

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Trade name : The Guardian – Inert Water Stream Delivery
Product code :

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

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

1.3. Details of the supplier of the safety data sheet

Reflex Protect, LLC
1121 E. Broadway, Ste 105
Missoula, MT 59802

Tel: 844.207.6389

1.4. Emergency telephone number

Emergency number Tel: 844.207.6389 (8am-5pm MST, M-F)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GHS-US classification**

Compressed gas H280
Full text of H statements : see section 16

2.2. Label elements**GHS-US labeling**

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Warning
Hazard statements (GHS-US) : H280 - Contains gas under pressure; may explode if heated
Precautionary statements (GHS-US) : P410+P403 - Protect from sunlight. Store in a well-ventilated place

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients**3.1. Substance**

Not applicable

3.2. Mixture

The Guardian – Inert Stream Delivery

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

| Name | Product identifier | GHS-US classification |
|----------|--------------------|-----------------------|
| DI Water | (CAS No) 7732-18-5 | |
| Nitrogen | (CAS No) 7727-37-9 | Compressed gas, H280 |

Full text of H-phrases: 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 victim to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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.
- 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. Exposure controls and personal protection.

The Guardian – Inert Stream Delivery

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

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.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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 out of direct sunlight.
- Incompatible products : None known
- Incompatible materials : Sources of ignition.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

- Personal protective equipment : Avoid all unnecessary exposure.
- Hand protection : In case of prolonged or repeated exposure wear protective gloves.
- Eye protection : Chemical goggles or safety glasses.
- Respiratory protection : In case of insufficient ventilation wear appropriate respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Color : Clear, colorless
- Odor : Odorless
- Odor threshold : No data available
- pH : 4.5 – 6.0
- Relative evaporation rate (butyl acetate=1) : No data available
- Melting point : Not applicable
- Freezing point : No data available
- Boiling point : 179 - 368 °F
- Flash point : > 212 °F (100 °C) (Closed cup)
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : No data available
- Vapor pressure : No data available
- Relative vapor density at 20 °C : No data available
- Relative density : 0.95 (water=1)
- Solubility : Completely soluble in water
- Log Pow : No data available
- Log Kow : No data available
- Viscosity, kinematic : No data available
- Viscosity, dynamic : No data available
- Explosive properties : No data available
- Oxidizing properties : No data available

The Guardian – Inert Stream Delivery

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Explosion limits : No data available

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

Direct sunlight. Extreme temperatures greater than 175 °F.

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

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

| 1,2-Propylene glycol (57-55-6) | |
|--------------------------------|-----------------------------|
| LD50 oral rat | 20 g/kg |
| LD50 dermal rabbit | 20800 mg/kg |
| ATE US (oral) | 20000.000 mg/kg body weight |
| ATE US (dermal) | 20800.000 mg/kg body weight |

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

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.

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.

| 1,2-Propylene glycol (57-55-6) | |
|--------------------------------|--|
| LC50 fish 1 | 51600 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |
| EC50 Daphnia 1 | > 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| LC50 fish 2 | 41 - 47 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |

The Guardian – Inert Stream Delivery

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

12.2. Persistence and degradability

Not established.

12.3. Bioaccumulative potential

Not established.

1,2-Propylene glycol (57-55-6)

BCF fish 1

< 1

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)

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.

The Guardian – Inert Stream Delivery

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

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.

| | |
|---------------------------------------|---|
| 1,2-Propylene glycol (57-55-6) | |
| EPA TSCA Regulatory Flag | 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

| | |
|---|---|
| 1,2-Propylene glycol (57-55-6) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |
| Nitrogen (7727-37-9) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Class A - Compressed Gas |

EU-Regulations

| | |
|--|--|
| 1,2-Propylene glycol (57-55-6) | |
| 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 additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

15.2.2. National regulations

| |
|---|
| 1,2-Propylene glycol (57-55-6) |
| 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) |

The Guardian – Inert Stream Delivery

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Nitrogen (7727-37-9)

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 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 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

Other information : None.

Full text of H-phrases:

----- H280 Contains gas under pressure; may explode if heated

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