**DEFENSE TECHNOLOGY** 

## MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Direct Impact® Extended Range Round, OC

PRODUCT NUMBER: 6320LE DATE: February 2, 2011

TRADE NAME:

Direct Impact® Extended Range Round, OC

GENERAL USE: Crowd Control

CHEMICAL FAMILY: Fuze/Charge/Chemical Irritant

PRODUCT DESCRIPTION:

Canister containing fuze & cream colored irritating powder.

(Explosive Device)

MANUFACTURED FOR: DATE PREPARED: February 2, 2011

Safariland, LLC SUPERSEDES: New Issue

ADDRESS (NUMBER, STREET, P.O. BOX) TELEPHONE NUMBER FOR INFORMATION / Customer Care

13386 International Parkway 800-347-1200

(CITY, STATE AND ZIP CODE) COUNTRY CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER

Jacksonville, FL 32218

USA

ChemTel

North America Toll Free International

## **SECTION 2 - HAZARDS IDENTIFICATION**

## **EMERGENCY OVERVIEW**

WARNING! THIS DEVICE CONTAINS AN EXPLOSIVE CHARGE AND AN IRRITATING GAS. KEEP AWAY FROM FIRE AND HEAT SOURCES. DO NOT SUBJECT TO MECHANICAL OR ELECTRICAL SHOCK. THIS PRODUCT SHOULD ONLY BE DEPLOYED BY PERSONNEL TRAINED IN ITS PROPER USE. AS WITH ALL MENTIONS, SHRAPNEL MAY BE EXPELLED FROM PRODUCT DURING NON-CONTROLLED IGNITION SUCH AS FIRES. Individual cartridges may ignite if the unit is exposed to extreme heat. Oxides of Nitrogen, Carbon, and Sulfur may be formed. The hazards from single exposures are generally slight. The gas component is temporarily irritating to eyes, skin, and the respiratory tract when in close proximity to a deployed device.

## POTENTIAL HEALTH EFFECTS

## INHALATION:

Normal handling of the unused product poses no exposure hazards. Temporary respiratory irritation, including coughing and/or wheezing, will occur from exposure to deployed device at close proximity. While particles and vapors from deployed product may be an inhalation hazard, the risk is lessened where single exposures are concerned. Persons with pre-existing respiratory ailments are much more likely to develop cough and wheezing.

#### SKIN:

Slight skin irritation may occur if internal contents of device come in contact with the skin. Deployed product may cause temporary skin irritation to persons in close proximity.

#### EYES:

Irritation will occur if contents of unused device come in contact with eyes. Temporary eye irritation will occur from exposure to deployed product at a close distance.

### INGESTION:

Ingestion of deployed product is highly unlikely. Components of unused product are toxic and will cause irritation to throat and gastrointestinal tract.

## CARCINOGENICITY:

Product contains lead salts, which are considered carcinogenic by the IARC, the NTP, OSHA, the ECHA (ESIS Notation), and the State of California (Proposition 65). These components pose no exposure risk in handling the unused product, and pose only a very slight risk in normal single deployments.

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PRODUCT NUMBER:	6320LE		DATE:	Fe	bruary 2, 2011		
	SECTI	ION 3-HAZARDOU	IS INGREDIENTS				
Powder Charge- Product will contain 1 or more of the following hazardous components							
Hazardous Components	% (by Weight)	CAS#	EINECS#	Hazard Symbol	RISK PHRASES (Full Text Section 15)		
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		
Sulfur	100	7704-34-9	231-722-6	F, Xi	R11, 36/37/38		
Charcoal	NR	16291-96-6	240-383-3	None	None		
Rosin	NR	8050-09-7	232-475-7	Xi	R43		
Graphite	NR	7782-42-5	231-955-3	None	None		
Prime	er - Product will	contain 1 or more of th	e following hazardous comp	onents			
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	Т	R23/24/25		
Nitrocellulose	NR	9004-70-0	NR	E,F	R1, R2, R5, R11		
Tetracene	NR	109-27-3	203-659-4	Е	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	f Product - Prod	uct will contain 1 or mo	ore of the following hazardou	ıs compon	ents		
Oleoresin Capsicum 943355	NR	8023-77-6	NR	None	None		
Potassium Perchlorate	NR	7778-74-7	231-912-9	O, Xn	R9, R22		
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		
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		
Aluminum	NR	7429-90-5	231-072-3	F	R15, R17		

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.

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## 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. In unusual cases 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).

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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION				
Hazardous Components	CAS#	ACGIH Exposure Limits	OSHA Exposure Limits	
Antimony Sulfide	1345-04-6	0.5 mg/m3	0.5 mg/m3	
Charcoal	7782-42-5	2 mg/m3	2.5 mg/m3 (respirable dust)	
Copper	7440-50-8	0.2mg/m3 (fume) 1mg/m3 (dusts and mists)	0.1mg/m3 (fume) 1mg/m3 (dusts & mists)	
Dibutyl phthalate	84-74-2	5 mg/m3	5 mg/m3	
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)	
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	
Silica, Fumed	7631-86-9	6 mg/m3 (NIOSH)	80 mg/m3	
Silicon	7440-21-3	10 mg/m3	15 mg/m3	
Sulfur	7704-34-9	15 mg/m3	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:

A vapor respirator may be advisable or required under certain deployment conditions; consult manufacturer for further guidance.

PROTECTIVE GLOVES:

None required for handling unused product; where possible, use protective gloves for handling spent grenades.

EYE PROTECTION:

Safety glasses with side shields or face shield strongly suggested.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Local exhaust ventilation is recommended if product is discharged indoors. Hearing protection is recommended with all products containing an explosive charge.

WORK / HYGIENIC PRACTICES:

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

PRODUCT NAME: Direct Impact® Extended Range Round, OC PRODUCT NUMBER: 6320LE **February 2, 2011** DATE: SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES APPEARANCE AND ODOR VAPOR PRESSURE Canister containing fuze & cream colored irritating powder. Not applicable. (Explosive Device) SPECIFIC GRAVITY (WATER = 1) pΗ Not applicable. Not applicable MELTING POINT SOLUBILITY IN WATER Insoluble - some components are soluble in water Not applicable. FLASH POINT VISCOSITY Not applicable. Not applicable VAPOR DENSITY (AIR = 1) FLAMMABLE LIMITS **EXPLOSIVE!!** Not applicable. LEL: None **UEL: None** AUTOIGNITION TEMPERATURE EVAPORATION RATE (WATER = 1) Not applicable. VOLATILE ORGANIC COMPOUND (VOC) INFORMATION Not applicable. NOTES: SECTION 10 - STABILITY AND REACTIVITY CONDITIONS TO AVOID: STABILITY: STABLE Stable under normal temperatures and pressure. 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: CONDITIONS TO AVOID: Will not occur. None related to polymerization. SECTION 11 - TOXICOLOGICAL INFORMATION **Complete Product** Oral LD<sub>50</sub> Product contents are toxic; ingestion of used product is highly unlikely. Dermal LD<sub>50</sub> Product contents are temporarily irritating to skin Inhalation LC<sub>50</sub> Unused product is harmless. Vapors from deployed product may be slightly irritating. Not a skin or eye irritant in unused form. Vapors from used product will be irritating to skin and eyes, Irritation and possibly irritating to the respiratory system. **Product Components** LC50 of Ingredient LD50 of Ingredient **Hazardous Components** CAS# (Inhalation, Rat - unless otherwise (Oral, Rat - unless otherwise specified) specified) Antimony 7440-36-0 7 g/kg Not Established **Antimony Sulfide** 1345-04-6 7000 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 5045 mg/kg Chromium 7440-47-3 Not Established 7440-50-8 Copper 413 mg/kg (oral, mouse) > 1000 mg/m3Dibutyl phthalate 84-74-2 4250 mg/m3 8 q/kq Diphenylamine 122-39-4 1120 mg/kg Not Established Ethyl Acetate 141-78-6 5620 mg/kg 200 gm/m3 Iron 7439-89-6 30 g/kg Not Established 7439-92-1 Not Established IARC: Group 2A carcinogen Lead Normal Lead styphnate 15245-44-0 650 mg/kg Not Established 8050-09-7 Rosin 3.0 mg/kg 110 mg/m3 Silica, Fumed 7631-86-9 3160 mg/kg as Silicon Not Established

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## SECTION 11 - TOXICOLOGICAL INFORMATION Continued

### Product Components (Continued)

1 Todast Components (Continued)						
Hazardous Components	CAS#	LD50 of Ingredient (Oral, Rat - unless otherwise specified)	LC50 of Ingredient (Inhalation, Rat - unless otherwise specified)			
Oleoresin Capsicum 943355	8023-77-6	3g/kg	>10000 gm/m3/4H			
Rosin	8050-09-7	3.0 mg/kg	110 mg/m3			
Silica, Fumed	7631-86-9	3160 mg/kg as Silicon	Not Established			
Silicon	7440-21-3	3160 mg/kg	Not Established			
Strontium nitrate	10042-76-9	1892 mg/kg	Not Established			
Tetracene	109-27-3	1 – 3 g/kg	Not Established			
Tin Dioxide	18282-10-5	>20 gm/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, 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 especially 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

HAZARD SYMBOLS:









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

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.

PRODUCT NAME: Direct Impact® Extended Range Round, OC

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## **SECTION 15 - REGULATORY INFORMATION**

TSCA (USA - Toxic Substance Control Act): Components are listed under Section 8b.

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), Lead, Antimony.

CERCLA (USA - Comprehensive Response Compensation and Liability Act): **Copper, R.Q.= 5000 lbs.**; **Zinc, R.Q. = 1000 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.

PRODUCT NAME:	Direct Impact <sup>®</sup> Extended Range Round, OC						
PRODUCT NUMBER:	6320LE DA		February 2, 2011				
SECTION 16 - OTHER INFORMATION							
HMIS HAZARD RATINGS							
	HEALTH:	2	0 = INSIGNIFICANT				
	FLAMMABILITY: PHYSICAL HAZARD:		1 = SLIGHT 2 = MODERATE				
	3 = HIGH						
	Personal Protective Equipment: K						

## 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: New Issue 2/2/2011.

#### MSDS Prepared by:

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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.