

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Date of Issue: 02/23/2023 Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: FLAMELESS EXPULSION CS GRENADE

Product Code: 2042 (1011829)

1.2. Intended Use of the Product

Crowd control device

1.3. Name, Address, and Telephone of the Responsible Party

Company

Defense Technology, LLC

1855 South Loop

Casper, WY 82601

United States

Tel +1 (307) 235-2136

customercare.wy@defense-technology.com

L.4. Emergency Telephone Number

Emergency Number : VelocityEHS

(800)255-3924 (North America) +1 (813)248-0585 (International)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US/CA Classification

Gases under pressure Compressed gas	H280
Flammable solids Category 1	H228
Acute toxicity (oral) Category 4	H302
Acute toxicity (inhalation:dust,mist) Category 3	H331
Skin corrosion/irritation Category 2	H315
Serious eye damage/eye irritation Category 2	H319
Respiratory sensitization, Category 1	H334
Skin sensitization, Category 1	H317
Specific target organ toxicity (repeated exposure) Category 1	H372
Hazardous to the aquatic environment - Acute Hazard Category 3	H402
Hazardous to the aquatic environment - Chronic Hazard Category 3	H412

2.2. Label Elements

GHS-US/CA Labeling

Hazard Pictograms (GHS-US/CA)









Signal Word (GHS-US/CA)

Hazard Statements (GHS-US/CA)

Danger

: H228 - Flammable solid.

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

H302 - Harmful if swallowed. H315 - Causes skin irritation.

 $\ensuremath{\mathsf{H317}}$ - $\ensuremath{\mathsf{May}}$ cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H331 - Toxic if inhaled.

H334 - May cause an allergy or asthma symptoms or breathing difficulties if inhaled.

02/23/2023 EN (English US) 1/19

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

H402 - Harmful to aquatic life.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statements (GHS-US/CA):

P201 - Obtain special instructions before use.

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

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P260 - Do not breathe dust.

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, and eye protection.

P284 - Wear respiratory protection.

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

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

P304+P340 - IF INHALED: Remove person to fresh air and keep 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.

P321 - Specific treatment (see section 4 on this SDS).

P330 - Rinse mouth.

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

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

P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

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

P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish.

P405 - Store locked up.

P410+P403 - Protect from sunlight. Store in a well-ventilated place.

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

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US/CA)

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Synonyms	Product	% *	GHS Ingredient
		Identifier		Classification
Carbon dioxide	CARBON DIOXIDE / Carbonic anhydride	(CAS-No.)	30 – 60	Simple Asphy
		124-38-9		
Magnesium oxide	Calcined magnesite / Magnesium oxide / MAGNESIUM OXIDE /	(CAS-No.)	10 – 30	Not classified
(MgO)	Magnesia	1309-48-4		
0-	[(2-Chlorophenyl)methylene]malononitrile / Malononitrile, o-	(CAS-No.)	10 – 30	Acute Tox. 3 (Oral), H301
Chlorobenzylidene	chlorobenzylidene- / Propanedinitrile, [(2-	2698-41-1		Acute Tox. 1 (Inhalation), H330
malononitrile	chlorophenyl)methylene]- / (o-Chlorobenzylidene) malononitrile / 2-Chlorobenzylidene-malononitrile / Propanedinitrile, 2-[(2-			Skin Irrit. 2, H315
	chlorophenyl)methylene]- / CS / o-Chlorobenzalmalononitrile /			Eye Irrit. 2, H319
	ortho-Chlorobenzylidene malononitrile / ((2-Chlorophenyl)-			Resp. Sens. 1, H334
	methylene) propanedinitrile / 2-Chlorobenzalmalononitrile /			Skin Sens. 1, H317
	ortho-Chlorobenzylidenemalononitrile / o-chlorobenzylidene-			STOT SE 3, H335
	malononitrile / o-Chlorobenzylidene-malononitrile			Comb. Dust

02/23/2023 EN (English US) 2/19

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Nitrocellulose	NITROCELLULOSE / COLLODION / Nitrocellulose, mixture, without	(CAS-No.)	1-5	Flamm. Sol. 1, H228
Wittocellalose	pigment / Guncotton / Collodion / Cellulose, nitrate / Cellulose nitrate / Pyroxylin	9004-70-0	1 3	110111111111111111111111111111111111111
Barium chromate	Baryta Yellow / C.I. Pigment Yellow 31 / Chromic acid (H2CrO4),	(CAS-No.)	1-5	Resp. Sens. 1, H334
	barium salt (1:1) / Chromic acid, barium salt (1:1) / Lemon Yellow	10294-40-3		Skin Sens. 1A, H317
	/ Permanent Yellow / Pigment Yellow 31 / Ultramarine Yellow			Carc. 1A, H350
Manganese	Manganese, elemental / Manganese metal / manganese	(CAS-No.)	1-5	Flam. Sol. 2, H228
		7439-96-5		STOT RE 1, H372
				Aquatic Acute 2, H401
				Aquatic Chronic 2, H411
				Comb. Dust
Chromic acid	Lead chromate / C.I. Pigment Yellow 34 / Chrome Yellow / Chromic acid (H2CrO4), lead(2+) salt / Chromic acid, lead(2+) salt	(CAS-No.)	1-5	Acute Tox. 4 (Oral), H302
(H2CrO4), lead(2+)	(1:1) / Lead chromate (PbCrO4) / Lead chromate(VI) / Lead(II)	7758-97-6		Acute Tox. 4
salt (1:1)	chromate / Lead(2+) chromate / C.I. 77600 / Lead(II)			(Inhalation:dust,mist), H332
	tetraoxidochromate / lead chromate			Carc. 1B, H350
				Repr. 1A, H360
				STOT RE 2, H373
				Aquatic Acute 1, H400
(5. 202)	C.I. 77491 / C.I. Pigment Red 101 / Diiron trioxide / Ferric oxide /	(CAC No.)	1 5	Aquatic Chronic 1, H410
Iron oxide (Fe2O3)	Iron sesquioxide / Iron(III) oxide / Red Iron Oxide / Rouge / CI	(CAS-No.)	1-5	Comb. Dust
	77491 / Iron trioxide / Sienna / Pigment Red 101 / Red iron oxide	1309-37-1		
	/ Red iron oxide pigment / Iron Oxide Red / Diiron(III) trioxide /			
	Iron oxide / Ferric oxide red / Iron oxide, red			
Titanium	Titanium powder, dry / Titanium powder / Titanium powder,	(CAS-No.)	0.1 - 1	Flam. Sol. 1, H228
	wetted / Titanium sponge powders / titanium	7440-32-6		Comb. Dust
Zirconium	Zirconium, elemental / Zirconium metal / Zirconium powder	(CAS-No.)	0.1 - 1	Pyr. Sol. 1, H250
	(pyrophoric) / Zirconium suspended in a flammable liquid /	7440-67-7		Water-react. 1, H260
	Zirconium powder, dry / Zirconium metallic			Comb. Dust
Iron	Iron, elemental / Direct reduced Iron / Iron, reduced / Elemental	(CAS-No.)	0.1 – 1	Comb. Dust
	iron / IRON POWDER / iron	7439-89-6		
Copper	Copper, metallic / Pigment Metal 2 / Copper metal / CI 77400 /	(CAS-No.)	0.1 - 1	Comb. Dust
	Copper, elemental / C.I. Pigment Metal 2 / C.I. 77400 / Granulated copper / copper	7440-50-8		
1,3-Benzenediol,	1,3-Benzenediol, 2,4,6-trinitro-, lead(2+) salt (1:1) / Lead 2,4,6-	(CAS-No.)	<0.1	Acute Tox. 4 (Oral), H302
2,4,6-trinitro-, lead	trinitro-m-phenylene dioxide / Lead 2,4,6-trinitroresorcinoxide /	15245-44-0		Acute Tox. 4
salt	Lead styphnate / Lead trinitroresorcinate / Tricinate / 2,4,6-			(Inhalation:dust,mist), H332
	Trinitro-1,3-phenylenedioxylead(II) / Lead 2,4,6- Trinitroresorcinoxide / Lead styphnate, wetted / Normal lead			Carc. 1B, H350
	styphnate / Propylene / Lead (II) 2,4,6-trinitrobenzene-1,3-diolate			Repr. 1A, H360
	stypiniate / Fropylene / Ledu(ii) 2,4,0-tillitiobelizelle-1,3-diolate			STOT RE 2, H373
				Aquatic Acute 1, H400
				Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

General: First aid personnel should wear appropriate protective equipment during any rescue. Rescuers must don respiratory protection before approaching exposed persons. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: First, take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate respiratory protective equipment, use the buddy system), then remove the exposed person to fresh air. Keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. Immediately call a poison center or doctor/physician.

Skin Contact: Remove contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. Wash affected area with soap and water for at least 15 minutes. Obtain medical attention if irritation/rash develops or persists.

Eye Contact: Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

02/23/2023 EN (English US) 3/19

^{*}Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin sensitization. Causes skin irritation. Causes serious eye irritation. Harmful if swallowed. Toxic if inhaled. Energetic effects (blast effects, heat, noise, and shrapnel) from functioning of the product can cause serious physical injuries.

Inhalation: Inhalation of this material can cause serious health effects in small amounts, leading to unconsciousness and death. Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction. Irritation of the respiratory tract and the other mucous membranes.

Skin Contact: May cause an allergic skin reaction. Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

Ingestion: This material is harmful orally and can cause adverse health effects or death in significant amounts.

Chronic Symptoms: May cause sensitization by inhalation and skin contact.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: DO NOT FIGHT FIRES INVOLVING EXPLOSIVES. Water may be applied through fixed extinguishing system (sprinklers) as long as people need not be present for the system to operate.

Unsuitable Extinguishing Media: DO NOT fight fires involving explosives.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Flammable solid.

Explosion Hazard: Risk of explosion if heated under confinement.

Reactivity: Pressurized container: may burst if heated.

5.3. Advice for Firefighters

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

Firefighting Instructions: DO NOT ATTEMPT TO FIGHT FIRE. Immediately evacuate all personnel from the area to a safe distance. Guard against re-entry. Thermal decomposition can lead to release of irritating gases and vapors.

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

Hazardous Combustion Products: Metallic oxides. Oxides and compounds of carbon, nitrogen, sulfur, and chlorine.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Wear appropriate personal protective equipment. Do not breathe dust generated during deployment. Keep away from heat, sparks, open flames, hot surfaces. – No smoking. Do not get in eyes, on skin, or on clothing. Evacuate danger area.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Wear protective clothing and respiratory protection if dust or fumes are present.

Emergency Procedures: Evacuate unnecessary personnel. Evacuate danger area.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection. Wear protective clothing and respiratory protection if dust or fumes are present.

Emergency Procedures: Eliminate ignition sources. Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. Absorb and contain with inert material. Place contents in suitable container for disposal. As an immediate precautionary measure, isolate spill or leak area in all directions. Ventilate area.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Mechanically recover the product. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

02/23/2023 EN (English US) 4/19

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: CS Agent released during deployment is toxic by inhalation and a severe irritant to skin, eyes, and respiratory system.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Keep away from sources of ignition - No smoking. Avoid contact with eyes, skin and clothing. Handle empty containers with care because they may still present a hazard. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. Do not breathe dust.

Hygiene Measures: This product is an explosive and should only be used under the supervision of trained and licensed personnel. 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.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.

Storage Conditions: Store locked up/in a secure area. Store in accordance with local regulations on explosives.

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

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

7.3. Specific End Use(s)

Crowd control device

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Copper (7440-50-8)		
USA ACGIH	ACGIH OEL TWA	0.2 mg/m³ (fume)
USA OSHA	OSHA PEL (TWA) [1]	0.1 mg/m³ (fume)
		1 mg/m³ (dust and mist)
USA NIOSH	NIOSH REL (TWA)	1 mg/m³ (dust and mist)
		0.1 mg/m³ (fume)
USA IDLH	IDLH	100 mg/m³ (dust, fume and mist)
Alberta	OEL TWA	0.2 mg/m³ (fume)
		1 mg/m³ (dust and mist)
British Columbia	OEL TWA	1 mg/m³ (dust and mist)
		0.2 mg/m³ (fume)
Manitoba	OEL TWA	0.2 mg/m³ (fume)
New Brunswick	OEL TWA	0.2 mg/m³ (fume)
		1 mg/m³ (dust and mist)
Newfoundland & Labrador	OEL TWA	0.2 mg/m³ (fume)
Nova Scotia	OEL TWA	0.2 mg/m³ (fume)
Nunavut	OEL STEL	3 mg/m³ (dust and mist)
		0.6 mg/m³ (fume)
Nunavut	OEL TWA	0.2 mg/m³ (fume)
		1 mg/m³ (dust and mist)
Northwest Territories	OEL STEL	3 mg/m³ (dust and mist)
		0.6 mg/m³ (fume)
Northwest Territories	OEL TWA	0.2 mg/m³ (fume)
		1 mg/m³ (dust and mist)
Ontario	OEL TWA	0.2 mg/m³ (fume)
		1 mg/m³ (dust and mist)

02/23/2023 EN (English US) 5/19

Safety Data Sheet
According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Prince Edward Island	OEL TWA	0.2 mg/m³ (fume)
Québec	VEMP (OEL TWA)	0.2 mg/m³ (fume)
	(012 : ::::,)	1 mg/m³ (dust and mist)
Saskatchewan	OEL STEL	0.6 mg/m³ (fume)
		3 mg/m³ (dust and mist)
Saskatchewan	OEL TWA	0.2 mg/m³ (fume)
		1 mg/m³ (dust and mist)
Yukon	OEL STEL	0.2 mg/m³ (fume)
		2 mg/m³ (dust and mist)
Yukon	OEL TWA	0.2 mg/m³ (fume)
		1 mg/m³ (dust and mist)
o-Chlorobenzylidene malone	onitrile (2698-41-1)	
USA ACGIH	ACGIH OEL Ceiling [ppm]	0.05 ppm (inhalable fraction and vapor)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen, Skin - potential
		significant contribution to overall exposure by the
		cutaneous route
USA OSHA	OSHA PEL (TWA) [1]	0.4 mg/m³
USA OSHA	OSHA PEL (TWA) [2]	0.05 ppm
USA NIOSH	NIOSH REL (Ceiling)	0.4 mg/m ³
USA NIOSH	NIOSH REL C [ppm]	0.05 ppm
USA IDLH	IDLH	2 mg/m³
Alberta	OEL C	0.4 mg/m ³
Alberta	OEL Ceiling [ppm]	0.05 ppm
British Columbia	OEL Ceiling [ppm]	0.05 ppm
Manitoba	OEL Ceiling [ppm]	0.05 ppm (inhalable fraction and vapor)
New Brunswick	OEL C	0.39 mg/m ³
New Brunswick	OEL Ceiling [ppm]	0.05 ppm
Newfoundland & Labrador	OEL Ceiling [ppm]	0.05 ppm (inhalable fraction and vapor)
Nova Scotia	OEL Ceiling [ppm]	0.05 ppm (inhalable fraction and vapor)
Nunavut	OEL Ceiling [ppm]	0.05 ppm
Northwest Territories	OEL Ceiling [ppm]	0.05 ppm
Ontario	OEL Ceiling [ppm]	0.05 ppm
Prince Edward Island	OEL Ceiling [ppm]	0.05 ppm (inhalable fraction and vapor)
Québec	Plafond (OEL Ceiling) [ppm]	0.05 ppm
Saskatchewan	OEL Ceiling [ppm]	0.05 ppm
Yukon Yukon	OEL STEL OEL STEL [ppm]	0.4 mg/m ³ 0.05 ppm
Yukon	OEL TWA	0.4 mg/m ³
Yukon	OEL TWA [ppm]	0.4 mg/m 0.05 ppm
Magnesium oxide (MgO) (13		0.05 kkm
USA ACGIH	ACGIH OEL TWA	10 mg/m³ (inhalable particulate matter)
USA ACGIH	ACGIH CEL TWA ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA OSHA	OSHA PEL (TWA) [1]	15 mg/m³ (fume, total particulate)
USA IDLH	IDLH	750 mg/m³ (fume)
Alberta	OEL TWA	10 mg/m³ (fume)
British Columbia	OEL STEL	10 mg/m³ (respirable dust and fume)
British Columbia	OEL TWA	10 mg/m³ (fume, inhalable)
		3 mg/m³ (respirable dust and fume)
Manitoba	OEL TWA	10 mg/m³ (inhalable particulate matter)
New Brunswick	OEL TWA	10 mg/m³ (fume)
Newfoundland & Labrador	OEL TWA	10 mg/m³ (inhalable particulate matter)
Nova Scotia	OEL TWA	10 mg/m³ (inhalable particulate matter)
	<u> </u>	1 0/ (partitional and 100.)

02/23/2023 EN (English US) 6/19

Safety Data Sheet
According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

		20 m = /m 3 (in h alable for attack)
Nunavut	OEL STEL	20 mg/m³ (inhalable fraction)
Nunavut	OEL TWA	10 mg/m³ (inhalable fraction)
Northwest Territories	OEL STEL	20 mg/m³ (inhalable fraction)
Northwest Territories	OEL TWA	10 mg/m³ (inhalable fraction)
Ontario	OEL TWA	10 mg/m³ (inhalable particulate matter)
Prince Edward Island	OEL TWA	10 mg/m³ (inhalable particulate matter)
Québec	VEMP (OEL TWA)	10 mg/m³ (inhalable dust)
Saskatchewan	OEL STEL	20 mg/m³ (inhalable fraction)
Saskatchewan	OEL TWA	10 mg/m³ (inhalable fraction)
Yukon	OEL STEL	10 mg/m³ (fume)
Yukon	OEL TWA	10 mg/m³ (fume)
Carbon dioxide (124-38-9)		
USA ACGIH	ACGIH OEL TWA [ppm]	5000 ppm
USA ACGIH	ACGIH OEL STEL [ppm]	30000 ppm
USA OSHA	OSHA PEL (TWA) [1]	9000 mg/m³
USA OSHA	OSHA PEL (TWA) [2]	5000 ppm
USA NIOSH	NIOSH REL (TWA)	9000 mg/m³
USA NIOSH	NIOSH REL TWA [ppm]	5000 ppm
USA NIOSH	NIOSH REL (STEL)	54000 mg/m³
USA NIOSH	NIOSH REL STEL [ppm]	30000 ppm
USA IDLH	IDLH [ppm]	40000 ppm
Alberta	OEL STEL	54000 mg/m³
Alberta	OEL STEL [ppm]	30000 ppm
Alberta	OEL TWA	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	54000 mg/m³
New Brunswick	OEL STEL [ppm]	30000 ppm
New Brunswick	OEL TWA	9000 mg/m ³
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 [ppm]	30000 ppm
Nunavut	OEL TWA [ppm]	5000 ppm
Northwest Territories	OEL STEL [ppm]	30000 ppm
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 (OEL STEL)	54000 mg/m³
Québec	VECD (OEL STEL) [ppm]	30000 ppm
Québec	VEMP (OEL TWA)	9000 mg/m³
Québec	VEMP (OEL TWA) [ppm]	5000 ppm
Saskatchewan	OEL STEL [ppm]	30000 ppm
Saskatchewan	OEL TWA [ppm]	5000 ppm
Jaskatericwan	OLE (WY [PPIII]	Jood ppiii

02/23/2023 EN (English US) 7/19

Safety Data Sheet
According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Yukon	OEL STEL .	27000 mg/m ³
Yukon	OEL STEL [ppm]	15000 ppm
Yukon	OEL TWA	9000 mg/m ³
Yukon	OEL TWA [ppm]	5000 mg/m 5000 ppm
	OEL TWA [ppiii]	3000 ppiii
Manganese (7439-96-5)	ACCILLOSI TMA	0.02 mg/m3 (magainghla maghiaulata maghtan)
USA ACGIH	ACGIH OEL TWA	0.02 mg/m³ (respirable particulate matter)
LICA ACCILI	ACCIII shamisal satagani	0.1 mg/m³ (inhalable particulate matter)
USA ACGIH USA OSHA	ACGIH chemical category	Not Classifiable as a Human Carcinogen 5 mg/m³ (fume)
USA NIOSH	OSHA PEL (Ceiling) NIOSH REL (TWA)	1 mg/m³ (fume)
USA NIOSH	NIOSH REL (TWA)	3 mg/m³
USA IDLH	IDLH	500 mg/m ³
		0.2 mg/m ³
Alberta	OEL TWA	
British Columbia	OEL TWA	0.2 mg/m³ (total)
B.A. a. i. a. b. a.	OFL TWA	0.02 mg/m³ (respirable)
Manitoba	OEL TWA	0.02 mg/m³ (respirable particulate matter) 0.1 mg/m³ (inhalable particulate matter)
New Brunswick	OEL TWA	0.1 mg/m² (innaiable particulate matter) 0.2 mg/m³
Newfoundland & Labrador	OEL TWA	0.02 mg/m³ (respirable particulate matter)
Newloulidiand & Labrador	OELTWA	0.1 mg/m³ (inhalable particulate matter)
Nova Scotia	OEL TWA	0.02 mg/m³ (respirable particulate matter)
NOVA SCOLIA	OLLTWA	0.1 mg/m³ (inhalable particulate matter)
Nunavut	OEL STEL	0.6 mg/m ³
Nunavut	OEL TWA	0.0 mg/m ³
Northwest Territories	OEL TWA	0.6 mg/m ³
Northwest Territories	OEL TWA	0.0 mg/m ³
Ontario	OEL TWA	0.2 mg/m ³
Prince Edward Island	OEL TWA	0.02 mg/m³ (respirable particulate matter)
Prince Edward Island	OELTWA	0.1 mg/m³ (inhalable particulate matter)
Québec	VEMP (OEL TWA)	0.2 mg/m³ (total dust and fume)
Saskatchewan	OEL STEL	0.6 mg/m ³
Saskatchewan	OEL TWA	0.2 mg/m ³
Yukon	OEL C	5 mg/m ³
		3 mg/m
Chromic acid (H2CrO4), lead		0.0002 mg/m³ (inhalable narticulate matter)
USA ACGIH	ACCILLOST STEL	0.0002 mg/m³ (inhalable particulate matter)
USA ACCIU	ACCILI chamical catagon	0.0005 mg/m³ (inhalable particulate matter)
USA ACGIH	ACGIH chemical category	Confirmed Human Carcinogen, dermal sensitizer
Alberta	OEL TWA	0.05 mg/m ³ 0.012 mg/m ³
British Columbia	OEL TWA	0.012 mg/m³ (total)
Difficial Columbia	OLL IWA	0.012 Hig/Hi (total) 0.05 mg/m³ (total)
Manitoba	OEL STEL	0.005 mg/m³ (inhalable particulate matter)
Manitoba	OEL TWA	0.0003 mg/m³ (inhalable particulate matter)
New Brunswick	OEL TWA	0.002 mg/m³
INCAA DI MII SAAICK	OLL TWA	0.012 Hig/Hi 0.05 mg/m ³
Newfoundland & Labrador	OEL STEL	0.0005 mg/m³ (inhalable particulate matter)
Newfoundland & Labrador	OEL TWA	0.0003 mg/m³ (inhalable particulate matter)
Nova Scotia	OEL STEL	0.0005 mg/m³ (inhalable particulate matter)
Nova Scotia	OEL TWA	0.0003 mg/m³ (inhalable particulate matter)
Nunavut	OEL STEL	0.15 mg/m ³
ITAIIATUL		0.036 mg/m ³
	<u> </u>	0.030 IIIB/III

02/23/2023 EN (English US) 8/19

Safety Data Sheet
According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

		O O F THE HAZARDOUS PRODUCTS REGULATION (PEDITURY 11, 2015).
Nunavut	OEL TWA	0.05 mg/m ³ 0.012 mg/m ³
Northwest Territories	OEL STEL	0.15 mg/m ³
Northwest remitories	OLL SIEL	0.036 mg/m ³
Northwest Territories	OEL TWA	0.056 frig/fri
MOLITIMEST TELLITORIES	OLL TWA	0.012 mg/m ³
Ontario	OEL TWA	0.05 mg/m³ (designated substances regulation)
Cintalio	OEE IWA	0.012 mg/m³ (designated substances regulation)
		0.012 mg/m (designated substances regulation) 0.012 mg/m³ (applies to workplaces to which the
		designated substances regulation does not apply)
		0.05 mg/m³ (applies to workplaces to which the designated
		substances regulation does not apply)
Prince Edward Island	OEL STEL	0.0005 mg/m³ (inhalable particulate matter)
Prince Edward Island	OEL TWA	0.0002 mg/m³ (inhalable particulate matter)
Québec	VEMP (OEL TWA)	0.012 mg/m ³
Saskatchewan	OEL STEL	0.036 mg/m ³
		0.15 mg/m ³
Saskatchewan	OEL TWA	0.012 mg/m³
		0.05 mg/m ³
Yukon	OEL TWA	0.05 mg/m³
Zirconium (7440-67-7)		
USA ACGIH	ACGIH OEL TWA	5 mg/m³
USA ACGIH	ACGIH OEL STEL	10 mg/m ³
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (TWA)	5 mg/m ³
USA NIOSH	NIOSH REL (STEL)	10 mg/m³
USA IDLH	IDLH	50 mg/m ³
Alberta	OEL STEL	10 mg/m³
Alberta	OEL TWA	5 mg/m ³
British Columbia	OEL STEL	10 mg/m³
British Columbia	OEL TWA	5 mg/m³
Manitoba	OEL STEL	10 mg/m ³
Manitoba	OEL TWA	5 mg/m³
New Brunswick	OEL STEL	10 mg/m³
New Brunswick	OEL TWA	5 mg/m³
Newfoundland & Labrador	OEL STEL	10 mg/m³
Newfoundland & Labrador	OEL TWA	5 mg/m³
Nova Scotia	OEL STEL	10 mg/m³
Nova Scotia	OEL TWA	5 mg/m³
Nunavut	OEL STEL	10 mg/m³
Nunavut	OEL TWA	5 mg/m³
Northwest Territories	OEL STEL	10 mg/m³
Northwest Territories	OEL TWA	5 mg/m³
Ontario	OEL STEL	10 mg/m³
Ontario	OEL TWA	5 mg/m³
Prince Edward Island	OEL STEL	10 mg/m³
Prince Edward Island	OEL TWA	5 mg/m³
Québec	VECD (OEL STEL)	10 mg/m³
Québec	VEMP (OEL TWA)	5 mg/m³
Saskatchewan	OEL STEL	10 mg/m³
Saskatchewan	OEL TWA	5 mg/m ³
Iron oxide (Fe2O3) (1309-37	<u></u>	
· · · · · · · · · · · · · · · · · · ·		

02/23/2023 EN (English US) 9/19

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

USA ACGIH	ACGIH OEL TWA	5 mg/m³ (respirable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA OSHA	OSHA PEL (TWA) [1]	10 mg/m³ (fume)
	, , , , ,	15 mg/m³ (total dust (Rouge)
		5 mg/m³ (respirable fraction (Rouge)
USA NIOSH	NIOSH REL (TWA)	5 mg/m³ (dust and fume)
USA IDLH	IDLH	2500 mg/m³ (dust and fume)
Alberta	OEL TWA	5 mg/m³ (respirable)
British Columbia	OEL STEL	10 mg/m³ (fume)
British Columbia	OEL TWA	10 mg/m³ (regulated under Rouge-total particulate
		(Rouge)
		3 mg/m³ (regulated under Rouge: particulate matter
		containing no Asbestos and <1% Crystalline silica-
		respirable particulate (Rouge)
		5 mg/m³ (dust and fume)
Manitoba	OEL TWA	5 mg/m³ (respirable particulate matter)
New Brunswick	OEL TWA	5 mg/m³ (particulate matter containing no Asbestos and
		<1% Crystalline silica, dust and fume)
		10 mg/m³ (regulated under Rouge-particulate matter
		containing no Asbestos and <1% Crystalline silica)
Newfoundland & Labrador	OEL TWA	5 mg/m³ (respirable particulate matter)
Nova Scotia	OEL TWA	5 mg/m³ (respirable particulate matter)
Nunavut	OEL STEL	10 mg/m³ (dust and fume)
		20 mg/m³ (regulated under Rouge)
Nunavut	OEL TWA	5 mg/m³ (dust and fume)
		10 mg/m³ (regulated under Rouge)
Northwest Territories	OEL STEL	10 mg/m³ (dust and fume)
		20 mg/m³ (regulated under Rouge)
Northwest Territories	OEL TWA	5 mg/m³ (dust and fume)
		10 mg/m³ (regulated under Rouge)
Ontario	OEL TWA	5 mg/m³ (respirable particulate matter)
Prince Edward Island	OEL TWA	5 mg/m³ (respirable particulate matter)
Québec	VEMP (OEL TWA)	5 mg/m³ (dust and fume)
Saskatchewan	OEL STEL	10 mg/m³ (dust and fume)
		20 mg/m³ (regulated under Rouge)
Saskatchewan	OEL TWA	5 mg/m³ (dust and fume)
		10 mg/m³ (regulated under Rouge)
Yukon	OEL STEL	10 mg/m³ (fume)
		20 mg/m³ (regulated under Rouge)
Yukon	OEL TWA	5 mg/m³ (fume)
		30 mppcf (regulated under Rouge)
		10 mg/m³ (regulated under Rouge)

8.2. Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Proper grounding procedures to avoid static electricity should be followed. Product to be handled in a closed system and under strictly controlled conditions. Use explosion-proof equipment. Gas detectors should be used when toxic gases may be released.

02/23/2023 EN (English US) 10/19

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

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









Materials for Protective Clothing: Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles or safety glasses with side shields.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended.

Thermal Hazard Protection: If material is hot, wear thermally resistant protective gloves.

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State : Solid (contains compressed gas)

Appearance : Solid metal container containing solid contents and compressed gas. Color

according to product specification.

Odor : Odorless pre-depoyment. Pungent/Stinging odour during/after

deployment.

Odor Threshold : No data available pH : No data available Evaporation Rate : No data available Melting Point : No data available Freezing Point : No data available Boiling Point : No data available Roiling Point : No data available

Flash Point : No data available
Auto-ignition Temperature : No data available
Decomposition Temperature : No data available
Flammability (solid, gas) : No data available

Lower Flammable Limit: No data availableUpper Flammable Limit: No data availableVapor Pressure: No data availableRelative Vapor Density at 20°C: No data availableRelative Density: No data available

Specific Gravity: No data availableSolubility: Partly soluble.Partition Coefficient: N-Octanol/Water: No data availableViscosity: No data availableExplosive Properties: No data available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

Pressurized container: may burst if heated.

10.2. Chemical Stability:

Flammable solid.

10.3. Possibility of Hazardous Reactions:

Hazardous polymerization will not occur. Risk of explosion if heated under confinement.

10.4. Conditions to Avoid:

Keep away from open flames, hot surfaces and sources of ignition. Incompatible materials.

10.5. Incompatible Materials:

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous Decomposition Products:

02/23/2023 EN (English US) 11/19

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Thermal decomposition may produce: Metallic oxides. Oxides and compounds of carbon, nitrogen, sulfur, and chlorine.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Likely routes of exposure: Dermal, Eye Contact, Inhalation, Oral.

Acute Toxicity (Oral): Harmful if swallowed.
Acute Toxicity (Dermal): Not classified
Acute Toxicity (Inhalation): Toxic if inhaled.

LD50 and LC50 Data:

Skin Corrosion/Irritation: Causes skin irritation. **Eye Damage/Irritation:** Causes serious eye irritation.

Respiratory or Skin Sensitization: May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic

skin reaction.

Germ Cell Mutagenicity: Not classified **Carcinogenicity:** May cause cancer.

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

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Inhalation of this material can cause serious health effects in small amounts, leading to unconsciousness and death. Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction. Irritation of the respiratory tract and the other mucous membranes. Symptoms/Injuries After Skin Contact: May cause an allergic skin reaction. Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

Symptoms/Injuries After Ingestion: This material is harmful orally and can cause adverse health effects or death in significant amounts.

Chronic Symptoms: May cause sensitization by inhalation and skin contact.

Other information: Health effects are are due to either exposure to products generated during deployment or to energetic physical effects.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Iron (7439-89-6)	· · · · · · · · · · · · · · · · · · ·	
- ()		
LD50 Oral Rat 98.6 g/kg		
Copper (7440-50-8)		
LC50 Inhalation Rat > 5.11 mg/l/4h		
Zinc (7440-66-6)		
LD50 Oral Rat > 2000 mg/kg		
1,3-Benzenediol, 2,4,6-trinitro-, lead salt (15245-44-0)		
LD50 Dermal Rat > 2000 mg/kg		
LC50 Inhalation Rat > 5.05 mg/l/4h		
ATE US/CA (oral) 500.00 mg/kg body weight		
ATE US/CA (dust, mist) 1.50 mg/l/4h		
o-Chlorobenzylidene malononitrile (2698-41-1)		
LD50 Oral Rat 178 mg/kg		
ATE US/CA (gas) 10.00 ppmV/4h		
ATE US/CA (dust, mist) 0.01 mg/l/4h		
Magnesium oxide (MgO) (1309-48-4)		
LD50 Oral Rat 3870 mg/kg	_	
Nitrocellulose (9004-70-0)		
LD50 Oral Rat 5000 mg/kg		
Manganese (7439-96-5)		

02/23/2023 EN (English US) 12/19

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

LD50 Oral Rat	> 2000 mg/kg		
LC50 Inhalation Rat	> 5.14 mg/l/4h		
Iron oxide (Fe2O3) (1309-37-1)			
LD50 Oral Rat	> 10000 mg/kg		
1,3-Benzenediol, 2,4,6-trinitro-, lead salt (15245-44-0)			
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen.		
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.		
Barium chromate (10294-40-3)	Barium chromate (10294-40-3)		
IARC Group	1		
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.		
Chromic acid (H2CrO4), lead(2+) salt (1:1) (7758-97-6)			
IARC Group	1		
National Toxicology Program (NTP) Status	Known Human Carcinogens, Reasonably anticipated to be Human		
	Carcinogen.		
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.		
Iron oxide (Fe2O3) (1309-37-1)			
IARC Group	3		

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

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

200087 Contrain narmar to adaptio me with rong tasting encous.		
Zinc (7440-66-6)		
EC50 - Crustacea [1]	0.169 mg/l	
1,3-Benzenediol, 2,4,6-trinitro-, lead sal	t (15245-44-0)	
EC50 - Crustacea [1]	7 mg/l	
Nitrocellulose (9004-70-0)		
ErC50 algae	579 mg/l	
Manganese (7439-96-5)		
LC50 Fish 1	> 3.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])	
NOEC Chronic Fish	3.6 mg/l (Exposure time: 96h; Species: Oncorhynchus mykiss)	
Iron oxide (Fe2O3) (1309-37-1)		
LC50 Fish 1	100000 mg/l (Exposure time: 96 h - Species: Danio rerio [static])	

12.2. Persistence and Degradability

FLAMELESS EXPULSION CS GRENADE	
Persistence and Degradability	May cause long-term adverse effects in the environment.
Copper (7440-50-8)	
Persistence and Degradability	Not readily biodegradable.

12.3. Bioaccumulative Potential

FLAMELESS EXPULSION CS GRENADE		
Bioaccumulative Potential	Bioaccumulation of metals cannot be excluded.	
1,3-Benzenediol, 2,4,6-trinitro-, lead salt (15245-44-0)		
Partition coefficient n-octanol/water (Log Pow)	-2.19 (at 20 °C)	
Carbon dioxide (124-38-9)		
BCF Fish 1	(no bioaccumulation)	
Partition coefficient n-octanol/water (Log Pow)	0.83	

12.4. Mobility in Soil

FLAMELESS EXPULSION CS GRENADE	
Ecology - Soil	No data available.

12.5. Other Adverse Effects

Other Adverse Effects: None known.

02/23/2023 EN (English US) 13/19

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Treatment Methods: Incinerate at a licensed installation.

Sewage Disposal Recommendations: Do not dispose of waste into sewer.

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid unnecessary release into environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Proper Shipping Name : TEAR GAS CANDLES

Hazard Class : 6.1 Identification Number : UN1700 Label Codes : 6.1, 4.1 ERG Number : 159



Proper Shipping Name : TEAR GAS CANDLES

Hazard Class : 6.1 (4.1)
Identification Number : UN1700
Label Codes : 6.1, 4.1
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-G

14.3. In Accordance with IATA

Cargo Aircraft Only

Proper Shipping Name : TEAR GAS CANDLES

Hazard Class : 6.1 (4.1)
Identification Number : UN1700
Label Codes : 6.1, 4.1
ERG Code (IATA) : 6Fi

14.4. In Accordance with TDG

Proper Shipping Name : TEAR GAS CANDLES

Hazard Class: 6.1Identification Number: UN1700Label Codes: 6.1, 4.1









SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

FLAMELESS EXPULSION CS GRENADE	
SARA Section 311/312 Hazard Classes	Physical hazard - Flammable (gases, aerosols, liquids, or solids)
	Health hazard - Specific target organ toxicity (single or repeated exposure)
	Health hazard - Respiratory or skin sensitization
	Health hazard - Skin corrosion or Irritation
	Health hazard - Serious eye damage or eye irritation
	Health hazard - Acute toxicity (any route of exposure)
Iron (7439-89-6)	
Listed on the United States TSCA (Toxic Subs	stances Control Act) inventory - Status: Active
Copper (7440-50-8)	

02/23/2023 EN (English US) 14/19

Safety Data Sheet
According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active		
Subject to reporting requirements of United States SARA Section 313		
CERCLA RQ	5000 lb no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 μ m	
SARA Section 313 - Emission Reporting	1 %	

02/23/2023 EN (English US) 15/19

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Zinc (7440-66-6)	20, 2012 / Nuies Ailu Regulations Ailu According 10 The Hazardous Products Regulation (February 11, 2013).
<u> </u>	ostances Control Act) inventory - Status: Active
· · · · · · · · · · · · · · · · · · ·	·
Subject to reporting requirements of United States SARA Section 313 CERCLA RQ 454 kg no reporting of releases of this hazardous substance is required if the	
CERCLA RQ	diameter of the pieces of the solid metal released is >100 µm
SARA Section 313 - Emission Reporting	1 % (dust or fume only)
1,3-Benzenediol, 2,4,6-trinitro-, lead salt (
	ostances Control Act) inventory - Status: Active
o-Chlorobenzylidene malononitrile (2698-	
	ostances Control Act) inventory - Status: Active
Magnesium oxide (MgO) (1309-48-4)	
	ostances Control Act) inventory - Status: Active
Carbon dioxide (124-38-9)	
Listed on the United States TSCA (Toxic Sub	ostances Control Act) inventory - Status: Active
Nitrocellulose (9004-70-0)	
Listed on the United States TSCA (Toxic Sub	ostances Control Act) inventory - Status: Active
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data
	Reporting Rule, (40 CFR 711).
Barium chromate (10294-40-3)	
Listed on the United States TSCA (Toxic Sub	ostances Control Act) inventory - Status: Active
Manganese (7439-96-5)	
Listed on the United States TSCA (Toxic Sub	ostances Control Act) inventory - Status: Active
Subject to reporting requirements of United	d States SARA Section 313
SARA Section 313 - Emission Reporting	1 %
Chromic acid (H2CrO4), lead(2+) salt (1:1)	(7758-97-6)
Listed on the United States TSCA (Toxic Sub	ostances Control Act) inventory - Status: Active
EPA TSCA Regulatory Flag	SP - SP - indicates a substance that is identified in a proposed Significant New
	Uses Rule.
Titanium (7440-32-6)	
Listed on the United States TSCA (Toxic Sub	ostances Control Act) inventory - Status: Active
Zirconium (7440-67-7)	
Listed on the United States TSCA (Toxic Sub	ostances Control Act) inventory - Status: Active
Iron oxide (Fe2O3) (1309-37-1)	
Listed on the United States TSCA (Toxic Sub	ostances Control Act) inventory - Status: Active

15.2. US State Regulations

California Proposition 65



WARNING: This product can expose you to 1,3-Benzenediol, 2,4,6-trinitro-, lead salt, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Chemical Name (CAS No.)	Carcinogenicity	Developmental	Female Reproductive	Male Reproductive
		Toxicity	Toxicity	Toxicity
1,3-Benzenediol, 2,4,6-trinitro-	Х			
, lead salt (15245-44-0)				
Chromic acid (H2CrO4),	Х			
lead(2+) salt (1:1) (7758-97-6)				
Barium chromate (10294-40-3)	Х			

Copper (7440-50-8)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

02/23/2023 EN (English US) 16/19

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Zinc (7440-66-6)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

1,3-Benzenediol, 2,4,6-trinitro-, lead salt (15245-44-0)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Massachusetts Right To Know List

Barium nitrate (10022-31-8)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

o-Chlorobenzylidene malononitrile (2698-41-1)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List

Magnesium oxide (MgO) (1309-48-4)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List

Carbon dioxide (124-38-9)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List

Nitrocellulose (9004-70-0)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List

Barium chromate (10294-40-3)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Massachusetts Right To Know List

Manganese (7439-96-5)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

Chromic acid (H2CrO4), lead(2+) salt (1:1) (7758-97-6)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) Special Hazardous Substances
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

Titanium (7440-32-6)

U.S. - New Jersey - Right to Know Hazardous Substance List

Zirconium (7440-67-7)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List

Iron oxide (Fe2O3) (1309-37-1)

02/23/2023 EN (English US) 17/19

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List

15.3. Canadian Regulations

Iron	(7439-89-6)
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Listed on the Canadian DSL (Domestic Substances List)

Copper (7440-50-8)

Listed on the Canadian DSL (Domestic Substances List)

Zinc (7440-66-6)

Listed on the Canadian DSL (Domestic Substances List)

1,3-Benzenediol, 2,4,6-trinitro-, lead salt (15245-44-0)

Listed on the Canadian DSL (Domestic Substances List)

o-Chlorobenzylidene malononitrile (2698-41-1)

Listed on the Canadian NDSL (Non-Domestic Substances List)

Magnesium oxide (MgO) (1309-48-4)

Listed on the Canadian DSL (Domestic Substances List)

Carbon dioxide (124-38-9)

Listed on the Canadian DSL (Domestic Substances List)

Nitrocellulose (9004-70-0)

Listed on the Canadian DSL (Domestic Substances List)

Barium chromate (10294-40-3)

Listed on the Canadian DSL (Domestic Substances List)

Manganese (7439-96-5)

Listed on the Canadian DSL (Domestic Substances List)

Chromic acid (H2CrO4), lead(2+) salt (1:1) (7758-97-6)

Listed on the Canadian DSL (Domestic Substances List)

Titanium (7440-32-6)

Listed on the Canadian DSL (Domestic Substances List)

Zirconium (7440-67-7)

Listed on the Canadian DSL (Domestic Substances List)

Iron oxide (Fe2O3) (1309-37-1)

Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest

: 02/23/2023

Revision
Other Information

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

GHS Full Text Phrases:

Expl. 1.4	Explosive Category 1.4
H280	Contains gas under pressure; may explode if heated
H228	Flammable solid
H250	Catches fire spontaneously if exposed to air
H260	In contact with water releases flammable gases which may ignite spontaneously
H272	May intensify fire; oxidizer
H280	Contains gas under pressure; may explode if heated
H301	Toxic if swallowed
H302	Harmful if swallowed

02/23/2023 EN (English US) 18/19

Safety Data Sheet

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H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H330	Fatal if inhaled
H331	Toxic if inhaled
H332	Harmful if inhaled
H334	May cause an allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H350	May cause cancer
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

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.

NA GHS SDS 2015 (Can, US)

02/23/2023 EN (English US) 19/19