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

Printing date December 1, 2015 Revision: December 1, 2015

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

- · 1.1 Product identifier
- · Trade name: Large Style Maximum Smoke HC Grenade
- · Article number: 1073 (1012628)
- 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: Explosive product.
- · 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

- · Further information obtainable from: Customer Care Department
- · 1.4 Emergency telephone number:

ChemTel Inc.

+1 (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

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H400, H410.



exploding bomb

Expl. 1.4 H204 Fire or projection hazard.



#### health hazard

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



#### environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

- · Additional information: 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 classified and labelled according to the CLP regulation.

(Cont'd. on page 2)

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

Printing date December 1, 2015 Revision: December 1, 2015

Trade name: Large Style Maximum Smoke HC Grenade

(Cont'd. from page 1)

#### · Hazard pictograms



This pictogram only applicable for EU regulations. Not for use in the United States (OSHA GHS).







**GHS01 GHS08 GHS09** 

- · Signal word Warning
- · Hazard-determining components of labelling:

hexachloroethane

#### · Hazard statements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H410.

H204 Fire or projection hazard.

H351 Suspected of causing cancer.

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

H410 Very toxic to aquatic life with long lasting effects.

#### · Precautionary statements

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.

P250 Do not subject to grinding/shock/friction.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P240 Ground/bond container and receiving equipment.

P373 DO NOT fight fire when fire reaches explosives.

P370+P380 In case of fire: Evacuate area.

P372 Explosion risk in case of fire.

P314 Get medical advice/attention if you feel unwell.

P401 Store in accordance with local/regional/national/international regulations.

P405 Store locked up.

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

#### · Additional information:

Can become highly flammable in use.

· NFPA ratings (scale 0 - 4)



Health = 0 Fire = 0 Reactivity = 3

(Cont'd. on page 3)

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

Printing date December 1, 2015 Revision: December 1, 2015

Trade name: Large Style Maximum Smoke HC Grenade

(Cont'd. from page 2)

· HMIS-ratings (scale 0 - 4)



- · 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:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7	zinc oxide	_ 25-50%
CAS: 67-72-1 EINECS: 200-666-4	hexachloroethane & Carc. 2, H351; STOT RE 2, H373	25-50%
CAS: 7429-90-5 EINECS: 231-072-3 Index number: 013-002-00-1	aluminium powder (stabilised)  Tlam. Sol. 1, H228; Water-react. 2, H261	2,5-10%
CAS: 7757-79-1 EINECS: 231-818-8	potassium nitrate  Ox. Sol. 2, H272	_ ≤ 2,5%
CAS: 7440-21-3 EINECS: 231-130-8	silicon  Flam. Sol. 2, H228	_ ≤ 2,5%
CAS: 9004-70-0 EC number: 603-037-0	Nitrocellulose, colloided, granular  Expl. 1.1, H201	_ ≤ 2,5%
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	_ ≤ 2,5%
	(Con	t'd. on page 4)

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

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#### · Additional information:

For the listed ingredient(s), the identity and exact percentages are being withheld as a trade secret. For the wording of the listed Hazard Statements refer to section 16.

Notable Trace Components (≤ 0,1% w/w)		
CAS: 592-87-0 EINECS: 209-774-6 Index number: 082-001-00-6	lead dithiocyanate  Repr. 1A, H360Df; STOT RE 2, H373 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302; Acute Tox. 4, H332	
CAS: 7758-97-6 EINECS: 231-846-0 Index number: 082-004-00-2	lead chromate Carc. 1B, H350; Repr. 1A, H360Df; STOT RE 2, H373 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 10294-40-3 EINECS: 233-660-5 Index number: 056-002-00-7	barium chromate  ↑ Ācute Tox. 4, H302; Acute Tox. 4, H332	

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

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately rinse with water.

If skin irritation is experienced, consult a doctor.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Unlikely route of exposure.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Blast injury if mishandled.

Coughing

Breathing difficulty

· Hazards

Danger of blast or crush-type injuries.

Danger of impaired breathing.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed

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

If medical advice is needed, have product container or label at hand.

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Trade name: Large Style Maximum Smoke HC Grenade

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

#### · 5.1 Extinguishing media

#### Suitable extinguishing agents:

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

During heating or in case of fire poisonous gases are produced.

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

- · 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Eliminate all ignition sources if safe to do so.

Cool endangered receptacles with water spray.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Flammability Classification: (defined by 29 CFR 1910.1200) Explosive. Can explode under fire conditions. Individual devices will randomly explode. Will not mass explode if multiple devices are involved. Burning material may produce toxic and irritating vapors. In unusual cases, shrapnel may be thrown from exploding devices under containment. See 2008 Emergency response Guidebook for further information.

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

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

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTEL AT 1-800-255-3924. Spills of this material should be handled carefully. Do not subject materials to mechanical shock or extreme heat. A spill of this material will normally not require emergency response team capabilities.

Wear protective equipment. Keep unprotected persons away.

Remove persons from danger area.

Ensure adequate ventilation

Protect from heat.

Isolate area and prevent access.

- **6.2 Environmental precautions:** No special measures required.
- · 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose contaminated material as waste according to section 13.

Send for recovery or disposal in suitable receptacles.

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.

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

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Trade name: Large Style Maximum Smoke HC Grenade

(Cont'd. from page 5)

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

7.1 Precautions for safe handling

Use only outdoors or in a well-ventilated area.

Handle with care. Avoid jolting, friction and impact.

Information about fire - and explosion protection:

Protect from heat.

Emergency cooling must be available in case of nearby fire.

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

- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- · 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:
1314-13-2 zir	nc oxide
PEL (USA)	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction and fume
REL (USA)	Short-term value: 10** mg/m³ Long-term value: 5* 5** mg/m³ Ceiling limit: 15* mg/m³ *dust only **fume
TLV (USA)	Short-term value: 10* mg/m³ Long-term value: 2* mg/m³ *as respirable fraction
EL (Canada)	Short-term value: 10 mg/m³ Long-term value: 2 mg/m³
EV (Canada)	Short-term value: 10 mg/m³ Long-term value: 2 mg/m³ respirable
67-72-1 hexa	chloroethane
PEL (USA)	Long-term value: 10 mg/m³, 1 ppm Skin
·	(Cont'd. on page

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

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Trade name: Large Style Maximum Smoke HC Grenade

		(Cont'd. from pag
REL (USA)	Long-term value: 10 mg/m³, 1 ppm Skin; See Pocket Guide Apps. A and C	,
TLV (USA)	Long-term value: 9,7 mg/m³, 1 ppm Skin	
EL (Canada)	Long-term value: 1 ppm Skin; IARC 2B	
EV (Canada)	Long-term value: 1 ppm	
7429-90-5 alu	ıminium powder (stabilised)	
PEL (USA)	Long-term value: 15*; 5** 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	
EL (Canada)	Long-term value: 1,0 mg/m³ respirable, as Al	
EV (Canada)	Long-term value: 5 mg/m³ aluminium-containing (as aluminium)	
7440-21-3 sil	icon	
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	
7429-90-5 alu	ıminium powder (pyrophoric)	
PEL (USA)	Long-term value: 15*; 5** 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	
EL (Canada)	Long-term value: 1,0 mg/m³ respirable, as Al	
EV (Canada)	Long-term value: 5 mg/m³ aluminium-containing (as aluminium)	

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

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Trade name: Large Style Maximum Smoke HC Grenade

(Cont'd. from page 7)

- · 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.

Wash hands before breaks and at the end of work.

· Respiratory protection:

Suitable respiratory protective device recommended.

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

Protection of hands:

Wear gloves for the protection against mechanical hazards according to NIOSH or EN 388.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 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.

Eve 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.

No further relevant information available.

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

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

· Appearance:

**Form:** Solid metal container containing solid contents.

**Colour:** According to product specification

· Odour: Odourless

· Odour threshold: Not determined.

(Cont'd. on page 9)

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

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Trade name: Large Style Maximum Smoke HC Grenade

		(Cont'd. from pag
. nll volue:	Not applicable	(Cont d. Horri pag
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	Not determined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not determined.	
Auto/Self-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Self-igniting:	Product is not self-igniting.	
Danger of explosion:	Heating may cause an explosion.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not applicable.	
Density:	Not determined.	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
water:	Insoluble.	
Partition coefficient (n-octanol/wat	ter): 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

Fire or projection hazard.

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

Reacts with strong acids and alkali.

Reacts violently with oxidising agents.

- 10.4 Conditions to avoid Sources of ignition, open flame, incompatible materials.
- · 10.5 Incompatible materials: Oxidizers

(Cont'd. on page 10)

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

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· 10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide Nitrogen oxides Sulphur oxides (SOx)

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

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

1314-13-2 zinc oxide

Oral LD50 > 5000 mg/kg (rat)

- Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Additional toxicological information:

Normal handling of the undeployed product poses little or no health hazards, One should avoid inhalation by wearing appropriate respiratory protection when exposed to the chemical ingredients of the product above listed TLV's or when exposed to the post ignition by-products. This product is a cansister which contains the various components completely sealed within. Therefore, under normal handling of this product, no exposure to any harmful materials will occur. When the product is used, particles may be generated which may be irritating to the eyes and the respiratory tract.

Toxic and/or corrosive effects may be delayed up to 24 hours.

- · Acute effects (acute toxicity, irritation and corrosivity): Danger of blast or crush-type injuries.
- · Repeated dose toxicity: Possible risk of irreversible effects.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity

Suspected of causing cancer.

- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

· Aspiration hazard Based on available data, the classification criteria are not met.

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

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential May be accumulated in organism
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish

(Cont'd. on page 11)

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

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Trade name: Large Style Maximum Smoke HC Grenade

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#### · Additional ecological information:

#### · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

Harmful to aquatic organisms

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

- · 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. 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 official regulations.

· 14.1 UN-Number	
DOT, ADR, IMDG, IATA	UN0303
· 14.2 UN proper shipping name	
DOT	AMMUNITION, SMOKE with or without burste expelling charge or propelling charge
ADR	0303 AMMUNITION, SMOKE with or without burstee expelling charge or propelling charge, 0303
·IMDG	AMMUNITION, SMOKE with or without burste expelling charge or propelling charge, 0303, MARIN POLLUTANT
·IATA	AMMUNITION, SMOKE with or without burste expelling charge or propelling charge,

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

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Trade name: Large Style Maximum Smoke HC Grenade

WITHOUT BURSTER, EXPELLING CHARGE OF		(Cont'd. from page 11
Class Label 1.4G  ADR, IMDG  Class 1.4 Label 1.4G  14.4 Packing group DOT, IMDG, IATA Not Regulated  14.5 Environmental hazards: Marine pollutant: Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)  Symbol (fish and tree)  14.6 Special marking (ADR): Symbol (fish and tree)  Symbol (fish and tree)  14.7 Special precautions for user EMS Number: F-B,S-X Segregation groups Chlorates  14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.  Transport/Additional information:  IMDG Limited quantities (LQ) Excepted quantities (EQ)  Code: E0 Not permitted as Excepted Quantity  UN "Model Regulation": UN 0303 AMMUNITION, SMOKE WITH OF WITHOUT BURSTER, EXPELLING CHARGE OF PROPELLING CHARGE, 0303, 1.46	· 14.3 Transport hazard class(es)	
Label 1.4G  ADR, IMDG  Class 1.4 Label 1.4G  - Class 1.4 Label 1.4G  - 14.4 Packing group DOT, IMDG, IATA Not Regulated  - 14.5 Environmental hazards: - Marine pollutant: - Special marking (ADR): - Special marking (ADR): - Special precautions for user - EMS Number: - Segregation groups - Chlorates  - 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code - Transport/Additional information: - IMDG - Limited quantities (LQ) - Excepted quantities (EQ) - Code: E0 Not permitted as Excepted Quantity  - UN "Model Regulation": - UN 0303 AMMUNITION, SMOKE WITH OF WITHOUT BURSTER, EXPELLING CHARGE OF PROPELLING CHARGE OF PROPELLING CHARGE OF PROPELLING CHARGE OF PROPELLING CHARGE, 0303, 1.4G	· DOT, IATA	
Label 1.4G  ADR, IMDG  Class 1.4 Label 1.4G  - Class 1.4 Label 1.4G  - 14.4 Packing group DOT, IMDG, IATA Not Regulated  - 14.5 Environmental hazards: - Marine pollutant: - Special marking (ADR): - Special marking (ADR): - Special precautions for user - EMS Number: - Segregation groups - Chlorates  - 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code - Transport/Additional information: - IMDG - Limited quantities (LQ) - Excepted quantities (EQ) - Code: E0 Not permitted as Excepted Quantity  - UN "Model Regulation": - UN 0303 AMMUNITION, SMOKE WITH OF WITHOUT BURSTER, EXPELLING CHARGE OF PROPELLING CHARGE OF PROPELLING CHARGE OF PROPELLING CHARGE OF PROPELLING CHARGE, 0303, 1.4G	1.4	
ADR, IMDG  Class Class Label 1.4 1.4G  14.4 Packing group DOT, IMDG, IATA Not Regulated  14.5 Environmental hazards: Marine pollutant: Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)  14.6 Special marking (ADR): Symbol (fish and tree)  14.6 Special precautions for user EMS Number: F-B,S-X Chlorates  14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.  Transport/Additional information:  IMDG Limited quantities (LQ) Excepted quantities (EQ)  Ocde: E0 Not permitted as Excepted Quantity  UN "Model Regulation": UN 0303 AMMUNITION, SMOKE WITH OF WITHOUT BURSTER, EXPELLING CHARGE OF PROPELLING CHARGE, 0303, 1.46		
Class Label 1.4 1.4G  14.4 Packing group DOT, IMDG, IATA Not Regulated  14.5 Environmental hazards: Marine pollutant: Symbol (fish and tree) Special marking (ADR): Special marking (ADR): Not applicable. F-B,S-X Segregation groups Chlorates  14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Transport/Additional information:  IMDG Limited quantities (LQ) Excepted quantities (EQ)  UN "Model Regulation": UN 0303 AMMUNITION, SMOKE WITH OF WITHOUT BURSTER, EXPELLING CHARGE OF PROPELLING CHARGE OF PROPELLING CHARGE, 0303, 1.46	· Label	1.4G 
Label 1.4G  14.4 Packing group DOT, IMDG, IATA Not Regulated  14.5 Environmental hazards: Marine pollutant: No Symbol (fish and tree) Special marking (ADR): Symbol (fish and tree)  14.6 Special precautions for user EMS Number: F-B,S-X Segregation groups Chlorates  14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Transport/Additional information:  IMDG Limited quantities (LQ) Excepted quantities (EQ) Not permitted as Excepted Quantity  UN "Model Regulation": UN 0303 AMMUNITION, SMOKE WITH OF WITHOUT BURSTER, EXPELLING CHARGE OF PROPELLING CHARGE, 0303, 1.4G	· ADR, IMDG	
Label 1.4G  14.4 Packing group DOT, IMDG, IATA Not Regulated  14.5 Environmental hazards: Marine pollutant: No Symbol (fish and tree) Special marking (ADR): Symbol (fish and tree)  14.6 Special precautions for user EMS Number: F-B,S-X Segregation groups Chlorates  14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Transport/Additional information:  IMDG Limited quantities (LQ) Excepted quantities (EQ) Not permitted as Excepted Quantity  UN "Model Regulation": UN 0303 AMMUNITION, SMOKE WITH OF WITHOUT BURSTER, EXPELLING CHARGE OF PROPELLING CHARGE, 0303, 1.4G	1.4 G	
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* 14.6 Special precautions for user  * EMS Number:  * Segregation groups  * 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code  * Transport/Additional information:  * IMDG  * Limited quantities (LQ)  * Excepted quantities (EQ)  * UN "Model Regulation":  * UN 0303 AMMUNITION, SMOKE WITH OF WITHOUT BURSTER, EXPELLING CHARGE OF PROPELLING CHARGE, 0303, 1.4G	· Special marking (ADR):	
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Marpol and the IBC Code  Not applicable.  Transport/Additional information:  IMDG Limited quantities (LQ) Code: E0 Not permitted as Excepted Quantity  UN "Model Regulation":  UN 0303 AMMUNITION, SMOKE WITH OF WITHOUT BURSTER, EXPELLING CHARGE OF PROPELLING CHARGE, 0303, 1.4G	· 14.7 Transport in bulk according to Anne	ex II of
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)  · UN "Model Regulation":  UN 0303 AMMUNITION, SMOKE WITH OF WITHOUT BURSTER, EXPELLING CHARGE OF PROPELLING CHARGE, 0303, 1.4G		
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Not permitted as Excepted Quantity  UN "Model Regulation":  UN 0303 AMMUNITION, SMOKE WITH OF WITHOUT BURSTER, EXPELLING CHARGE OF PROPELLING CHARGE, 0303, 1.4G	Limited quantities (LQ)	•
**UN "Model Regulation":  UN 0303 AMMUNITION, SMOKE WITH OF WITHOUT BURSTER, EXPELLING CHARGE OF PROPELLING CHARGE, 0303, 1.4G	Excepted quantities (EQ)	
WITHOUT BURSTER, EXPELLING CHARGE OF PROPELLING CHARGE, 0303, 1.4G		Not permitted as Excepted Quantity
	· UN "Model Regulation":	UN 0303 AMMUNITION, SMOKE WITH OF WITHOUT BURSTER, EXPELLING CHARGE OF PROPELLING CHARGE, 0303, 1.4G ENVIRONMENTALLY HAZARDOUS

(Cont'd. on page 13)

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

Printing date December 1, 2015 Revision: December 1, 2015

Trade name: Large Style Maximum Smoke HC Grenade

(Cont'd. from page 12)

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):	
1314-13-2 zinc oxide	
67-72-1 hexachloroethane	
7429-90-5 aluminium powder (stabilised)	
7757-79-1 potassium nitrate	
TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
Proposition 65 (California):	
Chemicals known to cause cancer: Present in trace quantities.	
67-72-1 hexachloroethane	
592-87-0 lead dithiocyanate	
10294-40-3 barium chromate	
7758-97-6 lead chromate	
Chemicals known to cause reproductive toxicity for females:	
10294-40-3 barium chromate	
7758-97-6 lead chromate	
Chemicals known to cause reproductive toxicity for males:	
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)	
1314-13-2 zinc oxide	D, I,
67-72-1 hexachloroethane	L
IARC (International Agency for Research on Cancer)	<del>_</del>
67-72-1 hexachloroethane	2
NIOSH-Ca (National Institute for Occupational Safety and Health)	

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

Printing date December 1, 2015 Revision: December 1, 2015

Trade name: Large Style Maximum Smoke HC Grenade

(Cont'd. from page 13)

· Canada

· Canadian Domestic Substances List (DSL)

All ingredients are listed.

· Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients are listed.

· Canadian Ingredient Disclosure list (limit 1%)

1314-13-2 zinc oxide

67-72-1 hexachloroethane

7429-90-5 aluminium powder (stabilised)

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

None of the ingredients are listed.

- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients are listed.

• 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

- H201 Explosive; mass explosion hazard.
- H228 Flammable solid.
- H250 Catches fire spontaneously if exposed to air.
- H261 In contact with water releases flammable gases.
- H272 May intensify fire; oxidiser.
- H351 Suspected of causing cancer.
- 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.

#### · 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

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)

DNEL: Derived No-Effect Level (REACH)

(Cont'd. on page 15)

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

Printing date December 1, 2015 Revision: December 1, 2015

#### Trade name: Large Style Maximum Smoke HC Grenade

(Cont'd. from page 14)

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 NIOSH: National Institute for Occupational Safety

Expl. 1.1: Explosives, Division 1.1

Expl. 1.4: Explosives, Division 1.4

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. 2: Oxidising Solids, Hazard Category 2

Carc. 2: Carcinogenicity, Hazard Category 2

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

#### Sources

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com