. Serious eye irritation - Category 2A.

Hazard statement(s):
H222 - Extremely flammable aerosol.
H229 - Pressurized container: may burst if heated.
H340 - May cause genetic defects.
H350 - May cause cancer.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.

Precautionary statement(s)

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash hands thoroughly after handling and any other part of the body that may have been exposed to the product. Wear protective gloves, protective clothing, eye and face protection.

Response: IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice. IF exposed or concerned: Get medical advice.

Storage: Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 38 °C/100°F.

Disposal: Dispose of contents/container in accordance with local, regional, national and/or international regulations in force.

Other hazards: Moderately toxic by intravenous, intraperitoneal route and subcutaneous routes.

See toxicological information, section 11

3. Composition/ Information on ingredients

No	CAS No :	Common name and synonyms	Concentration % (w/w)
1	68476-86-8	Gases (petroleum), liquefied, sweetened. Petroleum gas	30.00 - 60.00 *
2	67-64-1	Acetone. Dimethyl ketone. 2-propanone	16.10
3	142-82-5	n-Heptane	10.00 - 30.00 *

* The actual concentration range is withheld as a trade secret.

4. First-aid measures

If swallowed, irritation, any type of overexposure or symptoms of overexposure occur during use of the product or persists after use, immediately contact a POISON CENTER, an EMERGENCY ROOM or a PHYSICIAN; ensure that the product safety data sheet is available.

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention as soon as possible.

Skin contact: Remove contaminated clothing immediately. Wash the skin with soap and water. Thoroughly wet contaminated clothing. If irritation persists, consult a doctor.

Inhalation: Move exposed person to fresh air. Keep this person warm and lying down. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately.

Ingestion: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting unless instructed by medical personnel.

Symptoms: Red eyes, itching, blurred vision and tearing. Redness, flaking and cracking of the skin.

Effects (acute or delayed): This product is a serious irritant that may cause reversible damages to the cornea. May cause skin irritation. Following repeated or prolonged contact, it has a degreasing effect on the skin. Repeated exposure of this product may lead to the development of cancerous tumors.

Immediate medical attention and special treatment: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Suitable extinguishing media: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media: Jets of water can facilitate the spread of fire.

Specific hazards arising from the hazardous product: Flammable. Propellant gases can form an explosive mixture with air. They are heavier than air and can travel toward a source of ignition.

Hazardous combustion products: Carbon monoxide and dioxide.

Special protective equipment and precautions for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions: No action shall be taken involving any personal risk or if you do not have suitable training or protection. Evacuate surrounding areas. Do not touch or walk through spilled material. Shut off all heating and ignition sources. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Protective equipment and emergency procedures: Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution. Use inert absorbent or retention tubes in the event of a large spill.

Methods and materials for containment and cleaning up: Stop leak if without risk. Move containers from spill area. Contain leaks and pick up with non-combustible absorbent materials such as sand, earth or vermiculite. Then, place in an appropriate waste disposal container according to local regulations. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

Precautions for safe handling: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure - obtain special instructions before use. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Incompatibility: Oxidizers. Oxidizing agents. Halogenated products. Amines.

8. Exposure Controls/ Personal protection

Control parameters:

Occupational exposure limit values:

Alberta

No	CAS No :	Common name and synonyms	8-hour occupational exposure limit (TWA)		15-minute occupational exposure limit (STEL)		Ceiling occupational exposure limit	
			ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1	68476-86-8	Gases (petroleum), liquefied, sweetened. Petroleum gas	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
2	67-64-1	Acetone. Dimethyl ketone. 2-propanone	500	1200	750	1800	Not listed	Not listed
3	142-82-5	n-Heptane	400	1640	500	2050	Not listed	Not listed

British-Columbia

No	CAS No :	Common name and synonyms	8-hour occupational exposure limit (TWA)		15-minute occupational exposure limit (STEL)		Ceiling occupational exposure limit	
			ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1	68476-86-8	Gases (petroleum), liquefied, sweetened. Petroleum gas	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
2	67-64-1	Acetone. Dimethyl ketone. 2-propanone	250	Not listed	500	Not listed	Not listed	Not listed
3	142-82-5	n-Heptane	400	Not listed	500	Not listed	Not listed	Not listed

Ontario

No	CAS No :	Common name and synonyms	8-hour occupational exposure limit (TWA)		15-minute occupational exposure limit (STEL)		Ceiling occupational exposure limit	
			ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1	68476-86-8	Gases (petroleum), liquefied, sweetened. Petroleum gas	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
2	67-64-1	Acetone. Dimethyl ketone. 2-propanone	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
3	142-82-5	n-Heptane	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Quebec

No	CAS No :	Common name and synonyms	8-hour occupational exposure limit (TWA)		15-minute occupational exposure limit (STEL)		Ceiling occupational exposure limit	
			ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1	68476-86-8	Gases (petroleum), liquefied, sweetened. Petroleum gas	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
2	67-64-1	Acetone. Dimethyl ketone. 2-propanone	250	595	500	1190	Not listed	Not listed
3	142-82-5	n-Heptane	400	1640	500	2050	Not listed	Not listed

Saskatchewan

No	CAS No :	Common name and synonyms	8-hour occupational exposure limit (TWA)		15-minute occupational exposure limit (STEL)		Ceiling occupational exposure limit	
			ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1	68476-86-8	Gases (petroleum), liquefied, sweetened. Petroleum gas	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
2	67-64-1	Acetone. Dimethyl ketone. 2-propanone	500	Not listed	750	Not listed	Not listed	Not listed
3	142-82-5	n-Heptane	400	Not listed	500	Not listed	Not listed	Not listed

United States

No	CAS No :	Common name and synonyms	IDLH NIOSH	Regulatory Limits			Recommended Limits	
				OSHA PEL		California / OSHA PEL	NIOSH REL	ACGIH ® 2019 TLV ®
				ppm	mg/m ³	8-hour TWA (ST) STEL (C) Ceiling	Up to 10-hour TWA (ST) STEL (C) Ceiling	8-hour TWA (ST) STEL (C) Ceiling
1	68476-86-8	Gases (petroleum), liquefied, sweetened. Petroleum gas	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
2	67-64-1	Acetone. Dimethyl ketone. 2-propanone	5938	1000	2400	500 ppm (ST) 750 ppm (C) 3000 ppm	250 ppm	250 ppm (ST) 500 ppm
3	142-82-5	n-Heptane	3074	500	2000	400 ppm (ST) 500 ppm	85 ppm (ST) 440 ppm [15-min]	400 ppm (ST) 500 ppm

IDLH: Immediately Dangerous to Life or Health Concentrations

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limits

California / OSHA: California Division of Occupational Safety and Health

REL: Recommended Exposure Limits

ACGIH ®: American Conference of Governmental Industrial Hygienists

TLV ®: Threshold Limit Values

Appropriate engineering controls: When a worker is exposed to a substance identified as having a demonstrated or suspected carcinogenic, mutagenic and/or reprotoxic effect on humans, exposure must be kept to a minimum, even when it remains within the expected standards regardless of the duration of exposure. Recirculation must be prohibited. Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eyes: DO NOT WEAR CONTACT LENSES. Wear anti-splash safety goggles.

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties.

Respiratory: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Others: Wear protective clothing with long sleeves and appropriate safety shoes at all times.

9. Physical and chemical properties

Physical state: Aerosol

Colour: Brown

Odour: Hydrocarbon

Melting/Freezing point: Not applicable, contents under pressure

Initial boiling point/boiling range: Not applicable, contents under pressure

Flammability: Yes

Lower flammable/explosive limit: Not applicable

Upper flammable/explosive limit: Not applicable

Flash point: Not applicable, contents under pressure

Auto-ignition temperature: Not applicable, contents under pressure

Decomposition temperature: Not applicable, contents under pressure

pH: Not applicable

Kinematic viscosity: Not applicable, contents under pressure

Solubility (in water): Insoluble

Partition coefficient – n-octanol/water (Log Kow): > 1

Vapour pressure: Not applicable, contents under pressure

Density and relative density: 0.699 kg/L at 20 °C (water = 1)

Relative vapour density: Not applicable, contents under pressure

Particle characteristics: Not applicable

10. Stability and reactivity

Reactivity: Stable under recommended conditions of storage and handling.

Chemical stability: The product is chemically stable under normal conditions of use. It has often happened that damaged bottles behave like flares and cause serious damage or injury.

Possibility of hazardous reactions: No dangerous or polymerization reactions will not occur under normal conditions of use.

Conditions to avoid: Avoid electrical discharge. Avoid shock, friction, fire and other sources of ignition. Keep away from sources of ignition, open flames and sparks. Do not pierce or burn, even after use. Keep away from incompatible products (see section 7).

Incompatible materials: None known at room temperature.

Hazardous decomposition products: Carbon monoxide and dioxide. Lithium oxides.

11. Toxicological information

	Oral	Dermal	Inhalation gases	Inhalation vapours	Inhalation dusts/mists
ATE _{product}	> 5 000 mg/kg	> 5 000 mg/kg	> 20 000 ppmV	> 20 mg/l	> 5 mg/l

No	CAS No :	Common name and synonyms	LD ₅₀ oral mg/kg	LD ₅₀ skin mg/kg	LC ₅₀ inhalation ppmV 4h - gases	LC ₅₀ inhalation mg/l 4h - vapours	LC ₅₀ inhalation mg/l 4h - dusts-mist
1	68476-86-8	Gases (petroleum), liquefied, sweetened. Petroleum gas	N/A	> 5000	> 20000	N/A	N/A
2	67-64-1	Acetone. Dimethyl ketone. 2-propanone	5800	> 15800	N/A	76	> 15.00
3	142-82-5	n-Heptane	> 15000	> 5000	N/A	73.5	> 15.00

Routes of exposure: This product is absorbed through the skin and the respiratory tract.

Symptoms: Red eyes, itching, blurred vision and tearing. Redness, flaking and cracking of the skin.

Delayed and immediate effects: This product is a serious irritant that may cause reversible damages to the cornea. May cause skin irritation. Following repeated or prolonged contact, it has a degreasing effect on the skin. Repeated exposure of this product may lead to the development of cancerous tumors.

Aspiration hazard	N/A
Skin corrosion - Skin irritation	Yes
Serious eye damage - Serious eye irritation - Eye irritation	Yes
Skin sensitization	N/A
Respiratory sensitization	N/A
Specific target organ toxicity – single exposure	N/A
Specific target organ toxicity – single exposure Category 3 Narcotic effects	N/A
Specific target organ toxicity – single exposure Category 3 Respiratory tract irritation	N/A
Specific target organ toxicity – repeated exposure	N/A

No	CAS No :	Common name and synonyms	IARC	ACGIH	Mutagenicity	Effect on reproduction
1	68476-86-8	Gases (petroleum), liquefied, sweetened. Petroleum gas	Not listed	A1	Mutagenic effects shown in animals.	No effects shown.
2	67-64-1	Acetone. Dimethyl ketone. 2-propanone	Not listed	A4	No effects shown.	The data do not allow for an adequate evaluation of the effects on reproduction. The data do not allow for an adequate evaluation of the effects on development.
3	142-82-5	n-Heptane	Not listed	Not listed	No effects shown.	No effects shown.

Cancer classification under IARC (International Agency for Research on Cancer)

Group 1: carcinogenic to humans.
 Group 2A: probably carcinogenic to humans.
 Group 2B: possibly carcinogenic to humans.
 Group 3: not classifiable as to its carcinogenicity to humans.
 Group 4: probably not carcinogenic to humans.

Cancer classification under ACGIH (American Conference of Governmental Industrial Hygienists)

Group A1: confirmed human carcinogen.
 Group A2: suspected human carcinogen.
 Group A3: confirmed animal carcinogen with unknown relevance to humans.
 Group A4: not classifiable as a human carcinogen.
 Group A5: not suspected as a human carcinogen.

12. Ecological information

Ecotoxicity

No	CAS No :	Common name and synonyms	%	Aquatic Ecotoxicity short term	Aquatic Ecotoxicity long term	Terrestrial Ecotoxicity
1	68476-86-8	Gases (petroleum), liquefied, sweetened. Petroleum gas	30.00 - 60.00	No known adverse effect to aquatic life.	No known adverse effect to aquatic life.	No known adverse effect to the environment.
2	67-64-1	Acetone. Dimethyl ketone. 2-propanone	16.10	No known adverse effect to aquatic life.	No known adverse effect to aquatic life.	No known adverse effect to the environment.
3	142-82-5	n-Heptane	10.00 - 30.00	Very toxic to aquatic life.	Very toxic to aquatic life with long lasting effects.	No known adverse effect to the environment.

Persistence and degradability. Bioaccumulative potential. Other adverse effects

No	CAS No :	Common name and synonyms	%	Persistent	Bio-accumulation	Aquatic ecotoxicity
1	68476-86-8	Gases (petroleum), liquefied, sweetened. Petroleum gas	30.00 - 60.00	Yes	No	No
2	67-64-1	Acetone. Dimethyl ketone. 2-propanone	16.10	Yes	No	No
3	142-82-5	n-Heptane	10.00 - 30.00	No	No	Yes

Degradability: N/A

Mobility in soil: N/A

13. Disposal considerations

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally.

14. Transport information

	TDG	DOT	IMDG	IATA
UN Number	1950	1950	1950	1950
Proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS
Transport hazard class(es)	2.1	2.1	2.1	2.1
Packing group				

Canada - ERAP

Not applicable

United States - Reportable Quantities (RQ)

No	CAS No :	Common name and synonyms	RQ lbs (kg)
1	67-64-1	Acetone. Dimethyl ketone. 2-propanone	5000 (2270)

Transport in bulk (according to Annex II of the International Convention for the Prevention of Pollution From Ships, 1973, as modified by the Protocol of 1978 (MARPOL 73/78), and the International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (IBC Code)): N/A

Marine pollutant: No

Exemption for limited quantity: 1 L

In accordance with the Canadian Transport of Dangerous Goods regulations by Road, we use the 1.17 exemption when applicable. In accordance with 49 CFR article 172.315 for transportation by a mode other than air, we use the Limited quantities exemption when applicable.

Other exemptions: No other exemption.

Special precautions: Not applicable

15. Regulatory information

Canada

No	CAS No :	Common name and synonyms	%	DSL	NDSL	NPRI
1	68476-86-8	Gases (petroleum), liquefied, sweetened. Petroleum gas	30.00 - 60.00	X		X
2	67-64-1	Acetone. Dimethyl ketone. 2-propanone	16.10	X		
3	142-82-5	n-Heptane	10.00 - 30.00	X		X

United States

No	CAS No :	Common name and synonyms	%	TSCA	PROP-65	RTK
1	68476-86-8	Gases (petroleum), liquefied, sweetened. Petroleum gas	30.00 - 60.00	X		
2	67-64-1	Acetone. Dimethyl ketone. 2-propanone	16.10	X		X
3	142-82-5	n-Heptane	10.00 - 30.00	X		X

The classification of the product and the SDS were developed in accordance with HPR and HazCom 2012.

16. Other information

Date: 2024-02-14

Version: 1

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