



SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION					
PRODUCT NAME: 37mm Flite-Rite HD Barricade Round CS PRODUCT NUMBER(S): 1152 DATE: August 08, 2008					
TRADE NAME: 37mm Flite-Rite HD Barricade Round CS GENERAL USE: Crowd Control CHEMICAL FAMILY: Pyrotechnic CS Agent PRODUCT DESCRIPTION: Cream color - irritating.			 DEFENSE TECHNOLOGY		
MANUFACTURED FOR: Safariland LLC			DATE PREPARED: August 8, 2008 SUPERSEDES: November 1, 2006		
ADDRESS (NUMBER, STREET, P.O. BOX) 13386 International Parkway (CITY, STATE AND ZIP CODE) Jacksonville, FL 32218			TELEPHONE NUMBER FOR INFORMATION / Customer Service 904-741-5400		
COUNTRY USA			CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER  1-800-255-3924 01-813-248-0585 North America Toll Free International		
SECTION 2 - HAZARDOUS INGREDIENTS					
Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Potassium Chlorate	NR	3811-04-9	231-104-6	(+F)(+N) (+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-Chlorobenzylidenemalononitrile	NR	2698-41-1	220-278-9	None	None
Notes: Hazard symbols and risk phrases based on maximum listed concentration of each hazardous ingredient.					
SECTION 3 - HAZARDS IDENTIFICATION					
EMERGENCY OVERVIEW Explosive mixture can cause eye, hearing and bodily injury if used improperly. Fumes are irritating and may be considered toxic.					
POTENTIAL HEALTH EFFECTS INHALATION: Detonated device emits irritant and potentially toxic vapours.					
SKIN: Possible skin irritation - if internal contents of device come in contact with the skin or if vapors from detonated device contact skin.					
EYES: Eye irritant-if contents of device come in contact with eyes, either pre-detonation or post-detonation.Serious injury may occur.					
INGESTION: Toxic substance. Product will cause irritation to gastro-intestinal tract, and result in vomiting, nausea, and diarrhea.					
CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No CALIFORNIA, Prop.65? No					
SECTION 4 - FIRST AID MEASURES					
INHALATION: Move victim to fresh air and seek medical attention if symptoms of coughing or wheezing are perisitent.					
EYES: 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.					
SKIN: Possible irritation. For skin contact, wash with soap and water. Seek medical attention if irritation persists.					
INGESTION: Give plenty of water to drink and call a physician immediately.					
SECTION 5 - FIRE FIGHTING MEASURES					
GENERAL HAZARDS: Product may explode under elevated temperatures, giving off an irritating and toxic gas.					
EXTINGUISHING MEDIA: 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.					
FIRE FIGHTING PROCEDURES: Firefighters should wear NIOSH/MSA or European EN149 approved self-contained breathing apparatus and other necessary protective clothing.					
UNUSUAL FIRE AND EXPLOSION HAZARDS: 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.					
HAZARDOUS COMBUSTION PRODUCTS: Halogenated fumes, Cabron oxides, magnesium oxide fumes, samll amounts of nitrogen and sulfur oxides.					

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
 Secure and evacuate the area, put on protective equipment, then add talc or chalk (Calcium Carbonate) powder to spill. Contact appropriate authorities to handle cleanup. Control all sources of ignition. For large spills, evacuate and call hazmat authorities.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
 Do not expose to heat, open flames, sparks or severe shock. Store according to Class G Explosive. Avoid wet storage conditions.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS	NIOSH				ACGIH		OSHA	
	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³	TLV/TWA ppm	TWA mg/m ³	PEL ppm	PEL mg/m ³
Potassium Chlorate	NE		NE		NE		NE	
Sugar		5 (respirable)						15 mg/m ³ total, 5 mg/m ³ respirable
Magnesium Carbonate		10 mg/m ³ total, 5 mg/m ³ respirable		NE		10 mg/m ³ total		10 mg/m ³ total, 5 mg/m ³ respirable
Nitrocellulose	NE		NE		NE		NE	
o-Chlorobenzylidene malononitrile	0.05		C 0.05	0.4			0.05	0.4

PERSONAL PROTECTION

RESPIRATORY PROTECTION:
 Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

PROTECTIVE GLOVES:
 Wear appropriate protective gloves to prevent skin exposure. Hazmat suit may be needed.

EYE PROTECTION:
 Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
 Wear appropriate protective clothing to prevent skin exposure. Hearing protection is also advised when product is used as intended.

WORK / HYGIENIC PRACTICES:
 Use good safe practices. Do not smoke, drink, or eat while handling product; wash hands after handling product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR Cream color - irritating.	VAPOR PRESSURE NA
VOC NA Volatility NA	SPECIFIC GRAVITY (WATER = 1) Greater than 1
BOILING POINT / BOILING RANGE NA	SOLUBILITY IN WATER Partial
FLASH POINT Approx. 40° C	VISCOSITY NA
FLAMMABLE LIMITS LEL: NA UEL: NA	VAPOR DENSITY (AIR = 1) NA
AUTOIGNITION TEMPERATURE Approx. 170° C	EVAPORATION RATE BUTYL ACETATE = 1) NA

SECTION 10 - STABILITY AND REACTIVITY

STABILITY STABLE x	CONDITIONS TO AVOID: Sources of ignition, excessive heat, severe shock. Store in a dry location, avoid water contact. Product is a Class G Explosive.
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INCOMPATIBILITY (MATERIALS TO AVOID):
 Avoid organic compounds and atomized metals (magnesium, zinc, aluminum, etc.)

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
 Carbon oxides, halogenated fumes, nitrogen oxides, magnesium oxide fumes,

HAZARDOUS POLYMERIZATION: Will not occur	CONDITIONS TO AVOID: None related to polymerization.
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SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (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 ³ /4H
	208-915-9		
Nitrocellulose	9004-70-0	Oral, Rat: >5000 mg/kg	NE
	NR		
o-Chlorobenzylidenemalononitrile	2698-41-1	Oral, mouse: 282 mg/kg. Oral, Rat: 178 mg/kg .	inhalation mouse LC50=2,753 mg/m ³ /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 1.4G, UN 0301	
DOT HAZARD CLASS / Pack Group: Explosives, 1.4G, (6.1), (8) / II	IATA HAZARD CLASS / Pack Group: 1.4G, (6.1), (8) / II 75Kg Cargo.
REFERENCE: 49CFR	IMDG HAZARD CLASS: Explosives 1.4G, (6.1), (8)
UN / NA IDENTIFICATION NUMBER: UN0301	RID/ADR Dangerous Goods Code: Explosives 1.4G (Sub 6, 8.1)
LABEL: Explosives 1.4G, Poison, Corrosive	UN TDG Class / Pack Group: 1.4G, (6.1), (8) / II

HAZARD SYMBOLS:



Hazard Identification Number (HIN):
NA

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.

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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>R1 : Explosive when dry. R2 : Risk of explosion by shock, friction, fire, or other sources of ignition. R5 : Heating may cause an explosion. R9 : Explosive when mixed with combustible material. R11 : Highly flammable. R20/22 : Harmful by inhalation and if swallowed. R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p>	<p>(+-EXPLOSIVE)</p>  <p>(+-FLAMMABLE)</p>  <p>(+-CORROSIVE)</p>  <p>(+-TOXIC)</p>  <p>(+-HARMFUL TO THE ENVIRONMENT)</p>  <p>(+-HARMFUL)</p> 	<p>S2 : Keep out of the reach of children. S13 : Keep away from food, drink and animal feedingstuffs. S16 : Keep away from sources of ignition - No smoking. S27 : Take off immediately all contaminated clothing. S61 : 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: FLAMMABILITY: PHYSICAL HAZARD: PERSONAL PROTECTIVE EQUIPMENT:	2 4 2 K	0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME

REVISION SUMMARY:
 Revised to GHS/EU protocols 8/1/2008 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.