MATERIAL SAFETY DATA SHEET SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 15 Gram Distraction Dev	vice® Reload				
PRODUCT NUMBER: 7001	•	DATE:	June 19, 2013		
TRADE NAME: 15 Gram Distraction Device® Reload					
GENERAL USE: Distraction Device.					
CHEMICAL FAMILY: Fuze/Charge/ Flash Agent		DEFENSE TE	CHNOLOGY [®]		
PRODUCT DESCRIPTION:					
Internal container containing fuze & powder. (Safety Clip					
Added) MANUFACTURED FOR:	DATE PREPARED:	June 19, 2013			
Safariland, LLC	SUPERSEDES:	All Previous Vers	sions		
ADDRESS (NUMBER, STREET, P.O. BOX)	TELEPHONE NUMBER	R FOR INFORMATION	/ Customer Care		
13386 International Parkway		800-347-1200			
(CITY, STATE AND ZIP CODE) COUNTRY	CHEMTEL 24-H	OUR EMERGENCY TE	ELEPHONE NUMBER		
Jacksonville, FL 32218 USA		1-800-255-392	24 01-813-248-0585		
		North America To	ll Free International		
SECTION 2 - H	HAZARDS IDENTIF	ICATION			
EMERGENCY OVERVIEW					
PERSONNEL TRAINED IN ITS PROPER USE. RELO IN MANUFACTURER-APPROVED RELOADABLE S INJURY OR DEATH. MANUFACTURER BEARS NO may ignite if the unit is exposed to extreme heat. Oxide unused product pose no exposure hazards; small amo deployment; the hazards from single exposures are ge	YSTEMS; ANY OTHER RESPONSIBILITY FO es of Nitrogen, Carbon punts of metal oxides a	R USAGE MAY RES DR UNAPPROVED U , and Sulfur may be f	ULT IN SERIOUS JSES. Individual cartridges formed. Chemicals in		
POTENTIAL HEALTH EFFECTS					
INHALATION:					
Normal handling of the unused product poses no exposure he the risk is slight where single exposures are concerned. Whe cause temporary slight irritation to the respiratory tract.					
SKIN:					
Possible temporary skin irritation may occur if internal conter contact skin.	nts of device come in cor	ntact with the skin or if v	vapors from detonated device		
EYES:					
Irritation may occur if contents of unused device come in con during deployment lodge in the eye.	ntact with eyes. Some ter	mporary irritation may o	occur if particles generated		
INGESTION:					
Ingestion of deployed product is highly unlikely. Components of unused product are toxic and will cause irritation to throat and gastro- intestinal tract.					
CARCINOGENICITY:					
Product contains hexavalent chromium and lead salts, which (ESIS Notation), and the State of California (Proposition 65) State of California. These components pose no exposure ris single deployments.	. Product also contains c	arbon black, which is lis	sted by the IARC and the		

PRODUCT NAME: PRODUCT NUMBER:	15 Gram Distr 7001	action Device® Reloa	d DATE:		uno 10, 2012
PRODUCT NUMBER:		ON 3 - HAZARDO	US INGREDIENTS	JI	une 19, 2013
Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Barium Chromate	NR	10294-40-3	233-660-5	т	None
Manganese Powder	NR	7439-96-5	231-105-1	None	None
Lead Chromate	NR	7758-97-6	231-846-0	T,N	R33,R40,R50/53,R62
Nitrocellulose	NR	9004-70-0	NR	Е	NR
Red Iron Oxide	NR	1309-37-1	215-168-2	None	None
Titanium Powder	NR	7440-32-6	231-142-3	None	None
Zirconium Powder	NR	7440-67-7	231-176-9	F	R15,R17
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
Aluminum Powder	NR	7429-90-5	231-072-3	F	R15,R17
Magnesium Powder	NR	7439-95-4	231-104-6	F	R11, R15

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 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.

		raction Device® Reload	D.175	lune 10, 0010
PRODUCT NUMBER:	7001		DATE:	June 19, 2013
	SECT	ION 5 - FIRE FIGHTING MEAS	URES	
randomly explode. Will not mass	explode if multi	1910.1200) Explosive. Can explode under ple devices are involved. Burning materia under containment. See 2008 Emergend	al may produce to	oxic and irritating vapors.
EXTINGUISHING MEDIA:				
and let fire burn.		arbon dioxide, dry chemical or earth may	be used. If the fir	e reaches the cargo, withdraw
this product as explosive. Quaran	tine area for at	t. Protection concerns must also address least 1500 feet from fires involving produ		the physical characteristic of
UNUSUAL FIRE AND EXPLOSIC				
area for 1500 feet (1/3 mile) in all		onnel to safe distance. Evacuate all pers	ons, including en	nergency responders from the
HAZARDOUS COMBUSTION PR				
Metal Compounds, Carbon Mono	xide, Carbon D	ioxide, Nitrous Oxides, Various complex	oxides of metals,	, Nitrogen.
	SECTION	6 - ACCIDENTAL RELEASE M	EASURES	
STEPS TO BE TAKEN IN CASE	MATERIAL IS	RELEASED OR SPILLED:		
		ALL CHEMTEL AT 1-800-255-3924. Sp extreme heat. A spill of this material will		
	SECT	TION 7 - HANDLING AND STOP	RAGE	
PRECAUTIONS TO BE TAKEN I	N HANDLING	AND STORAGE:		
STORAGE: Avoid storage near e	xtreme heat, ig	se is punctured or severely damaged. nition sources or open flame. • shock, electrical discharge, high energy	EM fields (radar	stations).
SECTI	ON 8-EXP	OSURE CONTROLS / PERSON	AL PROTECT	TION
Hazardous Components	CAS #	ACGIH Exposure Limits	E	OSHA Exposure Limits
Barium Chromate	10294-40-3	0.5 mg/m3		0.5 mg/m3
Manganese Powder	7439-96-5	0.2 mg/m3	5	mg/m3 (Ceiling)
Lead Chromate (a)(b)	7758-97-6	0.012 mg/m3 as Chromium / 0.05 mg/m3 as Lead	0.1 mg	/m3 (Ceiling as CrO3)
Nitrocellulose	9004-70-0	NE		NE
Red Iron Oxide	1309-37-1	5 mg/m3 respirable		10 mg/m3
Titanium Powder	7440-32-6	NE		NE
Zirconium Powder	7440-67-7	5 mg/m3 (NIOSH)		5 mg/m3
Potassium perchlorate	7778-74-7	NE		NE
Potassium nitrate	7757-79-1	NE		NE
Sulfur	7704-34-9	15 mg/m3		15 mg/m3
Charcoal	16291-96-6	NE		NE
Rosin	8050-09-7	Sensitizer - as low as possible		NE
Graphite	7782-42-5	2 mg/m3 (respirable)		NE
Aluminum Powder	7429-90-5	1.0mg/m3 (respirable)	5m	ng/m3 (respirable)
Magnesium Powder	7439-95-4	NE		NE
		Poison-see (29CFR 1910.10-25) (listed REL): As Pb: < 0.1 mg/m3 (TWA); As (

PRODUCT NAME:	15 Gram Distraction I	Device® Reload		
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SECTION 8	- EXPOSURE COI	NTROLS / PERSONAL	PROTECTION Co	ontinued
PERSONAL PROTECTION	I			
RESPIRATORY PROTECTION:				
A respirator may be advisable or	required under certain d	deployment conditions; consul	t manufacturer for fur	ther guidance.
PROTECTIVE GLOVES:				
None required for handling unuse	d product; where possib	ole, use protective gloves for h	nandling spent grenad	des.
EYE PROTECTION:				
Safety glasses with side shields o		uggested.		
OTHER PROTECTIVE CLOTHIN		acharaad indoora Haaring ar	ataction is recommon	ded with all products
Local exhaust ventilation is recom containing an explosive charge.	imendea il product is di	scharged indoors. Hearing pro	otection is recommen	ded with all products
WORK / HYGIENIC PRACTICES	<u>.</u>			
Avoid breathing fumes from ignition		K/SMOKE WHILE HANDLING	G PRODUCT!!!	
		ICAL AND CHEMICAL		
DESCRIPTION:		CONDITIONS TO AVOID		
Canister containing fuze & powde)r			
. .	и.	Not applicable.		
pH		SPECIFIC GRAVITY (W	AIER = 1)	
Not applicable.		Not applicable		
MELTING POINT		SOLUBILITY IN WATER		
Not applicable.		Insoluble - some compon	ents are soluble in wa	ater
FLASH POINT		VISCOSITY		
Not applicable.		Not applicable		
FLAMMABLE LIMITS	EXPLOSIVE!!	VAPOR DENSITY (AIR =	= 1)	
LEL: None UEL:	: None	Not applicable.		
AUTOIGNITION TEMPERATURE	=	EVAPORATION RATE (WATER = 1)	
NR		Not applicable.		
VOLATILE ORGANIC COMPOUI	ND (VOC) INFORMATI			
Not applicable.				
NOTES: None				
	SECTION 10	- STABILITY AND REA		
	SECTION 10			
STABILITY:		CONDITIONS TO AVOID		
Stable under normal temperatures	· · · · · · · · · · · · · · · · · · ·	Cartridge may detonate if	case is punctured or	severely damaged.
INCOMPATIBILITY (MATERIALS	-			
Acids, Class A & B explosives, st	rong oxidizers, and caus	stics.		
HAZARDOUS DECOMPOSITION	OR BYPRODUCTS:			
Nitrogen oxides, carbon monoxide	e, lead oxides, carbon d	lioxide, lead dust/fume.		
HAZARDOUS POLYMERIZATIO	N:	CONDITIONS TO AVOID):	
Will not occur.		None related to polymeriz	zation.	
	SECTION 11-	TOXICOLOGICAL INFO		
		Complete Product		
Oral LD ₅₀	Oral ingestion of used	or unused product may cause	sorious harm	
	-			
Dermal LD ₅₀	Expected to be mildly i	÷		
Inhalation LC ₅₀		luct. Particles and vapors gen		-
Irritation	Not a skin or eye irritar irritating to eyes and m	nt in unused form. Particulate hildly irritating to skin.	e dusts and gases from	n used product will be

PRODUCT NAME: 15 Gram Distraction Device® Reload PRODUCT NUMBER: 7001 DATE: June 19, 2013						
SECTION 11 - TOXICOLOGICAL INFORMATION Continued						
	Pro	duct Components				
Hazardous Components	CAS #	LD50 of Ingredient (Oral, Rat - unless otherwise specified)	LC50 of Ingredient (Inhalation, Rat - unless otherwise specified)			
Barium Chromate	10294-40-3	Not Established	Not Established			
Manganese Powder	7439-96-5	9 gm/kg	Not Established			
Lead Chromate	7758-97-6	> 12 g/kg (oral, mouse)	Not Established			
Nitrocellulose	9004-70-0	> 5 g/kg	Not Established			
Red Iron Oxide	1309-37-1	Not Established	Not Established			
Potassium Nitrate	7757-79-1	3450 mg/kg	Not Established			
Potassium Perchlorate	7778-74-7	Not Established	Not Established			
Titanium Powder	7440-32-6	Not Established	Not Established			
Zirconium Powder	7440-67-7	Not Established	Not Established			
Potassium perchlorate	7778-74-7	Not Established	Not Established			
Potassium nitrate	7757-79-1	3750 mg/kg	Not Established			
Sulfur	7704-34-9	> 8437 mg/kg	Not Established			
Charcoal	16291-96-6	Not Established	Not Established			
Rosin	8050-09-7	3.0 mg/kg	110 mg/m3			
Graphite	7782-42-5	Not Established	Not Established			
Aluminum Powder	7429-90-5	Not Established	Not Established			
Magnesium Powder	7429-90-5	Not Established	Not Established			
	SECTION 12 - E	COLOGICAL INFORMATION				
No data is available on this produc		omponents may be harmful or toxic to aq	uatic life and waterfowl. Collection			
		ead and chromium are especially proble				
	SECTION 13 - D	SPOSAL 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 14-1	RANSPORT INFORMATION				
PROPER SHIPPING NAME:	Grenades, Practice, UN045					
DOT HAZARD CLASS / Pack Group:	; ;	IATA HAZARD CLASS / Pack Group: 1.4G /	II 75kg max, Cargo Aricraft Only			
REFERENCE: 49CFR	-	IMDG HAZARD CLASS: 1.4G, II				
UN / NA IDENTIFICATION NUMBER:	UN0452	RID/ADR Dangerous Goods Code:	1.4G,II			
LABEL: Explosive, CAO		UN TDG Class / Pack Group:	I.4G/II			
HAZARD SYMBOLS: Hazard Identification Number (HIN): NA						
1.4 G						
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.

			straction Device® Reload				
PRODU	CT NUMBER:	7001			ATE:	June 19, 2013	
TOOA	SECTION 15 - REGULATORY INFORMATION TSCA (USA - Toxic Substance Control Act): Components are listed under Section8b.						
			-				
SARA			Iments and Reauthorization				
	Acute Health:	YES	CI	nronic Health:		YES	
	Fire:	YES	Su	udden Release of F	Pressure:	YES	
	Reactive:	NO					
SARA 3	13 REPORTABLE ING	GREDIENTS: CO	opper, Zinc (fume or dust),	Lead, Chromium			
lbs. : Cl or exce	nromium, R.Q. = 5000) Ibs. : Lead, R.((0.004 inches).	compensation and Liability Ac Q. = 100 lbs. (No reporting i Nitrates, Barium, Lead, an	s required if diame	ter of the pie	ces of metal is equal to	
Barium WARNII	chromate listed as `(NG: This product con	Chromium (VI) on tains Lead chro	oxic Enforcement Act of 1986 compounds', chemicals kn omate, listed as `Lead, inor ctive toxicity and cancer.	own to the state of	California to	cause cancer.	
State Ri RI.	ght To Know Laws: Th	is product con	tains chemicals listed on th	e Right-to-Know La	aws of CA, FL	., MA, MI, MN, NJ, PA, &	
CPR (C	anadian Controlled Pro	oducts Regulatio	ons): Exempt under	WHMIS regulation	s as explosiv	e.	
IDL (Ca	nadian Ingredient Disc	closure List):	Components are listed in	Section 2.			
DSL / N	DSL (Canadian Dome	estic Substances	List / Non-Domestic Substan	ces List): Listed or e	exempt on bo	oth CDSL and NDSL.	
EINECS	(European Inventory	of Existing Com	mercial Chemical Substances	s): Refere	enced		
WGK W	ater Quality Index:	NA for prod	luct.				
EUROP	EAN (GHS) HAZARD	SYMBOLS					
		K		$\diamondsuit \langle$	<u>ک</u> <	!>	
EU RISł	EU RISK PHRASES						
R20/22: R33: Da R50/53: R61: Ma	Harmful by inhalatio nger of cumulative e	n and if swallov ffects. : organisms, ma unborn child.	e or other sources of ignitio wed. ay cause long-term adverse		tic environm	ent.	
EU SAF	ETY PHRASES						
S45: In S53: Av	oid exposure — obta	i you feel unwel in special instr	ll, seek medical advice imm		label where p	oossible).	

PRODUCT NAME:	15 Gram Distraction Device® Reload							
PRODUCT NUMBER:	7001	D	ATE:	June 19, 2013				
SECTION 16 - OTHER INFORMATION								
HMIS HAZARD RATINGS								
	HEALTH:	2		0 = INSIGNIFICANT				
	FLAMMABILITY:	3		1 = SLIGHT				
	PHYSICAL HAZARD:	2		2 = MODERATE				
	Personal Protective Equipment	5+- E		3 = HIGH				
	Fersonal Frotective Equipment	n. L		4 = EXTREME				
EINECS- European Inventory of HMIS - Hazardous Materials Io NA - Not Available, ND - NIOSH - National Institute for O								
 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 sensitization 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. R61 May cause harm to the unborn child. R62 Possible risk of impaired fertility. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapors may cause drowsiness and dizziness. R68 Possible risk of irreversible effects. 								
REVISION SUMMARY:	Revised 6/19/2013							
by the manufacturer of the product ar information is current, applicable and s proximately caused by the material if responsibility for injury caused by abno		product. Users are advis assumes no responsibility d to as stipulated in the c	culatior ed to for inj lata sh	ns are based on information furnished confirm in advance of need that jury to vendee or third persons neet. Furthermore, vendor assumes no				