Safety Data Sheet



Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name

Gun Scrubber Synthetic Safe Firearm Cleaner

Synonyms

 Gun Scrubber(R) Synthetic Safe Cleaner; Gun Scrubber(R) Synthetic Safe Cleaner -Aerosol

Product Code

33340; 33344; 33348

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

Relevant identified use(s)

• For the cleaning of firearm metal parts

1.3 Details of the supplier of the safety data sheet

Manufacturer

Birchwood Casey, LLC

7887 Fuller Road, Suite 100 Eden Prairie, MN 55344

United States

www.birchwoodcasey.com

Telephone (General) • 952-388-6717

1.4 Emergency telephone number

Manufacturer • 1-800-424-9300

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP

Flammable Aerosols 1 - H222
 Skin Irritation 2 - H315

Eye Irritation 2 - H319

Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335

Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336

Reproductive Toxicity 2 - H361f

Specific Target Organ Toxicity Repeated Exposure 2 - H373 Hazardous to the aquatic environment Chronic 2 - H411

DSD/DPD • Extremely Flammable (F+)

Harmful (Xn) Irritant (Xi)

Substances Toxic To Reproduction - Category 3

Dangerous to the Environment (N)

R12, R36/38, R48/20, R51, R53, R62, R67

2.2 Label Elements

CLP

DANGER









Hazard statements • H222 - Extremely flammable aerosol

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H361f - Suspected of damaging fertility.

H373 - May cause damage to organs through prolonged or repeated exposure.

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements

Prevention • P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Pressurized container: Do not pierce or burn, even after use.

P260 - Do not breathe mists, vapours, and/or spray.

P264 - Wash thoroughly after handling.

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

P273 - Avoid release to the environment.

P280 - Wear protective gloves and eye/face protection, .

Response • P391 - Collect spillage.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

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

P321 - Specific treatment, see supplemental first aid information.

P362 - Take off contaminated clothing and wash before reuse.

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

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.

P309+P311 - IF exposed or if you feel unwell: Call a POISON CENTER or

doctor/physician.

Storage/Disposal • P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding

P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD









Risk phrases • R12 - Extremely flammable.

R36/38 - Irritating to eyes and skin.

R48/20 - Harmful: danger of serious damage to health by prolonged exposure through

R51 - Toxic to aquatic organisms.

R53 - May cause long-term adverse effects in the aquatic environment.

R62 - Possible risk of impaired fertility.

R67 - Vapours may cause drowsiness and dizziness.

Safety phrases • S9 - Keep container in a well ventilated place

S16 - Keep away from sources of ignition - No Smoking.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 - Wear suitable gloves.

S57 - Use appropriate containment to avoid environmental contamination.

2.3 Other Hazards

CLP

According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

DSD/DPD

According to European Directive 1999/45/EC this material is considered dangerous.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

Flammable Aerosols 1 Skin Irritation 2 Eye Irritation 2A

Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation

Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects

Reproductive Toxicity 2

Specific Target Organ Toxicity Repeated Exposure 2

2.2 Label elements **OSHA HCS 2012**

DANGER







Hazard statements • Extremely flammable aerosol

Causes skin irritation

Causes serious eye irritation May cause respiratory irritation May cause drowsiness or dizziness

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention • Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Do not breathe mists, vapours, and/or spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves, clothing, and eye/face protection, .

Response . IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

If on skin: Wash with plenty of water.

Specific treatment, see supplemental first aid information. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

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/attention.

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Storage/Disposal • Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

OSHA HCS 2012

• Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to: WHMIS

2.1 Classification of the substance or mixture

WHMIS

Flammable Aerosols - B5
 Other Toxic Effects - D2A

 Other Toxic Effects - D2B

2.2 Label elements WHMIS





Flammable Aerosols - B5
 Other Toxic Effects - D2A
 Other Toxic Effects - D2B

2.3 Other hazards

WHMIS

 In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

Material does not meet the criteria of a substance.

3.2 Mixtures

			Compos	ition	
Chemical Name Identifiers		%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Methylpentanes	NDA	> 9%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
Methylcyclopentane	CAS:96-37-7 EC Number:202- 503-2	> 9%	NDA	EU DSD/DPD: Annex VI, Table 3.2: F; R11; Xn; R48/20; R67 EU CLP: Annex VI, Table 3.1: Flam. Liq. 2, H225; STOT RE 2 (PNS), H373; STOT SE 3: Narc., H336 OSHA HCS 2012: Flam. Liq. 2, STOT RE 2 (PNS); STOT SE 3, Narc.	NDA
Isopropyl alcohol	CAS:67-63-0 EC Number:200- 661-7 EU Index:603- 117-00-0	> 9%	Inhalation-Rat LC50 • 16000 ppm 8 Hour (s) Skin-Rabbit LD50 • 12800 mg/kg Ingestion/Oral-Rat LD50 • 5000 mg/kg	EU DSD/DPD: Annex VI, Table 3.2: F; R11; Xi; R36; R67 EU CLP: Annex VI, Table 3.1: Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3: Narc., H336 OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2A;	NDA
				EU DSD/DPD: Annex VI, Table 3.2: F; R11; Repr. 3;	

Hexane	CAS:110-54-3 EC Number:203- 777-6 EU Index:601- 037-00-0	> 9%	Ingestion/Oral-Rat LD50 • 25 g/kg Inhalation-Rat LC50 • 48000 ppm 4 Hour(s)	R62; Xn; R65-48/20; Xi; R38; R67; N; R51-53 EU CLP : Annex VI, Table 3.1: Flam. Liq. 2, H225; Repr. 2, H361f; Asp. Tox. 1, H304; STOT RE 2*, H373; Skin Irrit. 2, H315; STOT SE 3: Narc., H336; Aquatic Chronic 2, H411 OSHA HCS 2012 : Flam. Liq. 2; Repr. 2; STOT RE 2 (CNS & Nervous System); Skin Irrit. 2; Eye Irrit. 2B; STOT SE 3: Narc. & Resp. Irrit.; Asp. Tox. 1	NDA
Carbon dioxide	CAS:124-38-9 EC Number:204- 696-9	1% TO 5%	Inhalation-Rat LC50 • 470000 ppm 30 Minute(s)	EU DSD/DPD: Not Classified EU CLP: Self Classified: Press. Gas - Comp., H280 OSHA HCS 2012: Press. Gas - Comp.; Simp. Asphyx.	NDA

See Section 11 for Toxicological Information. See Section 16 for full text of H-statements and R-phrases.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

 Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin

• In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Take off contaminated clothing. If irritation develops and persists, get medical attention.

Eye

In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

• If victim is conscious, give 1 – 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

• Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician

All treatments should be based on observed signs and symptoms of distress in the
patient. Consideration should be given to the possibility that overexposure to materials
other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media • Water spray, carbon dioxide, dry chemical.

Unsuitable Extinguishing Media

No data available

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

Containers may explode when heated.

Vapor explosion hazard indoors, outdoors or in sewers.

HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.

Many liquids are lighter than water.

Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).

Runoff to sewer may create fire or explosion hazard.

Vapors may form explosive mixtures with air.

Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products

No data available

5.3 Advice for firefighters

Structural firefighters' protective clothing will only provide limited protection.
 Wear positive pressure self-contained breathing apparatus (SCBA).
 Move containers from fire area if you can do it without risk.
 LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

 Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with skin, eyes or clothing. Do not breathe fume, mist, vapours and/or spray.

Emergency Procedures

• As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. LARGE SPILL: Consider initial downwind evacuation for at least 300 meters (1000 feet) ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

Stop leak if you can do it without risk.

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Use clean non-sparking tools to collect absorbed material. A vapor suppressing foam may be used to reduce vapors.

All equipment used when handling the product must be grounded. LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

LARGE SPILLS: Water spray may reduce vapor; but may not prevent ignition in closed spaces.

6.4 Reference to other sections

 Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

• Use only in well ventilated areas. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe fume, mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing. Avoid contact with heat and ignition sources. Take precautionary measures against static charges. Do not puncture or incinerate container. Empty containers may still have product residue and flammable vapors. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage

• Store in a cool/low-temperature, well-ventilated place away from heat and ignition sources. Do not store where temperature may exceed 120°F.

7.3 Specific end use(s)

Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

				Exposure Limits	/Guidelines			
	Result	AC	GIH	Canada Ontario	Canada Quebec	Eur	оре	Germany DFG
	TWAs	5000 ppm TWA		5000 ppm TWA	5000 ppm TWAEV; 5000 p 9000 mg/m3 TWAEV 9000 r		TWA; 13 TWA	Not established
Ondres disside	STELs	30000 ppm	STEL	30000 ppm STEL	30000 ppm STEV; 54000 mg/m3 STEV	Not establi	shed	Not established
Carbon dioxide (124-38-9)	Ceilings	Not establi	shed	Not established	Not established	Not establi	shed	10000 ppm Peak; 18200 mg/m3 Peak
	MAKs	Not established		Not established	Not established	Not established		5000 ppm TWA MAK; 9100 mg/m3 TWA MAK
Methylcyclopentane (96-37-7)	Ceilings	Not establi	shed	Not established	Not established	Not established		1000 ppm Peak (except n-Hexane, listed under Hexane); 3600 mg/m3 Peak (except n-Hexane, listed under Hexane)
	MAKs	Not established		Not established	Not established	Not established		500 ppm TWA MAK; 1800 mg/m3 TWA MAK
			Ex	posure Limits/Gu	idelines (Con't.)			
		Result	Germa	ny TRGS	NIOSH		0	SHA
Carbon dioxide (124-38-9)		(exposure TWAs 9100 mg/n		TWA AGW factor 2); n3 TWA posure factor	5000 ppm TWA; 9000 mg/m3 TWA		5000 ppm TWA; 9000 mg/m3 TWA	
		STELs	Not established		30000 ppm STEL; 54000 mg/m3 STEL		Not established	
Methylcyclopentane (96-37-7)		TWAs	1800 mg/n	factor 2);	Not established		Not establ	ished

Exposure Control Notations

Germany DFG

- •Methylcyclopentane (96-37-7): **Pregnancy:** (classification not yet possible)
- •Hexane (110-54-3): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)
- •Isopropyl alcohol (67-63-0): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)

8.2 Exposure controls

Engineering Measures/Controls • Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof electrical/ventilating/lighting/equipment.

Personal Protective Equipment

Respiratory

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

Wear safety goggles.

Skin/Body

Environmental Exposure Controls

- Wear appropriate gloves.
- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

K = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

NIOSH = National Institute of Occupational Safety and Health

STEV = Short Term Exposure Value

OSHA = Occupational Safety and Health Administration

Short Term Exposure Limits are based on 15-minute

SIEL = exposures

TWAEV = Time-Weighted Average Exposure Value

= Time-Weighted Averages are based on 8h/day, 40h/week

exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Aerosol	Appearance/Description	Aerosol
Color	Data lacking	Odor	Data lacking
Odor Threshold	Data lacking		
General Properties			
Boiling Point	151 to 180 F(66.1111 to 82.2222 C)	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	Data lacking	Water Solubility	Data lacking
Viscosity	Data lacking	Explosive Properties	Not Explosive.
Oxidizing Properties:	Not an oxidizer.		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Heavier than air
Evaporation Rate	Slower than ether	Volatiles (Wt.)	5.9 lbs/gal
Volatiles (Vol.)	100 %		
Flammability			
Flash Point	-15 F(-26.1111 C) TCC (Tagliabue Closed Cup)	UEL	Data lacking
LEL	>1.2%	Autoignition	Data lacking
Flammability (solid, gas)	Flammable aerosol.		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

• Hazardous polymerization will not occur.

10.4 Conditions to avoid

• Avoid high temperatures (>120°F) and ignition sources.

10.5 Incompatible materials

Strong oxidizers.

10.6 Hazardous decomposition products

 Thermal decomposition may produce carbon monoxide, carbon dioxide, sulfur oxides, aldehydes.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

	Components					
Carbon dioxide (1% TO 5%)		Acute Toxicity: Inhalation-Rat LC50 • 470000 ppm 30 Minute(s); Reproductive: Inhalation-Rat TCLo • 6 pph 24 Hour(s)(10D preg); Reproductive Effects: Specific Developmental Abnormalities: Musculoskeletal system; Reproductive Effects: Specific Developmental Abnormalities: Cardiovascular (circulatory) system; Reproductive Effects: Specific Developmental Abnormalities: Respiratory system				
Methylcyclopentane (> 9%)		Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 10 g/kg 4 Week(s)-Intermittent; Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain; Related to Chronic Data:Death in the Other Multiple Dose data type field				

GHS Properties	Classification		
Acute toxicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met		
Aspiration Hazard	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met		
Carcinogenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met		
Germ Cell Mutagenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met		
Skin corrosion/Irritation	EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2		
Skin sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met		
STOT-RE	EU/CLP • Specific Target Organ Toxicity Repeated Exposure 2 OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 2		
STOT-SE	EU/CLP • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation		
Toxicity for Reproduction	EU/CLP • Toxic to Reproduction 2 OSHA HCS 2012 • Toxic to Reproduction 2		

Respiratory sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	EU/CLP • Eye Irritation 2 OSHA HCS 2012 • Eye Irritation 2A

Target Organs

Nervous System, Central Nervous System (CNS)

Route(s) of entry/exposure **Potential Health Effects** Inhalation

Inhalation, Skin, Eye, Ingestion

Acute (Immediate)

 May cause respiratory irritation. May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death. Extremely high vapor concentrations may lead to asphyxiation.

Chronic (Delayed)

No data available.

Skin

Acute (Immediate) Causes skin irritation.

Chronic (Delayed)

No data available.

Eve

Acute (Immediate)

• Causes serious eye irritation.

Chronic (Delayed)

No data available.

Ingestion

Acute (Immediate)

May cause irritation to the gastrointestinal tract.

Chronic (Delayed)

No data available.

Other

Chronic (Delayed)

 Chronic exposure to Hexane, a component of this material, may produce important peripheral neuropathy (motor sensory) and CNS abnormalities.

Reproductive Effects

• Repeated and prolonged exposure may affect the reproductive system.

Key to abbreviations

LC = Lethal Concentration

SEV = Severe

LD = Lethal Dose

TC = Toxic Concentration

MLD = Mild

Section 12 - Ecological Information

12.1 Toxicity

Gun	Scrubber Synthetic Safe Firear	m Cleaner			
Dosage	Species	Duration	Results	Exposure Conditions	Comments
0.00025 mg/L	Fish: Fathead minnow	96 Hour(s)	LC50	NDA	Data for Hexane

Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Material data lacking.

12.3 Bioaccumulative potential

Material data lacking.

12.4 Mobility in Soil

Material data lacking.

12.5 Results of PBT and vPvB assessment

• No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN1950	Aerosols	2.1	NDA	NDA
TDG	UN1950	AEROSOLS	2.1	NDA	NDA
IMO/IMDG	UN1950	AEROSOLS	2.1	NDA	NDA
IATA/ICAO	UN1950	Aerosols, flammable	2.1	NDA	NDA

14.6 Special precautions for user

. None specified.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Data lacking.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute, Chronic, Fire, Pressure(Sudden Release of)

State Right To Know					
Component CAS MA NJ PA					
Carbon dioxide	124-38-9	Yes	Yes	Yes	

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Carbon dioxide	124-38-9	Yes	No	Yes	No	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

Carbon dioxide

A; Uncontrolled product according to WHMIS

Format: EU CLP/REACH Language: English (US) WHMIS, EU CLP, EU DSD/DPD, OSHA HCS 2012

		classification criteria (solid)
Canada - WHMIS - Ingredient Disclosure List Carbon dioxide	124-38-9	1 %
Environment		
Canada - 2004 NPRI (National Pollutant Release Inventory) • Carbon dioxide	124-38-9	Not Listed
Canada - 2005 NPRI (National Pollutant Release Inventory) • Carbon dioxide	124-38-9	Not Listed
Canada - CEPA - Greenhouse Gases Subject to Mandatory Reporting • Carbon dioxide	124-38-9	1 GWP
Canada - CEPA - Priority Substances List • Carbon dioxide	124-38-9	Not Listed
Canada - DWQ (Drinking Water Quality) - IMACs • Carbon dioxide	124-38-9	Not Listed
Other		
Canada - Accelerated Reduction/Elimination of Toxics (ARET) • Carbon dioxide	124-38-9	Not Listed
Canada New Brunswick		
Environment Canada - New Brunswick - Ozone Depleting Substances - Schedule A		
Carbon dioxide	124-38-9	Not Listed
Canada - New Brunswick - Ozone Depleting Substances - Schedule B • Carbon dioxide	124-38-9	Not Listed
Europe		
Other EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification • Carbon dioxide	124-38-9	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits Carbon dioxide	124-38-9	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling • Carbon dioxide	124-38-9	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations • Carbon dioxide	124-38-9	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases • Carbon dioxide	124-38-9	Not Listed
Mexico		
Other		

Other

Mexico - Hazard Classifications

Carbon dioxide	124-38-9	Hazard Class = 2.2 UN1013; Hazard Class = 9 PG = III UN1845; Hazard Class = 2.3 UN2187
Mexico - Regulated Substances • Carbon dioxide	124-38-9	UN1013; UN1845; UN2187
nited States		
abor		
U.S OSHA - Process Safety Management - Highly Hazardous Chemicals • Carbon dioxide	124-38-9	Not Listed
U.S OSHA - Specifically Regulated Chemicals • Carbon dioxide	124-38-9	Not Listed
nvironment		
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants • Carbon dioxide	124-38-9	Not Listed
 U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities Carbon dioxide 	124-38-9	Not Listed
U.S CERCLA/SARA - Radionuclides and Their Reportable QuantitiesCarbon dioxide	124-38-9	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs • Carbon dioxide	124-38-9	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs • Carbon dioxide	124-38-9	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting • Carbon dioxide	124-38-9	Not Listed
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing • Carbon dioxide	124-38-9	Not Listed
nited States - California		
nvironment U.S California - Proposition 65 - Carcinogens List • Carbon dioxide	124-38-9	Not Listed
U.S California - Proposition 65 - Developmental Toxicity • Carbon dioxide	124-38-9	Not Listed
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL) • Carbon dioxide	124-38-9	Not Listed
U.S California - Proposition 65 - No Significant Risk Levels (NSRL) • Carbon dioxide	124-38-9	Not Listed
II.S. California Drangaition 65. Depreductive Toxicity. Female		

Preparation Date: 05/March/2015 Revision Date: 05/March/2015

· Carbon dioxide

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

Not Listed

124-38-9

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

Carbon dioxide
 124-38-9 Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

Carbon dioxide
 124-38-9 Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• Carbon dioxide 124-38-9 Not Listed

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Relevant Phrases (code & full text)

H225 - Highly flammable liquid and vapour

H280 - Contains gas under pressure; may explode if heated

H304 - May be fatal if swallowed and enters airways

R11 - Highly flammable.

R36 - Irritating to eyes.

R38 - Irritating to skin.

R65 - Harmful: may cause lung damage if swallowed.

Last Revision Date Preparation Date

Disclaimer/Statement of Liability

05/March/2015

• 05/March/2015

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Key to abbreviations

NDA = No data available