Printing date July 13, 2015

Reviewed on July 13, 2015

### 1 Identification

· Product identifier

· Trade name: Tri-Chamber Flameless CN Grenade

· Article number: 1031 (1012472)

· Recommended use and restriction on use

· Recommended use: Crowd Control Device

· Restrictions on use: Contact manufacturer.

· Details of the supplier of the Safety Data Sheet

· Manufacturer/Supplier:

Safariland, LLC 13386 International Parkway Jacksonville, FL 32218 Customer Care (800) 347-1200



ChemTel Inc.

(800)255-3924, +1 (813)248-0585



## 2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Sol. 1 H228 Flammable solid.



GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 3 H311 Toxic in contact with skin.

Acute Tox. 2 H330 Fatal if inhaled.



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation.

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(Contd. of page 1)

### · Additional information:

There are no other hazards not otherwise classified that have been identified. 0 percent of the mixture consists of ingredient(s) of unknown toxicity.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms











GHS02 GHS05 GHS06 GHS07 GHS08

· Signal word Danger

# · Hazard-determining components of labeling:

2-chloroacetophenone potassium chlorate diphenylamine potassium perchlorate

· Hazard statements

Flammable solid. H228

H301+H311 Toxic if swallowed or in contact with skin.

Fatal if inhaled. H330 H315 Causes skin irritation.

Causes serious eye damage. H318

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

May cause an allergic skin reaction. H317 May cause respiratory irritation. H335

· Precautionary statements

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

Do not breathe dust/fume/gas/mist/vapors/spray. P260

P284 Wear respiratory protection. P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P301+P310 If swallowed: Immediately call a poison center/doctor.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Specific treatment is urgent (see on this label).

P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.

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

breathing.

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

P330 Rinse mouth.

P320

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

If on skin: Wash with plenty of water. P302+P352

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P405 Store locked up.

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(Contd. of page 2)

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

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 4 Fire = 0

Reactivity = 4

The substance possesses oxidizing properties.

· HMIS-ratings (scale 0 - 4)



13 Health = \*3

Fire = 0

REACTIVITY 4 Reactivity = 4

- \* Indicates a long term health hazard from repeated or prolonged exposures.
- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

# 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:

Product will contain various combinations of the following substances. Not all substances will be in each product. .

Mixture of the substances listed below with nonhazardous additions.

_	components:	
532-27-4	2-chloroacetophenone Acute Tox. 2, H300; Acute Tox. 2, H310; Acute Tox. 2, H330 Resp. Sens. 1, H334 Eye Dam. 1, H318 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	
9004-70-0	Nitrocellulose, colloided, granular Expl. 1.1, H201	
3811-04-9	potassium chlorate Ox. Sol. 1, H271 Acute Tox. 4, H302; Acute Tox. 4, H332	
57-50-1	sucrose, pure	
598-62-9	manganese carbonate	
7757-79-1	potassium nitrate  Ox. Sol. 2, H272	
7440-50-8	copper	
1309-48-4	magnesium oxide	
	(Contd.	on page

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#### Trade name: Tri-Chamber Flameless CN Grenade

	(Contd	of page 3
7440-66-6	zinc metal	
7778-74-7	potassium perchlorate Ox. Sol. 1, H271 Acute Tox. 4, H302	
7704-34-9	sulfur  Skin Irrit. 2, H315	
592-87-0	lead dithiocyanate Carc. 1B, H350; Repr. 1A, H360; STOT RE 2, H373 Acute Tox. 4, H302; Acute Tox. 4, H332	
122-39-4	diphenylamine Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT RE 2, H373	
557-04-0	magnesium distearate, pure	
10294-40-3	barium chromate Carc. 1A, H350 Acute Tox. 4, H302; Acute Tox. 4, H332	
69012-64-2	Silica-Amorphous Silica fume	≤ 2.5%
1317-61-9	triiron tetraoxide	
7440-21-3	silicon  Time Flam. Sol. 2, H228	
7429-90-5	aluminium powder (pyrophoric)  Pyr. Sol. 1, H250; Water-react. 2, H261	
16291-96-6	charcoal	
Additional	information:	

### · Additional information:

For the listed ingredient(s), the identity and exact percentage(s) are being withheld as a trade secret.

<ul> <li>Notable</li> </ul>	Trace	Components	(≤	0,1%	w/w)

## 4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air.

Seek immediate medical advice.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Provide oxygen treatment if affected person has difficulty breathing.

· After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

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(Contd. of page 4)

### · After eye contact:

Protect unharmed eye.

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

### · After swallowing:

Unlikely route of exposure.

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

#### · Information for doctor:

### · Most important symptoms and effects, both acute and delayed

Asthma attacks

Blast injury if mishandled.

Dizziness

Irritant to eyes.

Irritant to skin and mucous membranes.

Breathing difficulty

Coughing

Allergic reactions

Disorientation

### · Danger

Danger of blast or crush-type injuries.

Danger of pulmonary edema.

Danger of disturbed cardiac rhythm.

Danger of convulsion.

Danger of impaired breathing.

Danger of cerebral edema.

### · Indication of any immediate medical attention and special treatment needed

Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.

If necessary oxygen respiration treatment.

Contains lead chromate.

Later observation for pneumonia and pulmonary edema.

Product may produce physical injury if mishandled. Treatment of these injuries should be based on the blast and compression effects.

# 5 Fire-fighting measures

### · Extinguishing media

### · Suitable extinguishing agents:

DO NOT fight fire when fire reaches explosives.

Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used. If the fire reaches the cargo, withdraw and let fire burn.

- · For safety reasons unsuitable extinguishing agents: None.
- · Special hazards arising from the substance or mixture

Product may explode if burned in confined space. Individual cartridges may explode. Mass explosion of many cartridges at once is unlikely.

Hazardous combustions products: Metal Compounds, Carbon Monoxide, Carbon Dioxide, Nitrous Oxides, Various complex oxides of metals, Nitrogen.

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Trade name: Tri-Chamber Flameless CN Grenade

(Contd. of page 5)

- · Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information

Evacuate area and fight fire from from the upwind side.

Cool endangered receptacles with water spray.

### 6 Accidental release measures

### · Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Isolate area and prevent access.

Keep people at a distance and stay upwind.

Wear protective equipment. Keep unprotected persons away.

Remove persons from danger area.

Ensure adequate ventilation.

Protect from heat.

Keep away from ignition sources.

· Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Suppress gases/fumes/haze with water spray.

· Methods and material for containment and cleaning up:

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to item 13.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling

Handle with care. Avoid jolting, friction and impact.

Keep away from heat and direct sunlight.

Use only in well ventilated areas.

· Information about protection against explosions and fires:

Prevent impact and friction.

Keep respiratory protective device available.

Emergency cooling must be available in case of nearby fire.

Protect from heat.

Keep ignition sources away - Do not smoke.

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(Contd. of page 6)

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Provide ventilation for receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from flammable substances.

Do not store together with oxidizing and acidic materials.

Store away from water.

Further information about storage conditions:

Protect from heat and direct sunlight.

Store in dry conditions.

Store receptacle in a well ventilated area.

· Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

· Components with limit values that require monitoring at the workplace:				
532-27-4 2-chlo	proacetophenone			
PEL (USA)	Long-term value: 0.3 mg/m³, 0.05 ppm			
REL (USA)	Long-term value: 0.3 mg/m³, 0.05 ppm			
TLV (USA)	Long-term value: 0.32 mg/m³, 0.05 ppm			
EL (Canada)	Long-term value: 0.05 ppm S			
EV (Canada)	Long-term value: 0.32 mg/m³, 0.05 ppm			
LMPE (Mexico)	Long-term value: 0.05 ppm A4			
57-50-1 sucros	57-50-1 sucrose, pure			
PEL (USA)	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction			
REL (USA)	Long-term value: 10* 5** mg/m³ *total dust **respirable fraction			
TLV (USA)	Long-term value: 10 mg/m³			
EL (Canada)	Long-term value: 10* 3** mg/m³ *total dust;**respirable fraction			
EV (Canada)	Long-term value: 10 mg/m³ total dust			
LMPE (Mexico)	Long-term value: 10 mg/m³ A4			
	(Contd. on page 8			

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Trade name: Tri-Chamber Flameless CN Grenade

		(Contd. of pag
598-62-9 mang	anese carbonate	
PEL (USA)	Ceiling limit value: 5 mg/m³ as Mn	
REL (USA)	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³ as Mn	
TLV (USA)	Long-term value: 0.02* 0.1* mg/m³ as Mn; *respirable **inhalable fraction	
EL (Canada)	Long-term value: 0.2 mg/m³ as Mn; R	
LMPE (Mexico)	Long-term value: 0.2 mg/m³ como Mn	
7440-50-8 copp	per	
PEL (USA)	Long-term value: 1* 0.1** mg/m³ as Cu *dusts and mists **fume	
REL (USA)	Long-term value: 1* 0.1** mg/m³ as Cu *dusts and mists **fume	
TLV (USA)	Long-term value: 1* 0.2** mg/m³ *dusts and mists; **fume; as Cu	
EL (Canada)	Long-term value: 1* 0.2** mg/m³ *dusts and mists; **fume, as Cu	
EV (Canada)	Long-term value: 0.2* 1** mg/m³ as copper, *fume;**dust and mists	
LMPE (Mexico)	Long-term value: 0.2* 1** mg/m³ *humo (como Cu);**polvo y niebla (como Cu)	
1309-48-4 mag	nesium oxide	
PEL (USA)	Long-term value: 15* mg/m³ fume; *total particulate	
TLV (USA)	Long-term value: 10* mg/m³ *as inhalable fraction	
EL (Canada)	Short-term value: 10** mg/m³ Long-term value: 10* 3** mg/m³ *inhalable fume;**respirable dust and fume	
EV (Canada)	Long-term value: 10 mg/m³ inhalable	
LMPE (Mexico)	Long-term value: 10* mg/m³ A4, *fracción respirable	
592-87-0 lead d	lithiocyanate	
PEL (USA)	Long-term value: 5 mg/m³ as CN; Skin	
EV (Canada)	Long-term value: 0.05 mg/m³ as Pb, Skin (organic compounds)	
		(Contd. on pag

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Trade name: Tri-Chamber Flameless CN Grenade

	(Contd. of pa
122-39-4 dipl	-
REL (USA)	Long-term value: 10 mg/m³
TLV (USA)	Long-term value: 10 mg/m³
EL (Canada)	Long-term value: 10 mg/m³
EV (Canada)	Long-term value: 10 mg/m³
LMPE (Mexic	o) Long-term value: 10 mg/m³
557.04.0 mag	A4
	gnesium distearate, pure
TLV (USA)	Long-term value: 10 mg/m³
LMPE (Mexic	o) Long-term value: 10 mg/m³ A4
10294-40-3 b	arium chromate
PEL (USA)	Long-term value: 0.005* mg/m³
	Ceiling limit value: 0.1** mg/m³
	*as Cr(VI) **as CrO3; see 29 CFR 1910.1026
REL (USA)	Long-term value: 0.0002 mg/m³
TLV//LICAV	as Cr; See Pocket Guide Apps. A and C
TLV (USA)	Long-term value: 0.01 mg/m³ as Cr
EL (Canada)	Long-term value: 0.01 mg/m³
(•aa.a.)	as Cr; ACGIH A1, IARC 1
LMPE (Mexic	o) Long-term value: 0.01 mg/m³ A1; como Cr
69012-64-2 S	ilica-Amorphous Silica fume
TLV (USA)	TLV withdrawn
EL (Canada)	Long-term value: 4* 1.5** mg/m³
	fume *total; **respirable
EV (Canada)	Long-term value: 2 mg/m³
	respirable
LMPE (Mexic	o) Long-term value: 2 mg/m³
	vith biological limit values: arium chromate
BEI (USA) 25	
	edium: urine
	me: end of shift at end of workweek
	arameter: Total chromium (fume)
140	) ug/l
	0 µg/L edium: urine
	me: increase during shift
	arameter: Total chromium (fume)
Additional in	formation: The lists that were valid during the creation were used as basis.
	(Contd. on pag

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Trade name: Tri-Chamber Flameless CN Grenade

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- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Avoid close or long term contact with the skin.

Avoid contact with the eyes.

Do not inhale dust / smoke / mist.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

- Engineering controls: Provide adequate ventilation.
- · Breathing equipment:



Combined Organic Vapor and Particulate Respirator is recommended for use during all processing activities.

Wear positive pressure NIOSH or European EN149 vapor respirators when deploying product in large quantities.

Respiratory protection required.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Safety glasses

- · Body protection: Protective work clothing
- · Limitation and supervision of exposure into the environment

No further relevant information available.

· Risk management measures

See Section 7 for additional information.

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Organizational measures should be in place for all activities involving this product.

# 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Solid material

Color: Grey

Odor: Characteristic
 Odor threshold: Not determined.
 pH-value: Not applicable.

· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
Undetermined.
Undetermined.

Not applicable.

Flammability (solid, gaseous):
Auto-ignition temperature:
Not determined.

Not determined.

Not determined.

· Auto igniting: Product is not self-igniting.

• Danger of explosion: Extreme risk of explosion by shock, friction, fire or other sources

of ignition.

· Explosion limits:

Lower:
Upper:
Not determined.
Not determined.

Vapor pressure:
Not applicable.

Density:
Relative density
Vapour density
Vapour density
Evaporation rate
Not determined.
Not applicable.

· Solubility in / Miscibility with

Water: Insoluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

**Dynamic:** Not applicable. **Kinematic:** Not applicable.

• Other information No further relevant information available.

(Contd. on page 12)

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Trade name: Tri-Chamber Flameless CN Grenade

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# 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· Possibility of hazardous reactions

Flammable solid.

Contact with acids releases toxic gases.

Toxic fumes may be released if heated above the decomposition point.

Can react violently with oxygen rich (oxidizing) material. Danger of Explosion.

Strong exothermic reaction with acids.

Develops toxic gases / fumes.

· Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

Keep away from heat and direct sunlight.

Cartridge may detonate if case is punctured or severely damaged.

- · Incompatible materials: Contact with acids liberates toxic gas.
- · Hazardous decomposition products:

Carbon monoxide and carbon dioxide

**Hydrocarbons** 

Leadoxide vapor

Bariumoxide vapor

Nitrogen oxides (NOx)

Chlorine compounds

Poisonous gases/vapors

Irritant gases/vapors

## 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· I D/I C50 values	that are relevant	for classification:
--------------------	-------------------	---------------------

### 532-27-4 2-chloroacetophenone

Oral LD50 50 mg/kg (rat)

### 3811-04-9 potassium chlorate

Oral LD50 1870 mg/kg (rat)

### 122-39-4 diphenylamine

Oral LD50 1120 mg/kg (rat)

### 7758-97-6 lead chromate

Oral LD50 12000 mg/kg (mouse)

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- on the eye: Strong irritant with the danger of severe eye injury.

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Trade name: Tri-Chamber Flameless CN Grenade

(Contd. of page 12)

- · Sensitization: May cause sensitisation by inhalation and skin contact.
- · Additional toxicological information: Toxic and/or corrosive effects may be delayed up to 24 hours.
- · Carcinogenic categories
- NTP (National Toxicology Program)

7758-97-6 lead chromate

K

## · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

### · Probable Routes of Exposure

Ingestion.

Inhalation.

Eye contact.

Skin contact.

### · Acute effects (acute toxicity, irritation and corrosivity):

Fatal if inhaled.

May cause sensitisation by inhalation and skin contact.

Causes serious eye damage.

Toxic if swallowed or in contact with skin.

May cause respiratory irritation.

Repeated Dose Toxicity:

Repeated exposures may result in skin and/or respiratory sensitivity.

May cause damage to organs through prolonged or repeated exposure.

- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

# 12 Ecological information

- · Toxicity
- · Aquatic toxicity:

Toxic for aquatic organisms

The product contains materials that are harmful to the environment.

- · Persistence and degradability The product is partially biodegradable. Significant residuals remain.
- · Behavior in environmental systems:
- · Bioaccumulative potential May be accumulated in organism
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

This statement was deduced from the properties of the single components.

The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary.

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Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Other adverse effects No further relevant information available.

## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Hand over to hazardous waste disposers.

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

UN1700

Tear gas candles

1700 TEAR GAS CANDLES

**TEAR GAS CANDLES** 

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

## 14 Transport information

· UN-Number

· DOT, ADR, IMDG, IATA

· UN proper shipping name

· DOT

· ADR

· IMDG, IATA

· Transport hazard class(es)

· DOT



· Class

6.1 Toxic substances · Label 6.1. 4.1

· ADR



· Class 6.1 (TF3) Toxic substances

(Contd. on page 15)

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# **Safety Data Sheet** acc. to OSHA HCS (29 CFR 1910.1200)

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Trade name: Tri-Chamber Flameless CN Grenade

· Label 6.1 + 4.1

· IMDG

· Class 6.1 Toxic substances

· Label 6.1/4.1

·IATA



6.1 Toxic substances · Class

· Label 6.1 (4.1)

· Packing group

· DOT, ADR, IMDG, IATA

· Environmental hazards: Not applicable.

Warning: Toxic substances · Special precautions for user

Danger code (Kemler):

· EMS Number: F-A,S-G

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

· UN "Model Regulation": UN1700, Tear gas candles, 6.1 (4.1), II

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- · SARA
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

532-27-4 2-chloroacetophenone

7439-96-5 manganese, powdered

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65 (California)
- · Chemicals known to cause cancer:

Contains trace quantities of substances known to the State of California to cause cancer.

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Trade name: Tri-Chamber Flameless CN Grenade

	(Contd. of page
10294-40-3 barium chromate	
7758-97-6 lead chromate	
Chemicals known to cause reproductive toxicity for females:	
Present in trace quantities.	
10294-40-3 barium chromate	
7758-97-6 lead chromate	
• Chemicals known to cause reproductive toxicity for males:  Present in trace quantities.	
10294-40-3 barium chromate	
7758-97-6 lead chromate	
· Chemicals known to cause developmental toxicity:	
Present in trace quantities.	
10294-40-3 barium chromate	
7758-97-6 lead chromate	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
7439-96-5 manganese, powdered	
7758-97-6 lead chromate	
IARC (International Agency for Research on Cancer)	
1309-37-1 diiron trioxide / iron (III) oxide	
10294-40-3 barium chromate	
69012-64-2 Silica-Amorphous Silica fume	
TLV (Threshold Limit Value established by ACGIH)	
532-27-4 2-chloroacetophenone	
57-50-1 sucrose, pure	
1309-37-1 diiron trioxide / iron (III) oxide	
1309-48-4 magnesium oxide	
7440-67-7 zirconium powder (pyrophoric)	
7429-90-5 aluminium powder (pyrophoric)	
122-39-4 diphenylamine	
10294-40-3 barium chromate	
· NIOSH-Ca (National Institute for Occupational Safety and Healt	h)
10294-40-3 barium chromate	
7758-97-6 lead chromate	
· State Right to Know Listings	
None of the ingredients is listed.	
· Canadian substance listings:	
· Canadian Domestic Substances List (DSL)	
All ingredients are listed.	

Printing date July 13, 2015 Reviewed on July 13, 2015

Trade name: Tri-Chamber Flameless CN Grenade

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· Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

Canadian Ingredient Disclosure list (limit 1%)

532-27-4 2-chloroacetophenone

7439-96-5 manganese, powdered

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of preparation / last revision July 13, 2015 / -

### · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

**ELINCS: European List of Notified Chemical Substances** 

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Expl. 1.1: Explosives, Division 1.1

Flam. Sol. 1: Flammable solids, Hazard Category 1

Flam. Sol. 2: Flammable solids, Hazard Category 2

Pyr. Sol. 1: Pyorphoric Solids, Hazard Category 1

Water-react. 2: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 2

Ox. Sol. 1: Oxidising Solids, Hazard Category 1

Ox. Sol. 2: Oxidising Solids, Hazard Category 2

Acute Tox. 2: Acute toxicity, Hazard Category 2

Acute Tox. 3: Acute toxicity, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Carc. 1A: Carcinogenicity, Hazard Category 1A

Carc. 1B: Carcinogenicity, Hazard Category 1B Repr. 1A: Reproductive toxicity, Hazard Category 1A

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

#### Sources

SDS Prepared by:

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Printing date July 13, 2015

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Trade name:	Tri-Cham	ber Flameles	ss CN Grenade
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Website: www.chemtelinc.com

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