MSDS
MATERIAL SAFETY DATA SHEET

WASP™
MODEL 1222
LESS-LETHAL IMPACT PROJECTILE

MSDS Date: 01 / 01 / 2007
Product Name: WASP™ Impact Projectile
Manufacturer: CQB® Supply, Inc.

Section 1: Product and Company Identification

Company Identification:
CQB Supply, Inc.
234 Morrell Road
Suite 360
Knoxville, TN 37919-5876

For Product Information: 615-467-4402

Proper Name or Synonym: Cartridge for Weapons, Inert Projectile

Hazard Class: 1.4S

Code Number: 1222

MSDS Number: 010107

Section 2: Component Identification

Component	CAS Number
PROJECTILE:	
Polyisobutylene-polystyrene (PIB-PSt)	None
SMOKELESS POWDER:	
Nitroglycerin	0053-63-0
Diphenylamine	0122-39-4
PRIMER:	
Lead Styphnate	15245-44-0
Barium Nitrate	10022-31-8

Section 3: Hazards Identification

EMERGENCY OVERVIEW: DANGER!

TO PERFORM IN A GUN, POWDERS MUST IGNITE EASILY AND BURN RAPIDLY. THESE CHARACTERISTICS REQUIRE USE OFCOMMON SENSE TO AVOID ACCIDENTS. YOU MUST OBSERVE THESE PRECAUTIONS.

Extremely flammable

Accidental fire or explosion is likely to cause severe injury or death.

Inhalation of dust or vapor can cause severe headache.

Absorption through the skin can cause sever headache.

Ingestion may cause severe headache, nausea, vomiting, abdominal pain, fatigue, diarrhea, trembling, ringing in the ears, and salivation.

Prolonged or repeated exposure may aggravate anemia or glaucoma.

May cause an allergic skin reaction and/or sensitization in susceptible individuals.

Section 4: First Aid Procedures

This product is composed of a finished metal alloy cartridge containing various components completely sealed within. Under normal handling of this product, exposure to harmful materials will NOT occur.

Eyes:	Remove contact lenses. Hold eyelids apart. Immediately flush eyes with copious amounts of low-pressure water for 15 minutes.
Skin Exposure:	Wash thoroughly with soap & water. Remove contaminated clothing and wash thoroughly before reuse.
Inhalation:	Move to fresh or moving air. Provide artificial respiration. If breathing is difficult, give oxygen and immediately call EMS.
Ingestion:	If conscious, drink large quantities of water. Induce vomiting. Call a physician or poison control center immediately. NEVER give anything by mouth to an unconscious person. NEVER induce vomiting in an unconscious person.

Section 5: Fire Hazards

Fire Fighting Procedures:
Evacuate area immediately. DO NOT fight fire.

Extinguishing Media:
Deluge with large quantities of water as quickly as possible by automatic sprinklers or fire hose from a protected location. Product is self-oxidizing.

Conditions to Avoid:
Avoid impact, friction, heat, sparks, or flame.

Hazardous Combustion Products:
If heated to combustion, the following substances may be formed: carbon monoxide, carbon dioxide, nitrogen, water, hydrogen, nitrogen oxides, methane, aldehydes, carboxylic acids, and hydrogen cyanide.

Auto-ignition:
Passes MIL-STD-286C, para.404.1.2 No Explosion – 5 hours at 120°C (248°F).

Section 6: Accidental Release Measures

Clean up spill immediately using soft natural bristle brush and conductive rubber or conductive plastic shovel. Use caution; material is sensitive to initiation from sources such as heat, flame, shock, friction, or sparks.

In case of accidental spill or release, refer to Section 8, Personal Protective Equipment and General Hygiene Practices.

Section 7: Handling and Storage

Follow appropriate DOD, NFPA, and BATF, explosive safety measures. Local ordinances may apply.

DO NOT pressurize or expose containers to heat, flame sparks, static electricity, or other sources of ignition.

For handling and storage requirements, see 29 CFR 1910.109. Store in a cool, dry place: approximately 68°F (20°C). Store only in Department of Transportation (DOT) approved containers. Check old product often for deterioration.

Section 8: Exposure Controls / Personal Protection

General Hygienic Practices:
Avoid contact with eyes, skin, and clothing.
Avoid breathing, dust, vapor or mist.
Wash thoroughly after handling, and before eating, drinking, or smoking.
Avoid contamination of food, beverages, or smoking materials.
Remove contaminated clothing promptly and clean thoroughly before reuse.
Discard contaminated leather articles.

Recommended Exposure Limits:
Hazardous Component Wt. % Limit Basis
Nitroglycerin 4.0 - 40.0 0.1 mg/m3 OSHA STEL
0.46 mg m3 ACGIH TLV
Diphenylamine 0.5 – 1.0 10 mg/m3 ACGIH TLV

Personal Protective Equipment:
Safety glasses
Impervious gloves
Appropriate respiratory protection is required when exposure to airborne contaminants may exceed acceptable limits. Respirators should be selected and used in accordance with OSHA, Subpart I (29 CFR 1910.134) and manufacturers recommendations.
Flame retardant clothing
Wear conductive safety shoes.

Work Practices and Engineering Controls:
Do NOT smoke in areas where gun powder is stored or used.
Material is shock sensitive. Use care in handling.
Keep away from ignition sources. Friction can cause ignition.
Eyewash fountains and safety showers should be easily accessible.
Prevent build-up of static electric charges.
Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Protective Measures During Repair and Maintenance:
Eliminate ignition sources and prevent build-up of static electric charges.
Use spark-proof tools and explosion-proof equipment.
Wetting work area with water will greatly reduce hazards.
Completely remove product from area, and thoroughly clean all equipment, piping, or vessels before beginning maintenance repairs.

Section 9: Physical and Chemical Properties

Volatile (Wt.) %: negligible at 20°C
Solubility in Water: negligible at 20°C
Specific Gravity: 1.5 (approximate)
Vapor Pressure: negligible at 20°C

Section 10: Stability and Reactivity

General Stability Considerations:
Stable under recommended handling and storage conditions.

Incompatible Materials:
Incompatible with: acids, oxidizing agents, alkalis and amines and strong sunlight or ultraviolet light.

Hazardous Decomposition Products:
None anticipated under normal or recommended handling and storage conditions.

Hazardous Polymerization:
Not anticipated under normal or recommended handling and storage conditions.

Section 11: Toxicological Information

Reported Human Effects:
No human toxicity studies have been carried out with this product.

COMPONENT - Nitroglycerin: The following effects have been reported following medicinal usage or over dosage: Faintness, skin flush, palpitation, rapid heart beat, dizziness, abdominal pain, retrosternal discomfort, muscle twitches, Heinz bodies, methemoglobinemia, depression, confusion, skin irritation, and allergic reaction. Alcohol may intensify effects.

COMPONENT – Diphenylamine: Excessive exposure to the dust by inhalation has been reported to cause bladder damage rapid heart beat, increased blood pressure and skin rash.

Reported Animal Effects:
No animal toxicity studies have been carried out with this product.

COMPONENT - Nitroglycerin: Methemoglobinemia and fibrous tissue formation in the bile ducts were seen at very high doses (many times the TLV). Testicular effects were seen in rates dosed for three (3) months at very high doses (many times the TLV). In lethal dose determinations in rats dosed for three (3) months rapid breathing, poor muscle tone, raised hair, and excessive activity were seen.

COMPONENT – Diphenylamine: Reported to cause adverse liver, kidney, and spleen changes and anemia in long-term rat feeding studies at up to 1% in the diet. Dietary levels of 0.5% in male and female rats for two (2) generations caused no reproductive or teratogenic effects, but did cause decreased litter sizes.

Carcinogenicity Information:
Not listed as a carcinogen by NTP; not regulated as a carcinogen by OSHA; and not evaluated by IARC.

Reproductive Effects:
No studies on reproductive effects have been carried out with this product.

Mutagenicity / Genotoxicity Information:
No mutagenicity studies have been carried out with this product.

Section 12: Ecological Information

Ecotoxicity:
No ecological studies have been carried out with this product.

Section 13: Disposal Considerations

Waste Disposal Methods:
Disposal of explosives should be carried out under the direct supervision of a qualified person(s).

For industrial disposal, federal hazardous waste regulations allow open burning of explosive wastes in permitted facilities. Burn in the open in an isolated location in small, shallow piles not over one (1) inch deep. Stay upwind. DO NOT breathe products of combustion. State and/or local regulations may be more stringent than federal regulations.

For disposal of small quantities, contact state or local environmental agencies for options.

Section 14: Transportation Information

Transportation of this material must be in accordance with the hazardous material regulations of the U.S. Department of Transportation.

Section 15: Regulatory Information

Chemical Inventories:
U.S. TSCA Status: Included on TSCA inventory.

SARA Title III:

Sections 302 and 304:
Component Wt. % RQ (Lbs.)
Nitroglycerin 4.0 – 40.0 10

Sections 311 and 312:
HC-1: Acute health hazard
HC-2: Chronic health hazard
HC-3: Fire hazard
HC-4: Sudden release of pressure hazard
HC-5: Reactive hazard

Section 313:
Component Wt. %
Nitroglycerin 4.0 – 4.0

CERCLA:
Component Wt. % RQ (Lbs.)
Nitroglycerin 4.0 – 40.0 10

RCRA:
This product exhibits the following characteristics listed in 40CFR261, Subpart C: ignitability and reactivity

Section 16: Other Information

List of Acronyms:

ACGIH:	American Conference of Governmental Industrial Hygienists
AICS:	Australian Inventory of Chemical Substances
AIHA WEEL:	American industrial Hygienists Association – Workplace Environmental Exposure Level
ANSI:	American National Standards Institute
BATF:	Bureau of Alcohol, Tobacco, and Firearms
C:	Ceiling
CASRN:	Chemical Abstract Service Registry Number
DOD:	Department of Defense
DSL:	Domestic Substances List (Canadian)
EINECS:	European Inventory of Existing Commercial Chemical Substances
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
MITI:	Ministry of International Trade and Industry (Japanese)
N/A:	Not Applicable
NDSL:	Non-Domestic Substances List (Canadian)
NFPA:	National Fire Protection Association
NOR:	Not Otherwise Regulated
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit (OSHA)
RCRA:	Resource Conservation and Recovery Act
RQ:	Reportable Quantity
SARA:	Superfund Amendment Reauthorization Act
STEL:	Short-Term Exposure Limit
TLV:	Threshold Limit Values® (registered trademark of ACGIH)
TPQ:	Threshold Planning Quantity
TSCA:	Toxic Substances Control Act
TWA:	Time Weighted Average

The information and recommendations contained in this Material Safety Data Sheet (MSDS) have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty and/or guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must determine what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental compliance obligations under any applicable federal or state laws.