



SAFETY DATA SHEET

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Cartridge, Blank, 5.56mm M200, 7.62 M82, .30 CAL M1909, & .50 CAL M1A1

SECTION 1. IDENTIFICATION

Product: Cartridge, Blank, 5.56mm M200, 7.62 M82, .30 CAL M1909, & .50 CAL M1A1

Company's Name: Alliant Techsystems Operations, LLC
Company's Street: PO Box 1000
Company's City: Independence
Company's State: MO
Company's Country: US
Company's Zip Code: 64051
Company's Info Ph #: (816) 796-7488

Transportation Accidents Call CHEMTREC: 1-800-424-9300

Warning: Ammunition is intended for use only by properly trained and qualified persons in compatible, properly maintained weapons. Any other use may result to damage to weapons and equipment or injury to the user. When fired, bullets exit the weapon at lethal velocity.

SECTION 2. HAZARDS IDENTIFICATION

CLASSIFICATION: EXPLOSIVE

SIGNAL WORD: WARNING

PICTOGRAM:



PRECAUTIONARY STATEMENT: KEEP AWAY FROM HEAT

INGREDIENTS OF UNKNOWN TOXICITY: 0%

HAZARDS NOT OTHERWISE CLASSIFIED: N/A

SECTION 3. INGREDIENTS

HAZARDOUS INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS
Case (see below)		
Brass	NE	NE
Propellant (see below)		
Nitrocellulose	9004-70-0	NE
Nitroglycerin	55-63-0	PEL (C) 0.2 ppm/ 2 mg/m ³ , TLV 0.05 ppm



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Graphite	7782-42-5	PEL (T) 15 3 mg/m ³ /(R) 3 mg/m ³ , TVL (R) 2 mg/m ³
Primer Composition (see below)		
Lead Styphnate	15245-44-0	PEL 50 µg/m ³ , TLV 0.05 mg/m ³ (As inorganic lead)
Barium Nitrate	10022-31-8	PEL 0.5 mg/m ³ , TVL 0.5 mg/m ³ (As Barium)
Antimony Sulfide	1345-04-6	PEL 0.5 mg/m ³ , TLV 0.5 mg/m ³ (As Antimony)
PETN (Pentaerythritol Tetranitrate)	78-11-5	
Aluminum powder	7429-90-5	PEL (T) 15 mg/m ³ /(R) 5 mg/m ³ , TVL (Metal dust) 10 mg/m ³ /(Pyro powders) 5 mg/m ³
Gum Arabic	9000-01-5	NE
Calcium Silicide	12013-56-8	NE
Tetracene	7440-02-2	NE
Magnesium Oxide	1309-48-4	PEL (Fume) 15 mg/m ³ , TLV 10 mg/m ³
Brass	N/A	NE

NE: None Established

LEAD MAY BE RELEASED DURING FIRING OF AMMUNITION. CARE SHOULD BE TAKEN IN CLEANING OF RANGE FACILITIES MINIMIZE EXPOSURE TO LEAD. PERSONS ENGAGED IN THESE ACTIVITIES SHLD WEAR PROT CLTHG W/ APPROP NIOSH/ MSHA APPRVD RESP. RANGE OPERATORS SHOULD CONSULT OSHA 1910.1025 FOR DETAILS PERTAIN TO HNDLG LEAD IN WORK ENVIRONMENT.

SECTION 4. FIRST-AID MEASURES

Eyes: Move to fresh air. If a foreign body is suspected, flush eyes with water for a minimum of 15 minutes. Get Medical Attention.

Skin: Wash hands thoroughly with soap and water. Get medical attention.

Inhalation: Move to fresh air. If breathing has stopped, administer artificial respiration and get medical attention. If chronic symptoms should appear get medical attention.

Ingestion: Get Medical Attention.

SECTION 5. FIRE-FIGHTING MEASURES

Flash Point: NOT APPLICABLE

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

Extinguishing Media: WATER.

Special Fire Fighting Procedures: USE NIOSH/MSHA APPROVED SCBA & FULL PROT EQUIP (FP N). USE WIDE FOG PATTERN NOZZ TO REDUCE ANY LOW VELOCITY FRAGMENTS. USE WATER TO COOL ORDINARY COMBUSTIBLES

Unusual Fire And Explosive Hazards: **MAY IGNITE IF HEATED TO 250F INDEPENDENT OF AIR. UNCONFINED IGNITED CARTRIDGES CAN PRODUCE LOW VELOCITY METALLIC FRAGMENTS WHICH MAY CAUSE EYE INJURY**



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SECTION 6. ACCIDENTAL RELEASE MEASURES

Steps If Material Released/Spill: Avoid conditions detailed in reactivity data section. If container should rupture, place all loose cartridges from broken shipping cases into a sturdy container and secure container carefully.

Neutralizing Agent: None

SECTION 7. HANDLING AND STORAGE

Waste Disposal Method: CONTACT MANUFACTURER. DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS (FP N).

Precautions-Handling/Storing: STORE IN DRY, COOL AREA IN ORIGINAL CONTAINER TO ASSURE PERFORMANCE. KEEP OUT OF REACH OF CHILDREN. AVOID STRIKING THE PRIMER OF UNCHAMBERED CARTRIDGES.

Other Precautions: REMOVE AMMUNITION FROM SERVICE IF ANY OF FOLLOWING CONDITIONS HAVE OCCURED: PROLONGED STORAGE AT OR ABOVE 200F, EVIDENCE OF CORROSION, PHYSICAL DAMAGE, EXPOS TO OIL/SPRAY TYPE LUBRICANTS.

SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Respiratory Protection: USE NIOSH/MSHA APPROVED LEAD DUST/FUME RESPIRATOR WHILE CLEANING RANGE FACILITIES. CONSULT OSHA 1910.1025 FOR EXACT REQUIREMENTS.

Ventilation: USE IN WELL VENTILATED AREA. INDOOR SHOOTING RANGES SHOULD MAINTAIN AN AIR FLOW OF 20 CFM/SQ FT OF CROSS SECTIONAL AREA.(ING 22)

Protective Gloves: IMPERVIOUS GLOVES (FP N).

Eye Protection: SAFETY GOGGLES (FP N).

Other Protective Equipment: HEARING PROTECTION RECOMMENDED WHEN FIRING. IT SHOULD HAVE AN EPA-NRR OF 20 OR GREATER.

Work Hygienic Practices: WASH HANDS THOROUGHLY WITH SOAP & WATER BEFORE EATING OR SMOKING.

Supplemental Safety & Health Data: APPEAR/ODOR: COPPER CLAD LEAD BULLET. NO ODOR. FIRE FIGHTING PROCEDURE: BELOW IGNITABLE TEMP. EXPLO HAZ: OR SUPERFICIAL SKIN WOUNDS IF UNPROT BY STD FIRE-FIGHTER TURNOUT GEAR. EFFECTS OF OVEREXP: CHRONIC-CHRONIC OVEREXP TO LEAD MAY RSLT IN DEPRESSED HEMOGLOBIN LEVELS, HEADACHES, FATIGUE & WEIGHT LOSS, W/ELEVATED BLOOD LEAD/ZPP LEVELS.

SECTION 9. PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance	BRASS CASE
Explosive Limits	NA
Odor	NA
Vapor Pressure	NA
Odor Threshold	NA
Vapor Density	NA
pH	NA
Relative Density	>1
Melting Point	NA
Solubility	NA
Boiling Point	NA



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Flash Point	NA
Evaporation Rate	NA
Flammability	NA
Partition coefficient: n-octanol/water	NA
Auto-Ignition Temperature	NA
Decomposition Temperature	N/A
Viscosity	NA

SECTION 10. STABILITY AND REACTIVITY

Stability: Yes

Conditions to Avoid (Stability): Stable under normal conditions. Individual cartridges may ignite if primer is struck, if primer comes into contact with electricity, or if cartridge is exposed to extreme heat.

Materials to Avoid: Incompatible with acids, alkalis, ammonia, and other corrosive materials.

Hazardous Decomposition Products: Oxidizers of barium, carbon, sulfur or antimony fume may be produced.

Hazardous Poly Occur: No

Conditions to Avoid (Poly): None specified by Manufacturer.

SECTION 11. TOXICOLOGICAL INFORMATION

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: NO

Route Of Entry - Ingestion: YES

Health Hazard Acute And Chronic: INHAL: ACUTE-INHAL OF SMOKE MAY PRDCE MILD THROAT/EYE IRRIT. CHRONIC-PRLNG/RPTD OVEREXP TO FIRED CARTRIDGE GASSES & PARTICULATES MAY RSLT IN ELEVATED BLOOD LEAD LEVELS. SYMP OF CHRONIC OVEREXP TO LEAD MAY INCL ELEVATED BLOOD LEAD LEVELS, ELEVATED ZPP, WEIGHT LOSS, HDACH, DEPRESSED HEMOGLOBIN, & FATG. (EFTS OF OVEREXP)

Carcinogenicity - NTP: YES, IARC: YES, OSHA: NO

Explanation Carcinogenicity: LEAD: GROUP 2B (IARC). NICKEL: GROUP 2B (IARC), GROUP 2 (NTP).

Signs/Symptoms Of Over Exposure: HLTH HAZ: SKIN:ACUTE/CHRONIC-LEAD IS NOT ABSORB THRU SKIN. EYES:ACUTE-CONT W/LG VOL OF SMOKE MAY CAUSE MINOR IRRIT. CHRONIC-NONE REPORTED. INGEST:ACUTE-ACCIDENTAL INGEST OF LEAD MAY OCCUR FROM POOR PERSONAL HYGIENE ASSOC W/HNDLG OF LEAD BEARING MATLS. MAY RSLT IN ABDOM CRAMP/FATG/ CONSTIP & DISTURB OF SLEEP.(SUPP DATA)

Medical Conditions Aggravated By Exposure: EXPOSURE TO LEAD MAY AGGRAVATE ANEMIA. PERSONS TAKING BISMUTH CONTAINING MEDICATIONS SHOULD CONSULT W/THEIR MEDICAL PROVIDED PRIOR TO ROUTINE EXPOSURE TO AIRBORNE, RESPIRABLE LEAD.

SECTION 12. ECOLOGICAL INFORMATION

No Data Available

SECTION 13. DISPOSAL CONSIDERATIONS



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UNUSED CARTRIDGES SHOULD BE DISPOSED OF BY INCINERATION IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION 14. TRANSPORTATION INFORMATION

Transportation and storage must be in accordance with, local, state, and federal regulations.

Proper Shipping Name	UN Number	Hazard Classification	Packing Group
Cartridges, Small Arms, Blank	UN0338	1.4C	II
Cartridges, Small Arms, Bank	UN0014	1.4S	II

SECTION 15. REGULATORY INFORMATION

No Additional Information

SECTION 16. OTHER INFORMATION

THE INFORMATION IN THIS SAFETY DATA SHEET SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT.

“To the best of our knowledge the information contained herein is correct. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the product is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the product is used safely.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS.”

ORBITAL ATK LAKE CITY ARMY AMMUNITION PLANT MSDS CONTROL GROUP

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FOR ALL TRANSPORTATION ACCIDENTS CALL CHEMTREC AT 1-800-424-9300

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