

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision Date: 4/27/2016 Supersedes: 12/4/2014

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

<u>Product Identifier</u> <u>Product Form:</u> Mixture

Product Name: Gunslick Gun Flush Aerosol

Intended Use of the Product

Name, Address, and Telephone of the Responsible Party

Company

Federal Cartridge Company

900 Ehlen Drive Anoka, MN 55303 T 1-800-635-7656

Emergency Telephone Number

Emergency number : 1-800-424-9300 (Inside US), 01-703-527-3887 (Outside US) - (CHEMTREC, Day or Night)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Simple Asphy

Skin Irrit. 2 H315 Eye Irrit. 2A H319 Skin Sens. 1 H317 Muta. 2 H341 H350 Carc. 1B Repr. 1B H360 STOT SE 3 H336 STOT RE 1 H372 H304 Asp. Tox. 1 Aquatic Acute 3 H402 Aquatic Chronic 3 H412

Label Elements GHS-US Labeling

Hazard Pictograms (GHS-US)





Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H341 - Suspected of causing genetic defects

H350 - May cause cancer

H360 - May damage fertility or the unborn child

H372 - Causes damage to organs through prolonged or repeated exposure

May displace oxygen and cause rapid suffocation

H402 - Harmful to aquatic life

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements (GHS-US) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe gas, vapors, mist, spray.

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P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection, face protection, respiratory protection.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P304+P340 - IF INHALED: 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.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P312 - Call a POISON CENTER/doctor/physician if you feel unwell.

P314 - Get medical advice and attention if you feel unwell.

P321 - Specific treatment (see section 4).

P331 - If swallowed, do NOT induce vomiting.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362 - Take off contaminated clothing and wash before reuse.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container to local, regional, national, and international regulations.

Other Hazards

Other Hazards Not Contributing to the Classification: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. When heated to decomposition, emits toxic fumes.

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Mixture

Name	Product identifier	% (w/w)	Classification (GHS-US)
Trichloroethylene	(CAS No) 79-01-6	90 - 100	Flam. Liq. 4, H227
			Skin Irrit. 2, H315
			Eye Irrit. 2A, H319
			Skin Sens. 1B, H317
			Muta. 2, H341
			Carc. 1B, H350
			Repr. 1B, H360
			STOT SE 3, H336
			STOT RE 1, H372
			Asp. Tox. 1, H304
			Aquatic Acute 3, H402
			Aquatic Chronic 3, H412
Carbon dioxide	(CAS No) 124-38-9	1 -5, 5 - 10	Simple Asphy, H380
			Compressed gas, H280
Distillates, petroleum, hydrotreated light	(CAS No) 64742-53-6	0.1 - 1	Skin Irrit. 2, H315
naphthenic			Eye Irrit. 2A, H319
			Asp. Tox. 1, H304

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Sulfonic acids, petroleum, sodium salts	(CAS No) 68608-26-4	<0.1, 0.1-1	Eye Irrit. 2A, H319
Paraffin waxes and Hydrocarbon waxes	(CAS No) 8002-74-2	<0.1, 0.1-1	Not classified
Calcium petroleum sulfonate	(CAS No) 61789-86-4	<0.1, 0.1-1	Eye Irrit. 2A, H319
			Skin Sens. 1B, H317
			Aquatic Acute 2, H401

More than one of the ranges of concentration prescribed by Controlled Products Regulations has been used where necessary due to varying composition.

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. Get immediate medical advice/attention.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention immediately.

Most Important Symptoms and Effects Both Acute and Delayed

General: May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Causes eye irritation. May cause cancer. Causes skin irritation. May be fatal if swallowed and enters airways. May cause an allergic skin reaction. May cause drowsiness and dizziness. May cause heritable genetic damage. Asphyxiant gas.

Inhalation: Respiratory tract irritation. May cause drowsiness or dizziness. Asphyxia by lack of oxygen: risk of death.

Skin Contact: May cause skin irritation. May cause an allergic skin reaction.

Eye Contact: May cause eye irritation.

Ingestion: Ingestion is likely to be harmful or have adverse effects. May be fatal if swallowed and enters airways.

Chronic Symptoms: May cause heritable genetic damage. May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure. May cause cancer.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide, foam, dry chemical.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Toxic fumes are released. Hydrogen chloride. Carbon oxides (CO, CO₂).

Other information: Do not allow run-off from fire fighting to enter drains or water courses. Do not allow the product to be released into the environment.

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Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Do NOT breathe (vapor, mist, spray, gas). Do not get in eyes, on skin, or on clothing.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Use only non-sparking tools. Contact competent authorities after a spill. Isolate area until gas has dispersed.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: Pressurized container: Do not pierce or burn, even after use. When heated to decomposition, emits toxic fumes.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do no eat, drink or smoke when using this product. Wash hands, forearms, and other exposed areas thoroughly after handling.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Prevent build-up of electrostatic charges (e.g., by grounding). Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from extremely high or low temperatures, direct sunlight, ignition sources, incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

Storage Temperature: < 48 °C (120°F)

Special Rules on Packaging: Keep only in the original container.

Specific End Use(s) Not available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Trichloroethylene (79-01-6)		
Mexico	OEL TWA (mg/m³)	535 mg/m ³	
Mexico	OEL TWA (ppm)	100 ppm	
Mexico	OEL STEL (mg/m³)	1080 mg/m³	
Mexico	OEL STEL (ppm)	200 ppm	
USA ACGIH	ACGIH TWA (ppm)	10 ppm	
USA ACGIH	ACGIH STEL (ppm)	25 ppm	
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm	
USA OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm	
USA IDLH	US IDLH (ppm)	1000 ppm	

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Alberta	OEL STEL (mg/m³)	537 mg/m³
Alberta	OEL STEL (ppm)	100 ppm
Alberta	OEL TWA (mg/m³)	269 mg/m³
Alberta	OEL TWA (ppm)	50 ppm
British Columbia	OEL STEL (ppm)	25 ppm
British Columbia	OEL TWA (ppm)	10 ppm
Manitoba	OEL STEL (ppm)	25 ppm
Manitoba	OEL TWA (ppm)	10 ppm
New Brunswick	OEL STEL (mg/m³)	537 mg/m³
New Brunswick	OEL STEL (ppm)	100 ppm
New Brunswick	OEL TWA (mg/m³)	269 mg/m³
New Brunswick	OEL TWA (ppm)	50 ppm
Newfoundland & Labrador	OEL STEL (ppm)	25 ppm
Newfoundland & Labrador	OEL TWA (ppm)	10 ppm
Nova Scotia	OEL STEL (ppm)	25 ppm
Nova Scotia	OEL TWA (ppm)	10 ppm
Nunavut	OEL STEL (mg/m³)	806 mg/m³
Nunavut	OEL STEL (ppm)	150 ppm
Nunavut	OEL TWA (mg/m³)	537 mg/m³
Nunavut	OEL TWA (ppm)	100 ppm
Northwest Territories	OEL STEL (mg/m³)	806 mg/m³
Northwest Territories	OEL STEL (ppm)	150 ppm
Northwest Territories	OEL TWA (mg/m³)	537 mg/m³
Northwest Territories	OEL TWA (ppm)	100 ppm
Ontario	OEL STEL (ppm)	25 ppm
Ontario	OEL TWA (ppm)	10 ppm
Prince Edward Island	OEL STEL (ppm)	25 ppm
Prince Edward Island	OEL TWA (ppm)	10 ppm
Québec	VECD (mg/m³)	1070 mg/m³
Québec	VECD (ppm)	200 ppm
Québec	VEMP (mg/m³)	269 mg/m³
Québec	VEMP (ppm)	50 ppm
Saskatchewan	OEL STEL (ppm)	100 ppm
Saskatchewan	OEL TWA (ppm)	50 ppm
Yukon	OEL STEL (mg/m³)	800 mg/m³
Yukon	OEL STEL (ppm)	150 ppm
Yukon	OEL TWA (mg/m³)	535 mg/m³
Yukon	OEL TWA (ppm)	100 ppm
Carbon dioxide (124-38-9)		
Mexico	OEL TWA (mg/m³)	9000 mg/m³
Mexico	OEL TWA (ppm)	5000 ppm
Mexico	OEL STEL (mg/m³)	27000 mg/m³
Mexico	OEL STEL (ppm)	15000 ppm
USA ACGIH	ACGIH TWA (ppm)	5000 ppm
USA ACGIH	ACGIH STEL (ppm)	30000 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	9000 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	5000 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m³)	9000 mg/m³
USA NIOSH	NIOSH REL (TWA) (ppm)	5000 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m³)	54000 mg/m³

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USA NIOSH NIOSH REL (STEL) (ppm) 30000 ppm USA IDLH US IDLH (ppm) 40000 ppm Alberta OEL STEL (mg/m³) 54000 mg/m³ Alberta OEL STEL (ppm) 30000 ppm Alberta OEL TWA (mg/m³) 9000 mg/m³ Alberta OEL TWA (ppm) 5000 ppm British Columbia OEL STEL (ppm) 15000 ppm British Columbia OEL TWA (ppm) 5000 ppm Manitoba OEL STEL (ppm) 30000 ppm Manitoba OEL TWA (ppm) 5000 ppm New Brunswick OEL STEL (mg/m³) 54000 mg/m³ New Brunswick OEL STEL (ppm) 30000 ppm	
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New Brunswick OEL TWA (mg/m³) 9000 mg/m³	
New Brunswick OEL TWA (ppm) 5000 ppm	
Newfoundland & Labrador OEL STEL (ppm) 30000 ppm	
Newfoundland & Labrador OEL TWA (ppm) 5000 ppm	
Nova Scotia OEL STEL (ppm) 30000 ppm	
Nova Scotia OEL TWA (ppm) 5000 ppm	
Nunavut OEL STEL (mg/m³) 27000 mg/m³	
Nunavut OEL STEL (ppm) 15000 ppm	
Nunavut OEL TWA (mg/m³) 9000 mg/m³	
Nunavut OEL TWA (ppm) 5000 ppm	
Northwest Territories OEL STEL (mg/m³) 27000 mg/m³	
Northwest Territories OEL STEL (ppm) 15000 ppm	
Northwest Territories OEL TWA (mg/m³) 9000 mg/m³	
Northwest Territories OEL TWA (ppm) 5000 ppm	
Ontario OEL STEL (ppm) 30000 ppm	
Ontario OEL TWA (ppm) 5000 ppm	
Prince Edward Island OEL STEL (ppm) 30000 ppm	
Prince Edward Island OEL TWA (ppm) 5000 ppm	
Québec VECD (mg/m³) 54000 mg/m³	
Québec VECD (ppm) 30000 ppm	
Québec VEMP (mg/m³) 9000 mg/m³	
Québec VEMP (ppm) 5000 ppm	
Saskatchewan OEL STEL (ppm) 30000 ppm	
Saskatchewan OEL TWA (ppm) 5000 ppm	
Yukon OEL STEL (mg/m³) 27000 mg/m³	
Yukon OEL STEL (ppm) 15000 ppm	
Yukon OEL TWA (mg/m³) 9000 mg/m³	
Yukon OEL TWA (ppm) 5000 ppm	
Paraffin waxes and Hydrocarbon waxes (8002-74-2)	
Mexico OEL TWA (mg/m³) 2 mg/m³	
Mexico OEL STEL (mg/m³) 6 mg/m³	
USA ACGIH ACGIH TWA (mg/m³) 2 mg/m³	
USA NIOSH NIOSH REL (TWA) (mg/m³) 2 mg/m³	
Alberta OEL TWA (mg/m³) 2 mg/m³	
British Columbia OEL TWA (mg/m³) 2 mg/m³	
Manitoba OEL TWA (mg/m³) 2 mg/m³	
New Brunswick OEL TWA (mg/m³) 2 mg/m³	
Newfoundland & Labrador OEL TWA (mg/m³) 2 mg/m³	

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Nova Scotia	OEL TWA (mg/m³)	2 mg/m³
Nunavut	OEL STEL (mg/m³)	6 mg/m³
Nunavut	OEL TWA (mg/m³)	2 mg/m³
Northwest Territories	OEL STEL (mg/m³)	6 mg/m³
Northwest Territories	OEL TWA (mg/m³)	2 mg/m³
Ontario	OEL TWA (mg/m³)	2 mg/m³
Prince Edward Island	OEL TWA (mg/m³)	2 mg/m³
Québec	VEMP (mg/m³)	2 mg/m³
Saskatchewan	OEL STEL (mg/m³)	4 mg/m³
Saskatchewan	OEL TWA (mg/m³)	2 mg/m³
Yukon	OEL STEL (mg/m³)	6 mg/m³
Yukon	OEL TWA (mg/m³)	2 mg/m³

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined areas. Proper grounding procedures to avoid static electricity should be followed.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.









Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or face shield.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist

are expected to exceed exposure limits.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State : Aerosol/Liquid

Appearance : Aerosol, when allowed to accumulate is liquid. Clear

Odor: Ether-likeOdor Threshold: Not availablepH: Not available

Relative Evaporation Rate (butylacetate=1) : 0.3

Melting Point Not available **Freezing Point** Not available **Boiling Point** Not available **Flash Point** Not available **Auto-ignition Temperature** Not available **Decomposition Temperature** Not available Not available Flammability (solid, gas) **Lower Explosive Limit** ~8% **Upper Explosive Limit** ~ 44.8 % **Vapor Pressure** Not available

Vapor Density : >1.0

Relative Density : Not available

Specific Gravity : 1.465

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 Solubility
 : Insoluble in water.

 Log Pow
 : Not available

 Log Kow
 : Not available

 Viscosity, Kinematic
 : Not available

 Viscosity, Dynamic
 : Not available

 Explosion Data – Sensitivity to Mechanical Impact
 : Not available

 Explosion Data – Sensitivity to Static Discharge
 : Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Contains gas under pressure; may explode if heated.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

Hazardous Decomposition Products: Toxic vapors. Hydrogen chloride. Carbon oxides (CO, CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye irritation.

 $\textbf{Respiratory or Skin Sensitization:} \ \ \textbf{May cause an allergic skin reaction.}$

Germ Cell Mutagenicity: Suspected of causing genetic defects.

Teratogenicity: Not available **Carcinogenicity:** May cause cancer.

Specific Target Organ Toxicity (Repeated Exposure): Causes damage to organs through prolonged or repeated exposure.

Reproductive Toxicity: May damage fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure): May cause drowsiness or dizziness.

Aspiration Hazard: May be fatal if swallowed and enters airways.

Symptoms/Injuries After Inhalation: Respiratory tract irritation. May cause drowsiness or dizziness. **Symptoms/Injuries After Skin Contact:** May cause skin irritation. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: May cause eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects. May be fatal if swallowed and enters airways.

Chronic Symptoms: May cause heritable genetic damage. May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure. May cause cancer.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Trichloroethylene (79-01-6)		
LC50 Inhalation Rat (ppm)	8000 ppm/4h	
Paraffin waxes and Hydrocarbon waxes (8	002-74-2)	
LD50 Oral Rat	> 3750 mg/kg	
LD50 Dermal Rabbit	> 3600 mg/kg	
Calcium petroleum sulfonate (61789-86-4)		
LD50 Oral Rat	> 5000 mg/kg	
LD50 Dermal Rabbit	> 4000 mg/kg	
Trichloroethylene (79-01-6)		
IARC Group	1	

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National Toxicity Program (NTP) Status	Evidence of Carcinogenicity, Reasonably anticipated to be Human
	Carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Harmful to aquatic life with long lasting effects.

Trichloroethylene (79-01-6)		
LC50 Fish 1	31.4 - 71.8 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
EC50 Daphnia 1	2.2 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
EC50 Other Aquatic Organisms 1	450 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)	
LC 50 Fish 2	39 - 54 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
EC50 Other Aquatic Organisms 2	175 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)	
Distillates, petroleum, hydrotreated light naphthenic (64742-53-6)		
LC50 Fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)	
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)	

Calcium petroleum sulfonate (61789-86-4)		
LC50 Fish 1	5.7 - 9.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 1	6.2 - 12 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC 50 Fish 2	1.0 - 10.0 mg/l (Exposure time: 96 h - Species: Pimephales promelas [semi-static])	

Persistence and Degradability

Gunslick Gun Flush 16 oz Aerosol	
Persistence and Degradability	May cause long-term adverse effects in the environment.

Bioaccumulative Potential

Bioaccumulative Potential		
Gunslick Gun Flush 16 oz Aerosol		
Bioaccumulative Potential	Not established.	
Trichloroethylene (79-01-6)		
BCF fish 1	17 - 90	
Log Pow	2.29	
Carbon dioxide (124-38-9)		
BCF fish 1	(no bioaccumulation)	
Log Pow	0.83	

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional Information: Container under pressure. Do not drill or burn even after use. Empty product containers may contain hazardous residue. Do not reuse empty containers without commercial cleaning or reconditioning.

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT

Proper Shipping Name : AEROSOLS non-flammable

Hazard Class: 2.2Identification Number: UN1950Label Codes: 2.2ERG Number: 126



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14.1.1 In Accordance with DOT - Limited Quantity by Ground

Proper Shipping Name : None **Hazard Class** : None **Identification Number** : None **Label Codes** : None **ERG Number** : 126



14.2 In Accordance with IMDG

Proper Shipping Name : AEROSOLS non-flammable

Hazard Class : 2.2 **Identification Number** : UN1950 **Label Codes** : 2.2 EmS-No. (Fire) : F-D EmS-No. (Spillage) : S-U **MFAG Number** : 126



14.3 In Accordance with IATA

Proper Shipping Name : AEROSOLS, NON-FLAMMABLE

Identification Number : UN1950 : 2 **Hazard Class** : 2.2 **Label Codes**



14.4 In Accordance with TDG

Proper Shipping Name : AEROSOLS non-flammable

Hazard Class : 2.2 **Identification Number** : UN1950 **Label Codes** : 2.2



SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Gunslick Gun Flush 16 oz Aerosol	
SARA Section 311/312 Hazard Classes	Sudden release of pressure hazard
	Immediate (acute) health hazard
	Delayed (chronic) health hazard
Trichloroethylene (79-01-6)	

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting 0.1 %

Carbon dioxide (124-38-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Distillates, petroleum, hydrotreated light naphthenic (64742-53-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Paraffin waxes and Hydrocarbon waxes (8002-74-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Calcium petroleum sulfonate (61789-86-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Sulfonic acids, petroleum, sodium salts (68608-26-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

US State Regulations

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Trichloroethylene (79-01-6)	
U.S California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of
	California to cause cancer.

Trichloroethylene (79-01-6)

- U.S. California Priority Toxic Pollutants Human Health Criteria
- U.S. California SCAQMD Toxic Air Contaminants Carcinogens
- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Chronic
- U.S. California SDAPCD Toxic Air Contaminants Carcinogenic Impacts Must Be Calculated
- U.S. California Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. Colorado Groundwater Quality Standards
- U.S. Colorado Hazardous Wastes Discarded Chemical Products, Off-Specification Species, Container and Spill Residues
- U.S. Colorado Hazardous Wastes Maximum Concentration for the Toxicity Characteristics
- U.S. Colorado Primary Drinking Water Regulations Maximum Contaminant Level Goals (MCLGs)
- U.S. Colorado Primary Drinking Water Regulations Maximum Contaminant Levels (MCLs)
- U.S. Connecticut Drinking Water Quality Standards Maximum Contaminant Levels
- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Connecticut Volatile Substances
- U.S. Connecticut Water Quality Standards Consumption of Organisms Only
- U.S. Connecticut Water Quality Standards Consumption of Water and Organisms
- U.S. Connecticut Water Quality Standards Health Designations
- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Florida Drinking Water Standards Volatile Organic Contaminants Maximum Contaminant Levels (MCLs)
- U.S. Georgia Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. Idaho Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Idaho Occupational Exposure Limits Acceptable Maximum Peak Above the Ceiling Concentration for an 8-Hour Shift
- U.S. Idaho Occupational Exposure Limits Ceilings
- U.S. Idaho Occupational Exposure Limits TWAs
- U.S. Illinois Toxic Air Contaminant Carcinogens
- U.S. Illinois Toxic Air Contaminants
- U.S. Louisiana Reportable Quantity List for Pollutants
- U.S. Maine Air Pollutants Hazardous Air Pollutants
- U.S. Maine Chemicals of High Concern
- U.S. Maryland Surface Water Quality Standards Consumption of Organisms Only
- U.S. Maryland Surface Water Quality Standards Consumption of Water and Organisms
- U.S. Massachusetts Allowable Ambient Limits (AALs)
- U.S. Massachusetts Allowable Threshold Concentrations (ATCs)
- U.S. Massachusetts Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 2
- U.S. Massachusetts Oil & Hazardous Material List Reportable Quantity
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 2
- U.S. Massachusetts Right To Know List
- U.S. Massachusetts Threshold Effects Exposure Limits (TELs)
- U.S. Massachusetts Toxics Use Reduction Act
- U.S. Michigan Occupational Exposure Limits STELs
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Michigan Polluting Materials List

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- U.S. Minnesota Chemicals of High Concern
- U.S. Minnesota Groundwater Health Risk Limits
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits STELs
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. Missouri Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. Nebraska Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. Nebraska Maximum Concentration of Contaminants for the Toxicity Characteristic
- U.S. New Hampshire Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. New Hampshire Prohibited Volatile Organic Compounds
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual
- U.S. New Jersey Control and Prohibition of Air Pollution by Toxic Substances
- U.S. New Jersey Discharge Prevention List of Hazardous Substances
- U.S. New Jersey Environmental Hazardous Substances List
- U.S. New Jersey Primary Drinking Water Standards Maximum Contaminant Levels MCLs
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New Jersey Special Health Hazards Substances List
- U.S. New Jersey Water Quality Ground Water Quality Criteria
- U.S. New Jersey Water Quality Practical Quantitation Levels (PQLs)
- U.S. New Mexico Water Quality Standards for Ground Water of 10,000 mg/L TDS Concentration or Less
- U.S. New York Occupational Exposure Limits TWAs
- U.S. New York Priority Chemical Avoidance List
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances
- U.S. North Carolina Control of Toxic Air Pollutants
- U.S. North Dakota Air Pollutants Guideline Concentrations 1-Hour
- U.S. North Dakota Air Pollutants Guideline Concentrations 8-Hour
- U.S. North Dakota Air Pollutants Unit Risk Factors
- U.S. North Dakota Hazardous Wastes Discarded Chemical Products, Off-Specification Species, Container and Spill Residues
- U.S. North Dakota Hazardous Wastes Maximum Concentration for the Toxicity Characteristic
- U.S. North Dakota Water Quality Standards Human Health Value for Class III
- U.S. North Dakota Water Quality Standards Human Health Value for Classes I, IA, II
- U.S. Oregon Permissible Exposure Limits Ceilings
- U.S. Oregon Permissible Exposure Limits STELs
- U.S. Oregon Permissible Exposure Limits TWAs
- U.S. Pennsylvania Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels 1-Hour
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels 24-Hour
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels Annual
- U.S. Rhode Island Water Quality Standards Acute Freshwater Aquatic Life Criteria
- U.S. Rhode Island Water Quality Standards Carcinogens
- U.S. Rhode Island Water Quality Standards Chronic Freshwater Aquatic Life Criteria
- U.S. Rhode Island Water Quality Standards Human Health Criteria for Consumption of Aquatic Organisms Only
- U.S. Rhode Island Water Quality Standards Human Health Criteria for Consumption of Water and Aquatic Organisms
- U.S. South Carolina Maximum Contaminant Levels (MCLs)
- U.S. South Carolina Toxic Air Pollutants Maximum Allowable Concentrations
- U.S. South Carolina Toxic Air Pollutants Pollutant Categories
- U.S. Tennessee Occupational Exposure Limits STELs
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas City of Austin Aerosol Paint and Glue Restrictions
- U.S. Texas Drinking Water Standards Maximum Contaminant Levels (MCLs)

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- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Utah Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. Vermont Hazardous Waste Hazardous Constituents
- U.S. Vermont Hazardous Waste Maximum Contaminant Concentration for Toxicity
- U.S. Vermont Permissible Exposure Limits STELs
- U.S. Vermont Permissible Exposure Limits TWAs
- U.S. Virginia Water Quality Standards Known or Suspected Carcinogens
- U.S. Virginia Water Quality Standards Public Water Supply Effluent Limits
- U.S. Virginia Water Quality Standards Surface Waters Not Used for the Public Water Supply Effluent Limits
- U.S. Washington Dangerous Waste Dangerous Waste Constituents List
- U.S. Washington Dangerous Waste Discarded Chemical Products List
- U.S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs
- U.S. West Virginia Air Quality Toxic Air Pollutant Emission Limits
- U.S. West Virginia Water Quality Groundwater Standards Ceiling Concentrations
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 25 Feet to Less Than 40 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 40 Feet to Less Than 75 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 75 Feet or Greater
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights Less Than 25 Feet

Carbon dioxide (124-38-9)

- U.S. Idaho Occupational Exposure Limits TWAs
- U.S. Maine Air Pollutants Greenhouse Gases (GHG)
- U.S. Massachusetts Oil & Hazardous Material List Reportable Quantity
- U.S. Massachusetts Right To Know List
- U.S. Massachusetts Volatile Organic Compounds Exempt From Requirements
- U.S. Michigan Occupational Exposure Limits STELs
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits STELs
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York Occupational Exposure Limits TWAs
- U.S. Oregon Permissible Exposure Limits TWAs
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Tennessee Occupational Exposure Limits STELs
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Permissible Exposure Limits STELs
- U.S. Vermont Permissible Exposure Limits TWAs
- U.S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs

Distillates, petroleum, hydrotreated light naphthenic (64742-53-6)

- U.S. Massachusetts Right To Know List
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term

Paraffin waxes and Hydrocarbon waxes (8002-74-2)

- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)

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- U.S. Massachusetts Right To Know List
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. North Dakota Air Pollutants Guideline Concentrations 8-Hour
- U.S. Oregon Permissible Exposure Limits TWAs
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Permissible Exposure Limits TWAs
- U.S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs

Calcium petroleum sulfonate (61789-86-4)

- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term

Sulfonic acids, petroleum, sodium salts (68608-26-4)

- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term

Canadian Regulations

Gunslick Gun Flush 16 oz Aerosol

WHMIS Classification Class A - Compressed Gas

Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects





Trichloroethylene (79-01-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

WHMIS Classification Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects

Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Carbon dioxide (124-38-9)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

WHMIS Classification Class A - Compressed Gas

Distillates, petroleum, hydrotreated light naphthenic (64742-53-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification

Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Paraffin waxes and Hydrocarbon waxes (8002-74-2)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Calcium petroleum sulfonate (61789-86-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects

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Sulfonic acids, petroleum, sodium salts (68608-26-4)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION

Revision date : 4/27/2016

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible for the Preparation of This Document

Federal Cartridge Company 900 Ehlen Drive Anoka, MN 55303 T 1-800-635-7656

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.

North America GHS US 2012 & WHMIS 2

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