# according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Printing date August 13, 2015 Revision: August 13, 2015

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
- · Trade name: Instantaneous Blast CS Grenade
- · Article number: 1042 (1012496)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- Application of the substance / the mixture Crowd Control Device
- · Uses advised against Contact manufacturer.
- · 1.3 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



#### **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).

Hazard Statement H412 is not applicable to the OSHA US regulations.



exploding bomb

Expl. 1.4 H204 Fire or projection hazard.



skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



health hazard

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



Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Skin Irrit. 2 H315 Causes skin irritation.

(Cont'd. on page 2)

# according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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(Cont'd. from page 1)

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

#### · Additional information:

There are no other hazards not otherwise classified that have been identified.

0 % of the mixture consists of component(s) of unknown toxicity.

#### · 2.2 Label elements

### · Labelling according to Regulation (EC) No 1272/2008

The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).

The product is classified and labelled according to the CLP regulation.

### · Hazard pictograms







**GHS01 GHS06 GHS08** 

### · Signal word Danger

#### · Hazard-determining components of labelling:

[(2-chlorophenyl)methylene]malononitrile

potassium chlorate

diphenylamine

lead diazide / lead azide

potassium perchlorate

#### Hazard statements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.

H204 Fire or projection hazard.

H302+H312 Harmful if swallowed or in contact with skin.

H331 Toxic if inhaled. H315 Causes skin irritation.

H319 Causes serious eye irritation.

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

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

H412 Harmful to aquatic life with long lasting effects.

### · Precautionary statements

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

No smoking.

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

P284 Wear respiratory protection.
P264 Wash thoroughly after handling.

P280 Wear protective gloves / eve protection / face protection.

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

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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.

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

P362 Take off contaminated clothing.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

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

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

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

regulations.

· Additional information:

Can become highly flammable in use.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- **Explosive Product Notice**

PREVENTION OF ACCIDENTS IN THE USE OF EXPLOSIVES - The prevention of accidents in the use of explosives is a result of careful planning and observance of the best known practices. The explosives user must remember that he is dealing with a powerful force and that various devices and methods have been developed to assist him in directing this force. He should realize that this force, if misdirected, may either kill or injure both him and his fellow workers.

WARNING - All explosives are dangerous and must be carefully handled and used following approved safety procedures either by or under the direction of competent, experienced persons in accordance with all applicable federal, state, and local laws, regulations, or ordinances. If you have any questions or doubts as to how to use any explosive product, DO NOT USE IT before consulting with your supervisor, or the manufacturer, if you do not have a supervisor. If your supervisor has any questions or doubts, he should consult the manufacturer before use.

### **SECTION 3: Composition/information on ingredients**

- · 3.2 Mixtures
- · Description:

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

Mixture of substances listed below with nonhazardous additions.

· Dang	gerous	comp	ponent	:s:
--------	--------	------	--------	-----

CAS: 2698-41-1 EINECS: 220-278-9 [(2-chlorophenyl)methylene]malononitrile

Acute Tox. 3, H301; Acute Tox. 2, H330

🚵 Resp. Sens. 1, H334

Aquatic Acute 1, H400

Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1,

H317; STOT SE 3, H335

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	(Cont'd. from pa
CAS: 9004-70-0 EC number: 603-037-0	Nitrocellulose, colloided, granular  Expl. 1.1, H201
CAS: 3811-04-9 EINECS: 223-289-7 Index number: 017-004-00-3	potassium chlorate  Ox. Sol. 1, H271 Aquatic Chronic 2, H411 Acute Tox. 4, H302; Acute Tox. 4, H332
CAS: 57-50-1 EINECS: 200-334-9	sucrose, pure substance with a Community workplace exposure limit
CAS: 598-62-9 EINECS: 209-942-9	manganese carbonate substance with a Community workplace exposure limit
CAS: 7757-79-1 EINECS: 231-818-8	potassium nitrate  Ox. Sol. 2, H272
CAS: 78-11-5 EINECS: 201-084-3 Index number: 603-035-00-5	pentaerythritol tetranitrate (PETN)  Output  Description:
CAS: 1309-48-4 EINECS: 215-171-9 Index number: 025-199-09-0	magnesium oxide substance with a Community workplace exposure limit
CAS: 1309-37-1 EINECS: 215-168-2	diiron trioxide / iron (III) oxide substance with a Community workplace exposure limit
CAS: 7440-50-8 EINECS: 231-159-6	copper substance with a Community workplace exposure limit
CAS: 7440-32-6 EINECS: 231-142-3	titanium   Pyr. Sol. 1, H250; Self-heat. 1, H251; Water-react. 1, H260
CAS: 13424-46-9 EINECS: 236-542-1 Index number: 082-003-00-7	lead diazide / lead azide  Onst. Expl., H200
CAS: 7440-66-6	zinc metal  Aquatic Acute 1, H400; Aquatic Chronic 1, H410
CAS: 7440-21-3 EINECS: 231-130-8	silicon  Flam. Sol. 2, H228
CAS: 7440-67-7 EINECS: 231-176-9 Index number: 040-001-00-3	zirconium powder (pyrophoric)  Pyr. Sol. 1, H250; Water-react. 1, H260
CAS: 7429-90-5 EINECS: 231-072-3 Index number: 013-001-00-6	aluminium powder (pyrophoric)  Pyr. Sol. 1, H250; Water-react. 2, H261
CAS: 7778-74-7 EINECS: 231-912-9 Index number: 017-008-00-5	potassium perchlorate Ox. Sol. 1, H271 Acute Tox. 4, H302

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	(Cont'd. from page 4)
CAS: 7704-34-9 EINECS: 231-722-6 Index number: 016-094-00-1	sulfur ♦ Skin Irrit. 2, H315
CAS: 592-87-0 EINECS: 209-774-6 Index number: 082-001-00-6	lead dithiocyanate  Carc. 1B, H350; Repr. 1A, H360Df; STOT RE 2, H373  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Acute Tox. 4, H302; Acute Tox. 4, H332
CAS: 122-39-4 EINECS: 204-539-4 Index number: 612-026-00-5	diphenylamine  Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331  STOT RE 2, H373  Aquatic Acute 1, H400; Aquatic Chronic 1, H410
CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure substance with a Community workplace exposure limit
CAS: 10294-40-3 EINECS: 233-660-5 Index number: 056-002-00-7	barium chromate Carc. 1A, H350 Acute Tox. 4, H302; Acute Tox. 4, H332
CAS: 69012-64-2 EINECS: 273-761-1	Silica-Amorphous Silica fume substance with a Community workplace exposure limit
· SVHC	
13424-46-9 lead diazide / lea	ad azide

### · Additional information:

For the wording of the listed Hazard Statements refer to section 16.

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

### Notable Trace Components (≤ 0,1% w/w)

CAS: 7758-97-6	lead chromate
EINECS: 231-846-0	& Carc. 1B, H350; Repr. 1A, H360Df; STOT RE 2, H373
Index number: 082-004-00-2	Aquatic Acute 1, H400; Aquatic Chronic 1, H410

### **SECTION 4: First aid measures**

### · 4.1 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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#### · 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; call for medical help immediately.

### · 4.2 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.

May cause respiratory irritation.

Breathing difficulty

Coughing

Allergic reactions

Disorientation

#### · Hazards

Danger of blast or crush-type injuries.

Danger of pulmonary oedema.

Danger of impaired breathing.

Toxic if inhaled.

Harmful if swallowed or in contact with skin.

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

Contains [(2-chlorophenyl)methylene]malononitrile. May produce an allergic reaction.

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

If necessary oxygen respiration treatment.

Later observation for pneumonia and pulmonary oedema.

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

### **SECTION 5: Firefighting measures**

### · 5.1 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.
- · 5.2 Special hazards arising from the substance or mixture

Fire or projection hazard.

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

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### · 5.3 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.

### **SECTION 6: Accidental release measures**

### · 6.1 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 on the windward side.

Wear protective equipment. Keep unprotected persons away.

Remove persons from danger area.

Ensure adequate ventilation

Protect from heat.

Keep away from ignition sources.

### · 6.2 Environmental precautions:

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

Suppress gases/fumes/haze with water spray.

### · 6.3 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 section 13.

### · 6.4 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.

### **SECTION 7: Handling and storage**

#### · 7.1 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 fire - and explosion protection:

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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- · 7.2 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 oxidising 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.

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

### **SECTION 8: Exposure controls/personal protection**

- · Additional information about design of technical facilities: No further data; see section 7.
- · 8.1 Control parameters

· Ingredients v	with limit values that require monitoring at the workplace:	
2698-41-1 [(2	2-chlorophenyl)methylene]malononitrile	
PEL (USA)	Long-term value: 0,4 mg/m³, 0,05 ppm	
REL (USA)	Ceiling limit: 0,4 mg/m³, 0,05 ppm Skin	
TLV (USA)	Ceiling limit: 0,39 mg/m³, 0,05 ppm Skin	
EL (Canada)	Ceiling limit: 0,05 ppm Skin	
EV (Canada)	Ceiling limit: 0,4 mg/m³, 0,05 ppm Skin	
57-50-1 sucre	ose, 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	
	(Cont'd. on page	

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		(Cont'd. from page
598-62-9 mai	nganese carbonate	
PEL (USA)	Ceiling limit: 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	
1309-48-4 ma	agnesium 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	
1309-37-1 dii	ron trioxide / iron (III) oxide	
PEL (USA)	Long-term value: 10* 15** 5*** mg/m³ *Fume; Rouge: **Total dust, ***respirable	
REL (USA)	Long-term value: 5 mg/m³ Dust & fume, as Fe	
TLV (USA)	Long-term value: 5* mg/m³ *as respirable fraction	
EL (Canada)	Short-term value: 10** mg/m³ Long-term value: 5* 10*** 3**** mg/m³ *dust & fume**fume; Rouge: ***total dust****resp.	
EV (Canada)	Long-term value: 5* 10** mg/m³ *respirable, including Rouge;**total dust	
7440-50-8 co	pper	
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	

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10101 100		(Cont'd. from page
	lead diazide / lead azide	
PEL (USA)	Long-term value: 0,05 mg/m³ as Pb; See 29 CFR 1910,1025	
REL (USA)	Long-term value: 0,05* mg/m³ as Pb;*8-hr TWA; See Pocket Guide App. C	
TLV (USA)	Long-term value: 0,05 mg/m³ as Pb; BEI	
EL (Canada	Long-term value: 0,05 mg/m³ as Pb; IARC 2A, R	
7440-21-3 s	ilicon	
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)	TLV withdrawn	
EL (Canada	Long-term value: 10* 3** mg/m³ *total dust;**respirable fraction	
EV (Canada	) Long-term value: 10 mg/m³ total dust	
7440-67-7 z	irconium powder (pyrophoric)	
PEL (USA)	Long-term value: 5 mg/m³ as Zr	
REL (USA)	Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as Zr	
TLV (USA)	Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as Zr	
EL (Canada	Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as Zr	
EV (Canada	) Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as zirconium	
7429-90-5 a	luminium powder (pyrophoric)	
PEL (USA)	Long-term value: 15*; 15** mg/m³ *Total dust; ** Respirable fraction	
REL (USA)	Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f.	
TLV (USA)	Long-term value: 1* mg/m³ as Al; *as respirable fraction	

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		(Cont'd. from page
EL (Canada	) Long-term value: 1,0 mg/m³ respirable, as Al	(10000000000000000000000000000000000000
EV (Canada	Long-term value: 5 mg/m³ aluminium-containing (as aluminium)	
592-87-0 le	ad dithiocyanate	
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)	
122-39-4 di	phenylamine	
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	
557-04-0 m	agnesium distearate, pure	
TLV (USA)	Long-term value: 10 mg/m³	
10294-40-3	barium chromate	
PEL (USA)	Long-term value: 0,005* mg/m³ Ceiling limit: 0,1** mg/m³ *as Cr(VI) **as CrO3; see 29 CFR 1910,1026	
REL (USA)	Long-term value: 0,0002 mg/m³ 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 as Cr; ACGIH A1, IARC 1	
69012-64-2	Silica-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	
	urther relevant information available. further relevant information available.	
_	with biological limit values:	
13424-46-9	lead diazide / lead azide	
	30 μg/100 ml Medium: blood Time: not critical	
	Parameter: Lead	(Cont'd. on page

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#### 10294-40-3 barium chromate

BEI (USA) 25 µg/L

Medium: urine

Time: end of shift at end of workweek Parameter: Total chromium (fume)

10 µg/L Medium: urine

Time: increase during shift

Parameter: Total chromium (fume)

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Avoid close or long term contact with the skin.

Avoid contact with the eves.

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.

· Respiratory protection:



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.

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· Penetration time of glove material

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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.

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

### **SECTION 9: Physical and chemical properties**

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Solid material

Colour: Grey

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

· Change in condition

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

Flash point:
Flammability (solid, gaseous):
Auto/Self-ignition temperature:
Not determined.
Not determined.
Not determined.

• **Self-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 applicable.

Density:
Relative density
Not determined.
Not determined.
Not determined.
Not determined.
Not determined.
Not applicable.

(Cont'd. on page 14)

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• Evaporation rate Not applicable.

· Solubility in / Miscibility with

water: Insoluble.

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

· Viscosity:

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

• 9.2 Other information No further relevant information available.

### **SECTION 10: Stability and reactivity**

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

No decomposition if used and stored according to specifications.

· 10.3 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 (oxidising) material. Danger of Explosion.

Strong exothermic reaction with acids.

Develops toxic gases/fumes.

· 10.4 Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidising agents.

Keep away from heat and direct sunlight.

Cartridge may detonate if case is punctured or severely damaged.

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

Carbon monoxide and carbon dioxide

Hydrocarbons

Leadoxide vapour

Bariumoxide vapour

Nitrogen oxides (NOx)

Chlorine compounds

Poisonous gases/vapours

Irritant gases/vapours

### **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity

Harmful if swallowed or in contact with skin.

Toxic if inhaled.

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	(Cont'd. from page 14)
· LD/LC50 values relevant for classification:	
2698-41-1 [(2-chlorophenyl)methylene]malononitrile	
Oral LD50 178 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:
- · Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye irritation.

· Respiratory or skin sensitisation

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

May cause an allergic skin reaction.

- · Additional toxicological information: Toxic and/or corrosive effects may be delayed up to 24 hours.
- · Acute effects (acute toxicity, irritation and corrosivity):

Irritating to eyes, respiratory system and skin.

Harmful in contact with skin.

Toxic if swallowed or if inhaled.

May cause sensitisation by inhalation and skin contact.

- · **Sensitisation**: May cause sensitisation by inhalation and skin contact.
- · 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-single exposure

May cause respiratory irritation.

· 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.

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity:

Toxic for aquatic organisms

The product contains materials that are harmful to the environment.

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### 2698-41-1 [(2-chlorophenyl)methylene]malononitrile

EC50 0,2-0,3 mg/kg (Oncorhynchus mykiss) 96 H

- 12.2 Persistence and degradability The product is partially biodegradable. Significant residuals remain.
- 12.3 Bioaccumulative potential May be accumulated in organism
- 12.4 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

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

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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.

- · 12.5 Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · **vPvB:** Not applicable.
- 12.6 Other adverse effects No further relevant information available.

### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed 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.

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

### **SECTION 14: Transport information**

- · 14.1 UN-Number
- · DOT, ADR, IMDG, IATA

UN0301

(Cont'd. on page 17)

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· 14.2 UN proper shipping name

· DOT, IMDG, IATA AMMUNITION TEAR-PRODUCING with burster,

expelling

charge or propelling charge

• ADR 0301 AMMUNITION TEAR-PRODUCING with burster,

expelling

charge or propelling charge

· 14.3 Transport hazard class(es)

· DOT



· Class 1 Explosive substances and articles.

• **Label** 1.4G, 6.1, 8

· ADR



· Class 1 ( ) Explosive substances and articles.

· Label 1.4G+6.1+8

· IMDG



· Class 1.4

· **Label** 1.4G/6.1/8

·IATA



· Class 1.4

**Label** 1.4G (6.1, 8)

· 14.4 Packing group

· DOT, ADR, IMDG, IATA

• 14.5 Environmental hazards: Not applicable.

• 14.6 Special precautions for user Warning: Explosive substances and articles.

Ш

Danger code (Kemler):

• EMS Number: F-B,S-Z

· 14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code Not applicable.

(Cont'd. on page 18)

## according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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· Transport/Additional information:

· ADR

· Limited quantities (LQ)

• Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

Transport categoryTunnel restriction code

· IMDG

· Limited quantities (LQ)

• Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

· UN "Model Regulation": UN0301, AMMUNITION TEAR-PRODUCING with

burster, expelling

charge or propelling charge, (1.4G+6.1+8), II

### **SECTION 15: Regulatory information**

- · 15.1 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 are listed.

· Section 313 (Specific toxic chemical listings):		
598-62-9	manganese carbonate	
7757-79-1	potassium nitrate	

7440-50-8 | copper 13424-46-9 | lead diazide / lead azide

7440-66-6 zinc metal

7100 00 5 1 1 1 1

7429-90-5 aluminium powder (pyrophoric)

### · 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.

13424-46-9	lead diazide / lead azide
592-87-0	lead dithiocyanate
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

(Cont'd. on page 19)

# according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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Trade name: Instantaneous Blast CS Grenade (Cont'd. from page 18) 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. 13424-46-9 lead diazide / lead azide 10294-40-3 barium chromate 7758-97-6 lead chromate · Carcinogenic Categories · EPA (Environmental Protection Agency) 598-62-9 manganese carbonate D 7440-50-8 copper D 13424-46-9 lead diazide / lead azide B2 D, I, II 7440-66-6 zinc metal 7778-74-7 potassium perchlorate NL 10294-40-3 barium chromate A(inh), D(oral), K/L(inh), CBD(oral) · IARC (International Agency for Research on Cancer) 1309-37-1 diiron trioxide / iron (III) oxide 13424-46-9 lead diazide / lead azide 2A 10294-40-3 barium chromate 69012-64-2 Silica-Amorphous Silica fume 3 · TLV (Threshold Limit Value established by ACGIH) 2698-41-1 [(2-chlorophenyl)methylene]malononitrile **A4** 57-50-1 sucrose, pure A4 1309-48-4 magnesium oxide **A4** 1309-37-1 diiron trioxide / iron (III) oxide <u>A4</u> 13424-46-9 lead diazide / lead azide A3 7440-67-7 zirconium powder (pyrophoric) **A4** 7429-90-5 aluminium powder (pyrophoric) A4 122-39-4 diphenylamine A4 10294-40-3 barium chromate A1 · NIOSH-Ca (National Institute for Occupational Safety and Health) 10294-40-3 barium chromate · Canada · Canadian Domestic Substances List (DSL) All ingredients are listed. (Cont'd. on page 20)

# according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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	(Cont'd. from page 19)
· Canadian	Ingredient Disclosure list (limit 0.1%)
598-62-9	manganese carbonate
122-39-4	4 diphenylamine
10294-40-3	B barium chromate
· Canadian	Ingredient Disclosure list (limit 1%)
2698-41-1	[(2-chlorophenyl)methylene]malononitrile
1309-48-4	magnesium oxide
1309-37-1	diiron trioxide / iron (III) oxide
7440-50-8	copper
7429-90-5	aluminium powder (pyrophoric)

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I

None of the ingredients are listed.

- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57 13424-46-9 lead diazide / lead azide
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 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.

#### Relevant phrases

- H200 Unstable explosives.
- H201 Explosive; mass explosion hazard.
- H228 Flammable solid.
- H250 Catches fire spontaneously if exposed to air.
- H251 Self-heating: may catch fire.
- H260 In contact with water releases flammable gases which may ignite spontaneously.
- H261 In contact with water releases flammable gases.
- H271 May cause fire or explosion; strong oxidiser.
- H272 May intensify fire; oxidiser.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eve irritation.
- H330 Fatal if inhaled.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.

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(Cont'd. from page 20) H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H350 May cause cancer. H360Df May damage the unborn child. Suspected of damaging fertility. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. 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 GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Expl. 1.1: Explosives, Division 1.1 Expl. 1.4: Explosives, Division 1.4 Unst. Expl.: Explosives, Unstable explosives Flam. Sol. 2: Flammable solids, Hazard Category 2 Pyr. Sol. 1: Pyorphoric Solids, Hazard Category 1 Self-heat. 1: Self-Heating Substances and Mixtures, Hazard Category 1 Water-react. 1: Substances and Mixtures which, in contact with water, emit flammable gases, 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. 3: Acute toxicity, Hazard Category 3 Acute Tox. 4: Acute toxicity, Hazard Category 4 Acute Tox. 2: Acute toxicity, Hazard Category 2 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 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 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3 Sources SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue

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