



| <b>SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION</b>  |               |                       |   |   |  |
|--|---------------|-----------------------|---|---|--|
| <b>PRODUCT NAME:</b> Tri-Chamber Flameless Grenade   |               |                       |   |   |  |
| <b>PRODUCT NUMBER(S):</b> 1032   |               |                       |   | <b>DATE:</b> July 31, 2008  |  |
| <b>TRADE NAME:</b> Tri-Chamber Flameless Grenade<br><b>GENERAL USE:</b> Crowd Control<br><b>CHEMICAL FAMILY:</b> CS gas Grenade<br><b>PRODUCT DESCRIPTION:</b><br>Greande - contents are Cream color - irritating.   |               |                       | <br><b>DEFENSE TECHNOLOGY</b> |   |  |
| <b>MANUFACTURED FOR:</b><br><b>Safariland LLC</b>  |               |                       | <b>DATE PREPARED:</b> July 31, 2008<br><b>SUPERSEDES:</b> November 1, 2006                                      |   |  |
| <b>ADDRESS (NUMBER, STREET, P.O. BOX)</b><br>13386 International Parkway   |               |                       | <b>TELEPHONE NUMBER FOR INFORMATION / Customer Service</b><br>904-741-5400                                      |   |  |
| <b>(CITY, STATE AND ZIP CODE)</b><br>Jacksonville, FL 32218  |               | <b>COUNTRY</b><br>USA |   | <b>CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER</b><br> <b>1-800-255-3924</b> <b>01-813-248-0585</b><br>North America Toll Free    International |  |
| <b>SECTION 2 - HAZARDOUS INGREDIENTS</b>   |               |                       |   |   |  |
| Hazardous Components   | % (by Weight) | CAS #                 | EINECS #  | Hazard Symbol   | RISK PHRASES<br>(Full Text Section 15) |
| Potassium Chlorate   | NR            | 3811-04-9             | 231-104-6   | (+O)(+N)<br>(+Xn)   | R9, R20/22, R51/53                     |
| Sugar  | NR            | 57-50-1               | 200-334-9   | None  | None                                   |
| Magnesium Carbonate  | NR            | 546-93-0              | 208-915-9   | None  | None                                   |
| Nitrocellulose   | NR            | 9004-70-0             | NR  | (+E)(+F)  | R1, R2, R5,R11                         |
| o-Chlorobenzylindenemalononitrile  | NR            | 2698-41-1             | 220-278-9   | None  | None                                   |
| <b>Notes:</b> Hazard symbols and risk phrases based on maximum listed concentration of each hazardous ingredient.  |               |                       |   |   |  |
| <b>SECTION 3 - HAZARDS IDENTIFICATION</b>  |               |                       |   |   |  |
| <b>EMERGENCY OVERVIEW</b><br>Explosive mixture can cause eye, hearing and bodily injury if used improperly. Fumes are irritating and may be considered toxic.  |               |                       |   |   |  |
| <b>POTENTIAL HEALTH EFFECTS</b>  |               |                       |   |   |  |
| <b>INHALATION:</b><br>Detonated device emits irritant vapours.   |               |                       |   |   |  |
| <b>SKIN:</b><br>Possible skin irritation - if internal contents of device come in contact with the skin or if vapors from detonated device contact skin.   |               |                       |   |   |  |
| <b>EYES:</b><br>Eye irritant-if contents of device come in contact with eyes, either pre-detonation or post-detonation..   |               |                       |   |   |  |
| <b>INGESTION:</b><br>Toxic substance. Product will cause irritation to gastro-intestinal tract.  |               |                       |   |   |  |
| <b>CARCINOGENICITY:</b><br>NTP? <b>No</b> IARC MONOGRAPHS? <b>No</b> OSHA REGULATED? <b>No</b><br>CALIFORNIA, Prop.65? <b>No</b>   |               |                       |   |   |  |
| <b>SECTION 4 - FIRST AID MEASURES</b>  |               |                       |   |   |  |
| <b>INHALATION:</b><br>Move victim to fresh air and seek medical attention if symptoms of coughing or wheezing are persistent.  |               |                       |   |   |  |
| <b>EYES:</b><br>Corneal abrasions are possible. In case of contact with eyes - clean with a cotton swab. Then flush for at least 15 minutes with clean water, lifting eyelids occasionally. Get medical help if symptoms persist.  |               |                       |   |   |  |
| <b>SKIN:</b><br>Possible irritation. For skin contact, wash with soap and water. Seek medical attention if irritation persists.  |               |                       |   |   |  |
| <b>INGESTION:</b><br>Give plenty of water to drink and call a physician immediately.   |               |                       |   |   |  |
| <b>SECTION 5 - FIRE FIGHTING MEASURES</b>  |               |                       |   |   |  |
| <b>GENERAL HAZARDS:</b><br>Product may explode under elevated temperatures, giving off an irritating and toxic gas.  |               |                       |   |   |  |
| <b>EXTINGUISHING MEDIA:</b><br>Water can be used to cool canisters and to lower the presence of vapors,if this can be done safely. For large fires, It may be preferable to evacuate personnel and allow the fire to burn itself out.  |               |                       |   |   |  |
| <b>FIRE FIGHTING PROCEDURES:</b><br>Firefighters should wear NIOSH/MSA or European EN149 approved self-contained breathing apparatus and other necessary protective clothing.  |               |                       |   |   |  |
| <b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b><br>Explosive materials plus oxidizers. Mixture can explode with considerable force, ejecting irritating and potentially toxic fumes.Evacuate area of all unnecessary personnel. Product may burn despite the application of fire-retardent materials. |               |                       |   |   |  |
| <b>HAZARDOUS COMBUSTION PRODUCTS:</b><br>Halogenated fumes, Cabron oxides, magnesium oxide fumes, samll amounts of nitrogen and sulfur oxides.   |               |                       |   |   |  |



# MATERIAL SAFETY DATA SHEET

**PRODUCT NAME:** Tri-Chamber Flameless Grenade  
**PRODUCT NUMBER(S):** 1032 **DATE:** July 31, 2008

### SECTION 11 - TOXICOLOGICAL INFORMATION

| Hazardous Components              | CAS #<br>EINECS # | LD50 of Ingredient<br>(Specify Species and Route) | LC50 of Ingredient<br>(Specify Species)                              |
|-----------------------------------|-------------------|---|--|
| Potassium Chlorate                | 3811-04-9         | Oral, Rat: 1870 mg/kg                             | NE   |
|                                   | 231-104-6         |   |  |
| Sugar                             | 57-50-1           | Oral, Rat: 29700 mg/kg                            | NE   |
|                                   | 200-334-9         |   |  |
| Magnesium Carbonate               | 546-93-0          | Oral, Rat: 8000 mg/kg                             | lowest published toxic concentration: 76 mg/m <sup>3</sup> /4H       |
|                                   | 208-915-9         |   |  |
| Nitrocellulose                    | 9004-70-0         | Oral, Rat: >5000 mg/kg                            | NE   |
|                                   | NR                |   |  |
| o-Chlorobenzylidene malononitrile | 2698-41-1         | Oral, mouse: 282 mg/kg.<br>Oral, Rat: 178 mg/kg . | inhalation mouse LC50=2,753 mg/m <sup>3</sup> /20 minute inhalation. |
|                                   | 220-278-9         |   |  |
|                                   |                   |   |  |

### SECTION 12 - ECOLOGICAL INFORMATION

Do not discard into waterways or streams. Product is considered harmful to the environment.

### SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

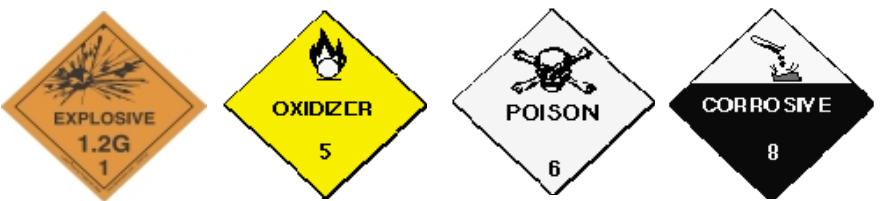
**Product should be treated as hazardous. Dispose in accordance with local, state, and federal regulations involving explosive products. DO NOT PLACE IN ORDINARY TRASH RECEPTACLES. It is suggested that an explosion-proof waste container be used.**

### SECTION 14 - TRANSPORT INFORMATION

**PROPER SHIPPING NAME:** Ammunition, tear-producing, Explosive Class 1.2G, UN 0018

|   |   |
|---|---|
| <b>DOT HAZARD CLASS / Pack Group:</b> Explosives, 1.2G / II | <b>IATA HAZARD CLASS / Pack Group:</b> FORBIDDEN                  |
| <b>REFERENCE:</b> 49CFR                                     | <b>IMDG HAZARD CLASS:</b> Explosives 1.2G                         |
| <b>UN / NA IDENTIFICATION NUMBER:</b> 0018                  | <b>RID/ADR Dangerous Goods Code:</b> Explosives 1.2G (Sub 6, 8.1) |
| <b>LABEL:</b> Explosives 1.2G                               | <b>UN TDG Class / Pack Group:</b> II                              |

**HAZARD SYMBOLS:**

|  |   |
|--|---|
|  | Hazard Identification Number (HIN):<br><b>546</b> |
|--|---|

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

# MATERIAL SAFETY DATA SHEET







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## SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act): **Yes**  
 SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):  
     Acute Health: **Yes** Chronic Health: **Yes**  
     Fire: **Yes** Sudden Release of Pressure: **Yes**  
     Reactive: **Yes**

**313 REPORTABLE INGREDIENTS:**  
 CERCLA (USA - Comprehensive Response Compensation and Liability Act): **No**  
 California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: **No**  
 CCPR (Canadian Controlled Products Regulations): **Referenced**  
 CIDL (Canadian Ingredient Disclosure List): **Referenced**  
 CDSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): **Referenced**  
 EINECS (European Inventory of Existing Commercial Chemical Substances): **Referenced**

WGK Water Quality Index: **3**

| RISK PHRASES:   | SYMBOL(S) REQUIRED FOR EU LABEL   | SAFETY PHRASES:   |
|---|---|---|
| <p><b>R1</b> : Explosive when dry.<br/> <b>R2</b> : Risk of explosion by shock, friction, fire, or other sources of ignition.<br/> <b>R5</b> : Heating may cause an explosion.<br/> <b>R9</b> : Explosive when mixed with combustible material.<br/> <b>R11</b> : Highly flammable.<br/> <b>R20/22</b> : Harmful by inhalation and if swallowed.<br/> <b>R51/53</b> : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> | <p>(+EXPLOSIVE)      (+OXIDIZER)</p>  <br><p>(+FLAMMABLE)      (+TOXIC)</p>  <br><p>(+HARMFUL TO THE ENVIRONMENT)</p> <br><p>(+HARMFUL)</p>  | <p><b>S2</b> : Keep out of the reach of children.<br/> <b>S13</b> : Keep away from food, drink and animal feedingstuffs.<br/> <b>S16</b> : Keep away from sources of ignition - No smoking.<br/> <b>S27</b> : Take off immediately all contaminated clothing.<br/> <b>S61</b> : Avoid release to the environment. Refer to special instructions/Safety data sheets.</p> |

## SECTION 16 - OTHER INFORMATION

| Legend              |                                |                       |                    |
|---------------------|--------------------------------|-----------------------|--------------------|
| N/A=Not Applicable  | N/D=Not Determined             | N/E = Not Established | N/R = Not Reported |
| HMIS HAZARD RATINGS | HEALTH:                        | <b>2</b>              | 0 = INSIGNIFICANT  |
|                     | FLAMMABILITY:                  | <b>4</b>              | 1 = SLIGHT         |
|                     | PHYSICAL HAZARD:               | <b>2</b>              | 2 = MODERATE       |
|                     | PERSONAL PROTECTIVE EQUIPMENT: | <b>K</b>              | 3 = HIGH           |
|                     |                                |                       | 4 = EXTREME        |

REVISION SUMMARY:  
 Revised to GHS/EU protocols 7/29/2008 supersedes 11/01/2006 LB

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.