

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
 Trade name : Reflex Protect – Presidia™ CS Stream
 Product code : N/A

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Personal Protection Spray
 Use advised against : None identified

1.3. Details of the supplier of the safety data sheet

Reflex Protect Self Defense
 1121 E. Broadway, Ste 135
 Missoula, MT 59802

Tel: 1-406-532-3228

1.4. Emergency telephone number

Emergency number : 1-406-880-5587

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Compressed gas H280
 Skin Sens. 1 H317
 Eye Irrit. 2A H319
 Resp. Sens. 1 H334
 Full text of H statements : see section 16

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Warning
 Hazard statements (GHS-US) : H280 - Contains gas under pressure; may explode if heated
 H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P261 - Avoid breathing mist, spray
 P264 - Wash hands thoroughly after handling
 P272 - Contaminated work clothing must not be allowed out of the workplace
 P280 - Wear eye protection, protective gloves, protective clothing
 P285 - In case of inadequate ventilation wear respiratory protection.
 P302+P352 - If on skin: Wash with plenty of water
 P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P333+P316 - If skin irritation or rash occurs: Get medical advice/attention
 P337+P316 - If eye irritation persists: get medical advice/attention

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P363 - Wash contaminated clothing before reuse

P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

2.3. Other hazards

Inhalation of large amounts may cause dizziness, unconsciousness, and asphyxia.

2.4. Unknown acute toxicity (GHS US)

Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Diethylene glycol monobutyl ether	(CAS No) 112-34-5	95 - 99	Flam. Liq. 4, H227 Eye Irrit. 2A, H319
Propanedinitrile, 2-[(2-chlorophenyl)methylene]-	(CAS No) 2698-41-1	1 - 5	Skin Sens. 1, H317 Resp. Sens. 1, H334 Acute Tox. 3, H301
Nitrogen	(CAS No) 7727-37-9		Compressed gas, H280

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow breathing of fresh air. Allow the victim to rest. Give artificial respiration if necessary. If symptoms persist, call a physician. Do not use epinephrine.
First-aid measures after skin contact	: Remove contaminated clothing. Flush with water for at least 15 minutes. Wash with plenty of soap and water. Wash contaminated clothing before reuse. Do not cover affected areas with creams or ointments for at least 6 hours.
First-aid measures after eye contact	: 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/attention.
First-aid measures after ingestion	: Drink large quantities of water. Do not induce vomiting. Take immediately to a hospital or physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact	: May cause skin irritation to sensitive parts upon direct contact
Symptoms/injuries after eye contact	: May cause superficial keratitis and conjunctivitis.
Symptoms/injuries after inhalation	: May cause irritation to lungs
Symptoms/injuries after ingestion	: May cause irritation to stomach

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Dry powder. Carbon dioxide. Water spray.
Unsuitable extinguishing media	: None known

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Avoid exposure to extreme heat. Pungent fumes may be emitted on exposure to temperatures exceeding 175° F (80° C)
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Contents will discharge under fire conditions. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protective equipment for firefighters	: Do not enter fire area without proper protective equipment, including respiratory protection.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Gloves. Eye protection.

Emergency procedures : In case of spill, extinguish all flames. Absorb on appropriate sorbant material. Dispose of in proper waste receptacle.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Ventilate area. Absorb on appropriate sorbant material. Dispose of in proper waste receptacle properly labeled.

6.4. Reference to other sections

See Heading 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Handle with care. Keep out of the reach of children. Avoid breathing mist/ spray.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash hands, forearms and face thoroughly after handling. Smoking in work areas is prohibited.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store below 120°F (49 °C) in shipping container provided. Keep only in the original container in a cool, well-ventilated place.

Incompatible products : Strong bases. Strongacids.

Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Diethylene glycol monobutyl ether (112-34-5)		
ACGIH	ACGIH TWA (ppm)	10 ppm (inhalable fraction and vapor)

8.2. Exposure controls

Personal protective equipment : Protective goggles. Gloves. Insufficient ventilation: wear respiratory protection.



Hand protection : Wear protective gloves.

Eye protection : Wear chemical resistant goggles or face shield.

Skin and body protection : Wear suitable protective clothing. Use solvent resistant materials with full jacket

Respiratory protection : Use chemical respirator, NIOSH Approved only.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Yellowish/Amber

Odor : Aromatic, pungent. Highly irritating

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Odor threshold	: No dataavailable
pH	: No dataavailable
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: > 0 °F (-18 °C)
Boiling point	: 400 °F (204 °C) (Initial Bp)
Flash point	: > 200 °F (93 °C) (Closed Cup)
Auto-ignition temperature	: No dataavailable
Decomposition temperature	: No dataavailable
Flammability (solid, gas)	: Not applicable
Vapor pressure	: 80 Psia
Relative vapor density at 20 °C	: No data available
Relative density	: 1.07 (water=1)
Solubility	: Not soluble
Log Pow	: No dataavailable
Log Kow	: No dataavailable
Viscosity, kinematic	: No dataavailable
Viscosity, dynamic	: No data available
Explosive properties	: Not applicable
Oxidising properties	: Not applicable
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Will decompose above 250 °F (121 °C).

10.3. Possibility of hazardous reactions

Hazardous polymerization may occur if exposure to fire conditions.

10.4. Conditions to avoid

Avoid exposure to extreme heat. Pungent fumes may be emitted on exposure to temperatures exceeding 175° F (80° C).

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Decomposition products include hydrofluoric acid and fluorophosgene. Irritating fumes will also be present.

Hazardous thermal decomposition products may form such as carbon monoxide, carbon dioxide, and other toxic and corrosive gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Diethylene glycol monobutyl ether (112-34-5)	
LD50 oral rat	LD50 oral rat
LD50 dermal rabbit	LD50 dermal rabbit
ATE US (oral)	ATE US (oral)
ATE US (dermal)	ATE US (dermal)
ATE US (dust, mist)	124.700 mg/l/4h

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

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Respiratory or skin sensitisation	: May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after skin contact	: Skin contact may cause frostbite due to the propellant (Short Term Effects).
Symptoms/injuries after inhalation	: High inhaled amounts may cause dizziness, unconsciousness, and asphyxia (Short Term Effects). May cause a general allergic reaction to sensitive individuals.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Diethylene glycol monobutyl ether (112-34-5)	
LC50 fish 1	LC50 fish 1
EC50 Daphnia 1	EC50 Daphnia 1

12.2. Persistence and degradability

Not established.

12.3. Bioaccumulative potential

Not established.

Diethylene glycol monobutyl ether (112-34-5)	
BCF fish 1	(no bioconcentration expected)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No additional information available

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with all federal, state, and local Environmental laws and regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

Transport document description : UN1950 Aerosols (non-flammable, (each not exceeding 1 L capacity)), 2.2

UN-No.(DOT) : UN1950

Proper Shipping Name (DOT) : Aerosols
non-flammable, (each not exceeding 1 L capacity)

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Class (DOT) : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115
Hazard labels (DOT) : 2.2 - Non-flammable gas



DOT Packaging Exceptions (49 CFR 173.xxx) : 306
DOT Packaging Non Bulk (49 CFR 173.xxx) : None
DOT Packaging Bulk (49 CFR 173.xxx) : None
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg
DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel
DOT Vessel Stowage Other : 25 - Shade from radiant heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials

Additional information

Emergency Response Guide (ERG) Number : 126
Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

UN-No. (IATA) : 8000
Proper Shipping Name (IATA) : Consumer commodity
Class (IATA) : 9 - Miscellaneous Dangerous Goods

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Diethylene glycol monobutyl ether (112-34-5)	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule

15.2. International regulations

CANADA

Diethylene glycol monobutyl ether (112-34-5)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class B Division 3 - Combustible Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects

EU-Regulations

Diethylene glycol monobutyl ether (112-34-5)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	

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Propanedinitrile, 2-[(2-chlorophenyl)methylene]- (2698-41-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Nitrogen (7727-37-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

No information available

15.2.2. National regulations

Diethylene glycol monobutyl ether (112-34-5)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Canadian IDL (Ingredient Disclosure List)
Listed on INSQ (Mexican national Inventory of Chemical Substances)
Listed on CICR (Turkish Inventory and Control of Chemicals)

Propanedinitrile, 2-[(2-chlorophenyl)methylene]- (2698-41-1)

Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on INSQ (Mexican national Inventory of Chemical Substances)

15.3 US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Indication of changes : 2.1. Classification of the substance or mixture. 2.2. Label elements.
Revision date : 06/14/2016
Other information : None.

Full text of H-statements:

H227	Combustible liquid
H280	Contains gas under pressure; may explode if heated
H301	Toxic if swallowed
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product