

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 15 mm Bird Banger Cartridges with Blank Primers

GENERAL USE: Pest control devices

PRODUCT DESCRIPTION: Cylindrical device containing explosive pyrotechnic composition in a cardboard casing.



DISTRIBUTOR'S NAME Reed-Joseph International Company	DATE PREPARED: May 10, 2007 SUPERSEDES: June 18, 2002	Page 1 of 4
ADDRESS (NUMBER, STREET, P.O. BOX) P.O. Box 894	TELEPHONE NUMBER FOR INFORMATION (662) 335-5822	
(CITY, STATE AND ZIP CODE) Greenville, MS 38702	COUNTRY USA	EMERGENCY TELEPHONE NUMBER ChemTel Inc. 1- (800) 255-3924 Intl. + 01 (813) 248-0585
MANUFACTURER'S NAME ABA Pyrotechnik, GmbH		
ADDRESS (NUMBER, STREET, P.O. BOX) IM Steinbruch 1	TELEPHONE NUMBER FOR INFORMATION Not specified	
(CITY, STATE AND ZIP CODE) Marienmunster 37696	COUNTRY Germany	EMERGENCY TELEPHONE NUMBER Not specified

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	%	OSHA PEL		ACGIH TWA		SARA TITLE III	RQ LBS
			PPM	MG/M3	PPM	MG/M3		
Pyrotechnic composition contained in casing: (a)		not specified						
Potassium perchlorate	7778-74-7			not established				
Aluminum (fume or dust) (b)	7429-90-5		15		10		Yes	
Potassium nitrate (c)	7757-79-1			not established			Yes	
Sodium nitrate (c)	7631-99-4			not established			Yes	
Sulfur, precipitated	7704-34-9		15					
Carbon black (d)	1333-86-4		3.5					

(a) Also contains Black Powder which consists of potassium nitrate or sodium nitrate, sulfur, charcoal (carbon) and graphite (carbon)

(b) A "Yes" in the SARA TITLE III column in Section 2 indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

(c) This product is subject to SARA section 313 reporting requirements - nitrate compounds (water dissociable).

(d) California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986, chemicals known to the state to cause cancer or reproductive toxicity. A person in the course of doing business must warn others who may consume, come into contact with, or otherwise be exposed to this chemical.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Pest control pyrotechnics are specialized explosive devices used to disperse nuisance birds and wildlife without injuring them. Common types include Screamer Siren or Bird Banger cartridges fired from a launch pistol. All of these contain pyrotechnic compositions and must be handled with extreme care to prevent injury or damage to property. All pyrotechnics, including those with fuses, are regulated by state and local laws and by stringent federal controls. This item is classified as 1.4E Explosive by Department of Transportation. No chemical composition is exposed during normal handling and storage. All pyrotechnic composition is contained in a cardboard casing. In the event of a vehicle fire or intense heat that reaches the cargo area, devices are likely to ignite, spreading burning articles over a limited area.

POTENTIAL HEALTH EFFECTS

INHALATION: None expected

SKIN: None expected, however, serious complications may occur by contact as the result of an explosion of the item in the vicinity of a person.

EYES: Physical contact of the product as sold with eyes may cause irritation. Serious complications may occur by contact as the result of an explosion of the item in the vicinity of a person.

INGESTION: May cause gastric distress, stomach pains, vomiting and diarrhea.

CARCINOGENICITY NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: 15 mm Bird Banger Cartridges with Blank Primers
May 10, 2007

Page 2 of 4

SECTION 4 - FIRST AID MEASURES

INHALATION: Not expected to create a hazardous situation.

SKIN: Wash contacted area with soap and water; if irritation persists, seek medical attention. In the event of accidental explosion causing harm to a person, immediate medical treatment must be obtained.

EYES: Check for and remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention. In the event of accidental explosion causing harm to a person, immediate medical treatment must be obtained.

INGESTION: Give two glasses of water for dilution; DO NOT induce vomiting; never give anything by mouth to an unconscious person; seek medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED)

Explosive in fire-related environment > 300° F

FLAMMABLE LIMITS

LEL: Not applicable

UEL: Not applicable

AUTOIGNITION TEMPERATURE:

Not determined

NFPA CLASS: A 1.3

GENERAL HAZARDS: Pest control devices are not a hazard if handled and stored properly. Explosive in the event of fire. Can be fatal if misused. In case of vehicle cargo fire, firefighters should retreat and use unmanned hose holder to direct water spray on fire. For truck fire not involving cargo area, disconnect cargo trailer if possible without risk. All non-emergency personnel should be immediately removed from the area.

EXTINGUISHING MEDIA

Flood with water if a small amount of pest control items are involved. If a large amount of pest control devices are involved, allow them to burn while preventing spread of fire. Do not use suffocation methods, devices contain their own oxygen.

FIRE FIGHTING PROCEDURES

Do not use suffocation methods, devices contain their own oxygen.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Pest control devices burn rapidly in event of fire.

HAZARDOUS COMBUSTION PRODUCTS

Smoke, fumes or vapors; oxides of carbon, nitrogen and sulfur may be produced in a fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: No smoking or open flames should be in the vicinity of the spilled material. Carefully pick up and place spilled items in cardboard fiber cartons. Sweep up any exposed chemical composition with natural fiber brush.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: No smoking or open flames should be in the vicinity of the material. Keep shipping containers in cool, dry place. Keep this and other chemicals out of reach of children.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS

The use of local exhaust ventilation and airborne particle collection is recommended if chemical composition is exposed. No other special controls are indicated.

PERSONAL PROTECTION:

RESPIRATORY PROTECTION: None required

PROTECTIVE GLOVES: Recommended for general protection

EYE PROTECTION: Safety glasses recommended for general protection Refer to 29 CFR 1910.133 or European Standard EN166.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyewash station nearby.

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

MATERIAL SAFETY DATA SHEET				
PRODUCT NAME: 15 mm Bird Banger Cartridges with Blank Primers May 10, 2007				Page 3 of 4
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES				
VAPOR PRESSURE Not applicable		VAPOR DENSITY (AIR = 1) Not applicable		
SPECIFIC GRAVITY (WATER = 1) Not specified		EVAPORATION RATE (Water = 1) Not applicable		
SOLUBILITY IN WATER Negligible, however, water contact may deteriorate contents		FREEZING POINT Not applicable		
pH Not applicable		APPEARANCE AND ODOR Cylindrical device containing explosive pyrotechnic composition.		
BOILING POINT Not applicable		PHYSICAL STATE Solid		
VISCOSITY Solid		VOLATILE ORGANIC COMPOUNDS (Total VOC's) None		
SECTION 10 - STABILITY AND REACTIVITY				
STABILITY UNSTABLE: STABLE: X		CONDITIONS TO AVOID: Avoid exposure to sparks, fire or flame. Exposure to water may cause items to deteriorate.		
INCOMPATIBILITY (MATERIALS TO AVOID): None				
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, nitrogen and sulfur, hydrocarbons, fumes or vapors, and smoke may be produced.				
HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: X		CONDITIONS TO AVOID: None		
SECTION 11 - TOXICOLOGICAL INFORMATION				
Hazardous Ingredients	CAS #	EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Pyrotechnic composition contained in casing: (a)				
Potassium perchlorate	7778-74-7	231-912-9	Not established	Not established
Aluminum (fume or dust) (b)	7429-90-5	231-072-3	Not established	Not established
Potassium nitrate (c)	7757-79-1	231-818-8	3750 mg / kg Oral - rat	Not established
Sodium nitrate (c)	7631-99-4	231-554-3	1267 mg / kg Oral - rat	Not established
Sulfur, precipitated	7704-34-9	231-722-6	> 5000 mg / kg Oral - rat	> 9.23 mg / l / 4H Inhalation - rat
Carbon black (d)	1333-86-4	215-609-9	440 mg / kg Intravenous - mouse	Not established
SECTION 12 - ECOLOGICAL INFORMATION				
No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. None of the ingredients in this mixture are classified as a Marine Pollutant.				
SECTION 13 - DISPOSAL CONSIDERATIONS				
WASTE DISPOSAL METHOD: Completely immerse product in water then dispose of in accordance with local, state, and federal regulations. Do not discard items into any publicly accessible container. Refer to 40 CFR 260 - 299 for complete waste disposal regulations. Consult your local, state, or federal agency before disposing of any chemicals.				
SECTION 14 - TRANSPORT INFORMATION				
PROPER SHIPPING NAME: Articles, explosive, n.o.s. (Bird scaring cartridges) (See Note below)				
DOT Reference Number: EX2002060168				
DOT HAZARD CLASS / Pack Group: 1.4E / II		IATA HAZARD CLASS / Pack Group: 1.4E / II		
REFERENCE: 49 CFR 173.62		IMDG HAZARD CLASS: 1.4E / II		
UN / NA IDENTIFICATION NUMBER: UN 0471		RID/ADR Dangerous Goods Code: 1.4E / II		
LABEL: EXPLOSIVES 1.4E		UN TDG Class / Pack Group: 1.4E / II		
HAZARD SYMBOLS: E		Hazard Identification Number (HIN): Not applicable		
Note: This classification is only valid when the explosive articles are packaged as follows: Inner Packaging - Trays, expanded plastic, each containing not more than ten (10) pyrotechnic articles. Intermediate Packaging - Receptacles, fiberboard, each containing not more than five (5) layers of inner packagings separated with not less than 2 mm thickness of fiberboard sheeting. Outer Packaging - Specification 4G fiberboard box, each containing not more than twenty (20) intermediate packagings which are separated from one another with cardboard dividers not less than 5 mm in thickness.				

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: 15 mm Bird Banger Cartridges with Blank Primers
May 10, 2007

Page 4 of 4

SECTION 15 - REGULATORY INFORMATION

TSCA (Toxic Substance Control Act)

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

SARA TITLE III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories

Fire hazard, immediate health

313 Reportable Ingredients:

(b,c) Indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CERCLA (Comprehensive Response Compensation and Liability Act)

None

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

There is a reportable chemical present (Carbon) known to the state of California to cause cancer or reproductive toxicity.

CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: Excluded from WHMIS legislation (Pest control)

IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

EC Risk Phrases

R2 Risk of explosion by fire or other sources of ignition.
R44 Risk of explosion if heated under confinement > 300° F.

SYMBOL(S) REQUIRED FOR LABEL

Explosive



EC Safety Phrases

S1/2 Keep locked up and out of reach of children.
S16 Keep away from sources of ignition - No smoking.

SECTION 16 - OTHER INFORMATION

Specific toxicity tests have not been conducted on this product. Our hazard evaluation is based on Information from similar products, the ingredients, technical literature, and/or professional experience.

HMIS HAZARD RATINGS

HEALTH

1

* = Chronic Health Hazard

2 = MODERATE

FLAMMABILITY

3

0 = INSIGNIFICANT

3 = HIGH

PHYSICAL HAZARD

0

1 = SLIGHT

4 = EXTREME

PERSONAL PROTECTIVE EQUIPMENT

B

Safety Glasses, Gloves

REVISION SUMMARY:

This MSDS has been revised in the following sections:

Complete format configuration

MSDS Prepared by: ChemTel Inc.
1305 N. Florida Ave.
Tampa, Florida USA 33602
(888) 255-3924 Intl. 01+ (813) 248-0573 www.chemtelinc.com



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.