MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **40mm Direct Impact Round CS**
PRODUCT NUMBER: **6322** **DATE:** **March 15, 2010**

TRADE NAME: 40mm Direct Impact Round CS
GENERAL USE: Crowd Control
CHEMICAL FAMILY explosive/primer/CS agent
PRODUCT DESCRIPTION:
Canister with cream color - irritating contents . (Explosive Device)

DEFENSE TECHNOLOGY

MANUFACTURED FOR:
Safariland L.L.C.

DATE PREPARED: **March 15, 2010**
SUPERSEDES: **August 11, 2008**

ADDRESS (NUMBER, STREET, P.O. BOX)
13386 International Parkway

TELEPHONE NUMBER FOR INFORMATION / Customer Service
904-741-5400

(CITY, STATE AND ZIP CODE) COUNTRY
Jacksonville, FL 32218 **USA**

CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER
ChemTel INC.
1-800-255-3924 North America Toll Free
01-813-248-0585 International

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION! EXPLOSIVE/DEFLAGRATING (FAST BURN RATE) PRODUCT. KEEP AWAY FROM HEAT. DO NOT SUBJECT TO MECHANICAL OR ELECTRICAL SHOCK. EXPLODING CARTRIDGES MAY EJECT SHRAPNEL AT HIGH VELOCITIES. PARTICLES FROM FIRING MAY BE HARMFUL IF INHALED. DO NOT TAKE INTERNALLY. COMPONENTS MAY HARM ENVIRONMENT.

Individual cartridges may ignite if the primer is struck or if the cartridge is exposed to excess heat. Oxides of Lead, Antimony, Aluminum, Magnesium, Nitrogen, Carbon, and Sulfur. Lead and Antimony fumes may also be produced on thermal decomposition.

POTENTIAL HEALTH EFFECTS

INHALATION:

Both pre and post ignition ingredients are hazardous and capable of producing long term health effects due primarily to the presence of zinc, lead, antimony in the product. While normal handling of the undetonated 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 finished cartridge or canister 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 slightly irritating to the eyes and the respiratory tract. The particles may contain trace amounts of the following harmful substances:

Lead: Ingestion of large amounts of lead can cause abdominal pain, constipation, cramps, nausea and/or vomiting. Chronic exposure to lead can cause kidney damage, anemia, reproductive effects, developmental effects and permanent nervous system damage in humans including changes in cognitive function. It is unlikely that the amount of particles that someone would be exposed to from firing a loaded round would be sufficient to cause any of these effects.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: There are no medical conditions known to be aggravated by exposure to this product in its solid form. Exposure to lead compounds in the primer can aggravate anemia, cardiovascular and respiratory disease.

INHALATION:
Detonated device emits irritant vapors.

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..

INGESTION:
Toxic substance. Product will cause irritation to gastro-intestinal tract.

NTP? **Yes-Lead cpds.** IARC MONOGRAPHS? **Yes-Lead products (2B)** OSHA REGULATED? **Yes- Lead**

CALIFORNIA, Prop.65? **Yes, Lead compounds and Antimony trioxide formed during use of product** ESIS NOTATION? **Yes**

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: 40mm Direct Impact Round CS
PRODUCT NUMBER: 6322 **DATE:** March 15, 2010

SECTION 3 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Powder Charge- Product will contain 1 or more of the following hazardous components					
Nitrocellulose	**NR**	**9004-70-0**	**NR**	**E,F**	**R1, R2, R5 ,R11**
Dibutyl phthalate	**NR**	**84-74-2**	**201-557-4**	**T,N**	**R50, R61,R62**
Diphenylamine	**NR**	**122-39-4**	**204-539-4**	**T,N**	**R23/24/25, R33, R50/53**
2,4,- Dinitrotoluene	**NR**	**121-14-2**	**204-450-0**	**T,N**	**R23/24/25, R48/22, R45, R62 R68, R50/53**
Potassium perchlorate	**NR**	**7778-74-7**	**231-912-9**	**Xn, O**	**R9, R22**
Potassium nitrate	**NR**	**7757-79-1**	**231-818-8**	**Xn, O**	**R8, R36/37/38**
Rosin	**NR**	**8050-09-7**	**232-475-7**	**Xi**	**R43**
Ethyl Acetate	**NR**	**141-78-6**	**205-500-4**	**F, Xi**	**R11, R36, R66, R67**
Magnesium	**NR**	**7439-95-4**	**231-104-6**	**F**	**R11, R15**
Antimony Sulfide	**NR**	**1345-04-6**	**231-146-5**	**Xn, N**	**R20/22, R51/53**
Primer - Product will contain 1 or more of the following hazardous components					
Normal Lead styphnate	**NR**	**15245-44-0**	**239-290-0**	**E,T,N**	**R3, R20/22, R33, R50/53, R61, R62**
Basic Lead styphnate	**NR**	**12403-82-6**	**235-642-2**	**E,T,N**	**R3, R20/22, R33, R50/53, R61, R62**
Lead Azide	**NR**	**13424-46-9**	**236-542-1**	**E,T,N**	**R3, R20/22, R33, R50/53, R61, R62**
Lead Thiocyanate	**NR**	**592-87-0**	**209-774-6**	**T**	**R23/24/25**
Nitrocellulose	**NR**	**9004-70-0**	**NR**	**E,F**	**R1, R2, R5 ,R11**
Tetracene	**NR**	**109-27-3**	**203-659-4**	**E**	**R3, R5, R20/22**
Potassium chlorate	**NR**	**3811-04-9**	**223-289-7**	**Xn, O**	**R9, R20/22**
Potassium nitrate	**NR**	**7757-79-1**	**231-818-8**	**Xn, O**	**R8, R36/37/38**
Barium nitrate	**NR**	**10022-31-8**	**233-020-5**	**T, O**	**R8, R23/24/25**
Antimony Sulfide	**NR**	**1345-04-6**	**231-146-5**	**Xn, N**	**R20/22, R51/53**
Zinc	**NR**	**7440-66-6**	**231-175-3**	**N**	**R17, 50/53**
Remainder of Product - Product will contain 1 or more of the following hazardous components					
o-Chlorobenzyl-indenemalononitrile	**NR**	**2698-41-1**	**220-278-9**	**None**	**R20/22**
Magnesium Oxide	**NR**	**1309-48-4**	**215-171-9**	**None**	**None**
Fumed Silica	**NR**	**7631-86-9**	**231-545-4**	**None**	**None**
Tin	**NR**	**7440-31-5**	**231-141-8**	**F, Xi**	**R11, R36/37/38**
Zinc	**NR**	**7440-66-6**	**231-175-3**	**N**	**R17, 50/53**
Lead	**NR**	**7439-92-1**	**231-100-4**	**T,N**	**R20/22, R33, R61, R62**
Nickel	**NR**	**7440-02-0**	**231-111-4**	**F, Xn**	**R40, R43**
Arsenic	**NR**	**7440-38-2**	**231-148-6**	**T**	**R23/25**
Antimony	**NR**	**7440-36-0**	**231-146-5**	**None**	**None**
Bismuth	**NR**	**7440-69-9**	**231-177-4**	**None**	**None**
Chromium	**NR**	**7440-47-3**	**231-157-5**	**None**	**None**
Copper	**NR**	**7440-50-8**	**231-159-6**	**None**	**None**
Iron	**NR**	**7439-89-6**	**231-096-4**	**None**	**None**
Manganese	**NR**	**7439-96-5**	**231-105-1**	**None**	**None**
Silicon	**NR**	**7440-21-3**	**231-130-8**	**None**	**None**
Tungsten	**NR**	**7440-33-7**	**231-143-9**	**None**	**None**
Aluminum	**NR**	**7429-90-5**	**231-072-3**	**F**	**R15,R17**

MATERIAL SAFETY DATA SHEET

PRODUCT NAME:	**40mm Direct Impact Round CS**		
PRODUCT NUMBER:	**6322**	**DATE:**	**March 15, 2010**

SECTION 3 - HAZARDOUS INGREDIENTS Continued

NOTES: This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Directive 1907/2006 (REACH). Hazard symbols and risk phrases are based on maximum listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) or the European (GHS) directive 1907/2006 and are considered trade secrets under US Federal Law (29CFR and 40CFR), Canadian Law (Health Canada Legislation), and European Union Directive 67/548/EEC.

SECTION 4 - FIRST AID MEASURES

INHALATION:

For symptoms of lung irritation occur (coughing, wheezing or breathing difficulty), remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep affected person warm and at rest. Get medical attention.

EYES:

Remove contact lenses, then wash for 15 minutes with clean potable water lifting upper and lower lids occasionally. Seek medical attention if irritation persists.

SKIN:

Wash with plenty of soap and water. Seek medical attention if delayed dermatitis develops. For contact with burning (ignited) particles, medical treatment may be needed for thermal burns.

INGESTION:

Contact medical authorities immediately. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs naturally, have victim lean forward to avoid aspiration of regurgitant. Give 1-2 glasses of water to victim if victim is conscious and able to swallow and seek immediate medical assistance. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:

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. Shrapnel may be thrown from exploding devices under containment. See 2008 Emergency response Guidebook for further information.

EXTINGUISHING MEDIA:

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.

FIRE FIGHTING PROCEDURES:

In case of fire, use normal fire fighting equipment. Protection concerns must also address the potential of the physical characteristic of this product as explosive. Quarantine area for at least 1500 feet from fires involving product.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If fire reaches cargo, do not fight; withdraw personnel to safe distance. Evacuate all persons, including emergency responders from the area for 1500 feet (1/3 mile) in all directions.

HAZARDOUS COMBUSTION PRODUCTS:

Metal Compounds, Carbon Monoxide, Carbon Dioxide, Nitrous Oxides, Various complex oxides of metals, Nitrogen.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

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.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

HANDLING: Cartridge may detonate or burn if case is punctured or severely damaged.
STORAGE: Avoid storage near extreme heat, ignition sources or open flame.
Shelf Life Limitations: Not known
Incompatible Materials for Packaging: None known
Incompatible Materials for Storage or Transport: Acids, Class A & B explosives, strong oxidizers, and caustics
CONDITIONS TO AVOID: Mechanical impact or shock, electrical discharge, high energy EM fields (radar stations).

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: 40mm Direct Impact Round CS
PRODUCT NUMBER: 6322 **DATE:** March 15, 2010

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous Components	CAS #	ACGIH Exposure Limits	OSHA Exposure Limits
2,4,- Dinitrotoluene	**121-14-2**	0.2mg/m3, skin	1.5mg/m3, skin
Aluminum Powder	**90-5**	1.0mg/m3 (respirable)	5mg/m3 (respirable)
Antimony Sulfide	**1345-04-6**	0.5 mg/m3	0.5 mg/m3
Arsenic	**7440-38-2**	0.01 mg/m3	0.01 mg/m3
Barium nitrate	**10022-31-8**	0.5 mg/m3	0.5 mg/m3
Copper	**7440-50-8**	0.2mg/m3 (fume), 1mg/m3 (dusts and mists)	0.1mg/m3 (fume) 1mg/m3 (dusts & mists)
Diphenylamine	**122-39-4**	10 mg/m3	10 mg/m3
Ethyl Acetate	**141-78-6**	400 ppm (1400 mg/m3)	400 ppm (1400 mg/m3)
Glass Powder	**65997-17-3**	10 mg/m3 (particulate)	15 mg/m3
Graphite	**7782-42-5**	2 mg/m3	2.5 mg/m3 (respirable dust)
Lead	**7439-92-1**	0.05mg/m3 (Ceiling)	0.05mg/m3 (Ceiling)
Lead Azide	**13424-46-9**	NE	NE
Lead Thiocyanate	**592-87-0**	NE	NE
Magnesium	**7439-95-4**	NE	NE
Magnesium Carbonate	**546-93-0**	NE	15 mg/m3 total , 5 mg/m3 respirable
Manganese	**7439-96-5**	0.2 mg/m3	5 mg/m3 (Ceiling)
Nickel	**7440-02-0**	1.5 mg/m3 (inhalable)	1 mg/m3
Graphite	**7782-42-5**	2 mg/m3 (respirable)	NE
Nickel	**7440-02-0**	1.5 (respirable)	1
o-Chlorobenzylindene-malononitrile	**2698-41-1**	0.4 mg/m3 STEL (NIOSH)	0.4 mg/m3
Silica, Fumed	**7631-86-9**	6 mg/m3 (NIOSH)	80 mg/m3
Magnesium Oxide	**1308-48-4**	NE	15 mg/m3
Tin	**7440-31-5**	2 mg/m3	2 mg/m3
Tin Dioxide	**18282-10-5**	2 mg/m3	2 mg/m3 (as Tin)
Tungsten	**7440-33-7**	5 mg/m3 TWA, 10 mg/m3 (STEL)	NE

Components not listed above do not have published exposure limits from ACGIH or OSHA.

PERSONAL PROTECTION

RESPIRATORY PROTECTION:
Respiratory protection not normally needed. Mask should be worn while cleaning debris from weapons

PROTECTIVE GLOVES:
None required for normal handling.

EYE PROTECTION:
Safety glasses with side shields required.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
Local exhaust ventilation is recommended if significant dusting occurs or fumes are generated. Otherwise, use general exhaust ventilation. Use hearing protection with this product.

WORK / HYGIENIC PRACTICES:
Avoid breathing fumes from ignition. DO NOT EAT/DRINK/SMOKE WHILE HANDLING PRODUCT!!!

MATERIAL SAFETY DATA SHEET

PRODUCT NAME:	**40mm Direct Impact Round CS**		
PRODUCT NUMBER:	**6322**	**DATE:**	**March 15, 2010**

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR Finished cartridge-Odorless.	VAPOR PRESSURE Not applicable.
pH Not applicable.	SPECIFIC GRAVITY (WATER = 1) Not applicable
MELTING POINT Not applicable.	SOLUBILITY IN WATER Insoluble - some components are soluble in water
FLASH POINT Not applicable.	VISCOSITY Not applicable
FLAMMABLE LIMITS **EXPLOSIVE!!** LEL: None UEL: None	VAPOR DENSITY (AIR = 1) Not applicable.
AUTOIGNITION TEMPERATURE NR	EVAPORATION RATE (WATER = 1) Not applicable.
VOLATILE ORGANIC COMPOUND (VOC) INFORMATION Not applicable.	
NOTES:	

SECTION 10 - STABILITY AND REACTIVITY

STABILITY STABLE **X** Stable under normal temperatures and pressure.	CONDITIONS TO AVOID: **Cartridge may detonate if case is punctured or severely damaged.**
INCOMPATIBILITY (MATERIALS TO AVOID): Acids, Class A & B explosives, strong oxidizers, and caustics.	
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Nitrogen oxides, carbon monoxide, lead oxides, carbon dioxide, lead dust/fume.	
HAZARDOUS POLYMERIZATION: Will not occur.	CONDITIONS TO AVOID: None related to polymerization.

SECTION 11 - TOXICOLOGICAL INFORMATION

Complete Product

Oral LD_{50}	NA
Dermal LD_{50}	NA
Inhalation LC_{50}	Not applicable for product. Particles generated from use may be irritating or slightly toxic.
Irritation	Not a skin or eye irritant as a loaded round. Particulate dusts and gases from spent round may be a mild respiratory / eye irritant.

Product Components

Hazardous Components	CAS #	LD50 of Ingredient (Oral, Rat - unless otherwise specified)	LC50 of Ingredient (Inhalation, Rat - unless otherwise specified)
1,3-diethyldiphenylurea	**85-98-3**	**7809mg/kg**	**Not Established**
2,4,- Dinitrotoluene	**121-14-2**	**268 mg/kg**	**Not Established**
3-methyl-1,1-diphenylurea	**13114-72-2**	**2930mg/kg**	**Not Established**
Antimony	**7440-36-0**	**7 g/kg**	**Not Established**
Antimony Sulfide	**1345-04-6**	**7000 mg/kg**	**Not Established**
Arsenic	**7440-38-2**	**763 mg/kg**	**Not Established**
Barium nitrate	**10022-31-8**	**355 mg/kg**	**Not Established**
Basic Lead styphnate	**12403-82-6**	**650 mg/kg**	**Not Established**
Bismuth	**7440-69-9**	**5000 mg/kg**	**Not Established**
Boron	**7440-42-8**	**650 mg/kg**	**Not Established**
Calcium Carbonate	**1317-65-3**	**6450mg/kg**	**Not Established**
Chromium	**7440-47-3**	**5045 mg/kg**	**Not Established**
Copper	**7440-50-8**	**413 mg/kg (oral, mouse)**	**> 1000 mg/m3**
Diphenylamine	**122-39-4**	**1120 mg/kg**	**Not Established**
HDPE	**9002-88-4**	**Not Established**	**12 gm/m3 30M (mouse)**
Iron	**7439-89-6**	**30 g/kg**	**Not Established**
Magnesium Carbonate	**546-93-0**	**8000 m/kg**	**Not Established**

Additional components on next page.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: 40mm Direct Impact Round CS
PRODUCT NUMBER: 6322 **DATE:** March 15, 2010

Product Components *(Continued)*

Hazardous Components	CAS #	LD50 of Ingredient (Oral, Rat - unless otherwise specified)	LC50 of Ingredient (Inhalation, Rat - unless otherwise specified)
Manganese	7439-96-5	9 gm/kg	Not Established
o-Chlorobenzylindene-malononitrile	2698-41-1	178 mg kg	LCLO 1806 mg m-3
Potassium chlorate	3811-04-9	1870 mg/kg	Not Established
Potassium sulfate	7778-80-5	6600 mg/kg	Not Established
Rosin	8050-09-7	3.0 mg/kg	110 mg/m3
Silicon	7440-21-3	3160 mg/kg	Not Established
Sugar	57-50-1	29,700 mg/kg	Not Established
Zinc	7440-66-6	> 8,437 mg/kg	Not Established

No LD50 or LC50 information is available for the following components: Aluminum,Calcium Silicide, Charcoal, Glass Powder, Graphite, Lead, Lead Azide, Lead Thiocyanate, Magnesium, Nickel, Nitrosodiphenylamine, Polyester Adipate, Potassium perchlorate, PVC Polymer, Strontium peroxide, Tin, Tungsten

SECTION 12 - ECOLOGICAL INFORMATION

No data is available on this product, but leachates of metal components may be harmful or toxic to aquatic life and waterfowl. Collection and careful disposal of spent rounds is highly advisable. Lead and nickel are expecially problematic when introduced into many ecosystems.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

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. Damaged materials pose a danger to anyone in the immediate area; consult experts for disposal of damaged products.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: **AMMUNITION TEAR PRODUCING, UN 0301**

DOT HAZARD CLASS / Pack Group: **Explosives,1.4G, (6.1), (8), / II**

REFERENCE: 49CFR

UN / NA IDENTIFICATION NUMBER: **UN0301**

LABEL: **Explosives 1.4G, Poison, Corrosive**

IATA HAZARD CLASS / Pack Group: **1.4G, (6.1), (8), / II, 75Kg Cargo Aircraft Only**

IMDG HAZARD CLASS: **Explosives 1.4G, (6.1), (8), / II**

RID/ADR Dangerous Goods Code: **Explosives 1.4G (Sub 6, 8.1)**

UN TDG Class / Pack Group: **1.4G, (6.1), (8), / II**

Hazard Identification Number (HIN): **NA**

HAZARD SYMBOLS:

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

PRODUCT NAME:	**40mm Direct Impact Round CS**		
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SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act): **Components are listed under Section8b.**

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):

Acute Health:	**YES**	Chronic Health:	**YES**
Fire:	**YES**	Sudden Release of Pressure:	**YES**
Reactive:	**NO**		

SARA 313 REPORTABLE INGREDIENTS: **Copper, Zinc (fume or dust), Dibutyl phthalate, Lead, Antimony.**

CERCLA (USA - Comprehensive Response Compensation and Liability Act): **Copper, R.Q.= 5000 lbs.; Zinc, R.Q. = 1000 lbs.; Dibutyl phthalate, R.Q. = 10 lbs.; Lead, R.Q. = 10 lbs.; Antimony, R.Q. = 5000 lbs. (No reporting is required if diameter of the pieces of metal is equal to or exceeds 100 micrometers (0.004 inches).**

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: **Lead Compounds / Antimony Trioxide from Use.**

State Right To Know Laws: **This product contains chemicals listed on the Right-to-Know Laws of CA, FL, MA, MI, MN, NJ, PA, & RI.**

CPR (Canadian Controlled Products Regulations): **Exempt under WHMIS regulations as explosive.**

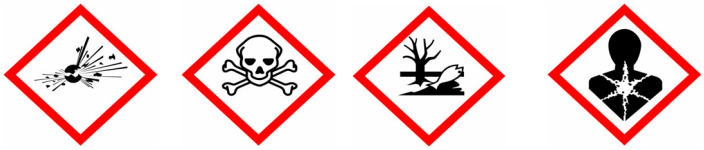
IDL (Canadian Ingredient Disclosure List): **Components are listed in Section 2.**

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): **Listed or exempt on both CDSL and NDSL.**

EINECS (European Inventory of Existing Commercial Chemical Substances): **Referenced.**

WGK Water Quality Index: **NA for product.**

EUROPEAN (GHS) HAZARD SYMBOLS



EU RISK PHRASES

R2: Risk of explosion by shock, friction, fire or other sources of ignition.
R20/22: Harmful by inhalation and if swallowed.
R33: Danger of cumulative effects.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R61: May cause harm to the unborn child.
R62: Possible risk of impaired fertility.

EU SAFETY PHRASES

S1/2: Keep locked up and out of the reach of children.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S53: Avoid exposure — obtain special instructions before use.
S60: This material and its container must be disposed of as hazardous waste.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME:	**40mm Direct Impact Round CS**		
PRODUCT NUMBER:	**6322**	**DATE:**	**March 15, 2010**

SECTION 16 - OTHER INFORMATION

HMIS HAZARD RATINGS

HEALTH:	**2**	0 = INSIGNIFICANT
FLAMMABILITY:	**4**	1 = SLIGHT
PHYSICAL HAZARD:	**2**	2 = MODERATE
		3 = HIGH
Personal Protective Equipment: K		4 = EXTREME

Legend:

ACGIH - American Congress of Government Industrial Hygienists , CAS - Chemical Abstracts Service
EINECS- European Inventory of Existing Commercial Chemical Substances
HMIS - Hazardous Materials Identification System, IARC - International Agency for Research on Cancer
NA - Not Available , ND - Not Determined, NE - Not Established, NR - Not Reported
NIOSH - National Institute for Occupational Safety and Health, NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration

Full R-Phrases:R1 Explosive when dry. R2 Risk of explosion by shock, friction, fire or other sources of ignition. R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition. R5 Heating may cause an explosion. R8 Contact with combustible material may cause fire. R9 Explosive when mixed with combustible material. R11 Highly flammable. R15 Contact with water liberates extremely flammable gases. R17 Spontaneously flammable in air. R20 Harmful by inhalation. R20/22 Harmful by inhalation and if swallowed. R22 Harmful if swallowed. R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R23/25 Toxic by inhalation and if swallowed. R33 Danger of cumulative effects. R36 Irritating to eyes. R36/37/38 Irritating to eyes, respiratory system and skin.

R40 Limited evidence of a carcinogenic effect. R43 May cause sensitisation by skin contact. R45 May cause cancer. R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed. R50 Very toxic to aquatic organisms. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.R61 May cause harm to the unborn child. R62 Possible risk of impaired fertility. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness. R68 Possible risk of irreversible effects.

REVISION SUMMARY:

MSDS Prepared by:
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