



MATERIAL SAFETY DATA SHEET



SECTION 4 - FIRST AID MEASURES

EFFECTS OF OVEREXPOSURE: UNKNOWN

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation - Remove to a well ventilated area. If breathing difficulties persist seek medical help.

Ingestion - Do not induce vomiting. Drink large amounts of water or milk. Give liquid activated charcoal and seek medical attention.

Skin - Wash effected area with soap and rinse with large amounts of water. Launder contaminated clothing before reuse.

Eyes - Flush with copious amounts of clean or buffered water for at least 15 minutes. Seek medical attention immediately.

SECTION 5 - FIRE-FIGHTING MEASURES

FLASH POINT: Not Established **LEL:** Not Available

EXTINGUISHING MEDIA: Water - Deluge with water to cause a mass cooling.

UNUSUAL FIRE & EXPLOSION HAZARDS: System contains its own oxygen and fuel. May explode when subject to extreme heat or shock. Will release NO_x

SPECIAL FIRE FIGHTING PROCEDURES: DO NOT FIGHT AN ESTABLISHED FIRE.
Clear area and allow to burn out.



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SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Gather up spilled cartridges and wash any contaminated area with water.

WASTE DISPOSAL METHOD:

Place down a blast hole prior to detonation; to be utilized as part of the blast.
May be burned in a shallow layer on barren ground in accordance with federal, state and local regulations.

SECTION 7 - HANDLING AND STORAGE

DURING HANDLING AND STORAGE:

Comply with regulations and precautions for "Blasting Agent, n.o.s." classification by regulatory agencies. Wear chemical resistant gloves and boots.

OTHER PRECAUTIONS:

May cause shrinkage of leather shoes and gloves, avoid contact; slightly corrosive to ferrous metals.

SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

RESPIRATORY: Dust/Mist Mask is advisable

VENTILATION: Ambient

GLOVES: Chemical resistant

EYE: Safety Glasses or Goggles

OTHER PROTECTIVE EQUIPMENT: None required.

THRESHOLD LIMIT VALUE: Nitrogen dioxide = 3 ppm
Nitrous oxides = 25 ppm



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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE: N/A

MELTING POINT: N/A

VAPOR DENSITY: N/A

DENSITY: 1.15 - 1.25

EVAPORATION RATE: N/A

PERCENT VOLATILE BY VOLUME: N/A

SOLUBILITY IN WATER: NO

APPEARANCE AND ODOR:

Gel ; odor of fuel or mineral oil; Yellow to rust in color, with ammonium nitrate prill throughout mix. Packaged in 1.5 to 3 inch polyethylene cartridges tubes and/or 3.5 to 9 inch woven polypropylene shot bags with polyethylene liner.

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: High heat in a confined area.

HAZARDOUS DECOMPOSITION PRODUCTS: NO₂, NO_x, CO₂, Ammonia

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 - TOXICOLOGICAL DATA

ACUTE TOXICITY: Not Established

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not Established



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SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: The contaminated material is to be placed down a borehole to be utilized as part of the blast. If local regulations allow, it may be burned in a shallow layer on barren ground.

RCRA INFORMATION: Any other form of disposal of this product may be subject to RCRA regulations (40 CFR 261) due to the characteristic(s)/chemical(s) listed in section 2.

SECTION 14 - TRANSPORT INFORMATION

Regulatory classifications are as follows:

DOT: Blasting Agent **OSHA:** Blasting Agent **MSHA:** Blasting Agent

USA DOT:

SHIPPING NAME: Explosive, blasting, type E, UN0332

HAZARD CLASS AND DIVISION: 1.5D

ID NUMBER: UN0332

REFERENCE No.: EX-9008113

PACKING GROUP: II

DANGEROUS WHEN WET: NO

POISON: NO

LABEL(s): Blasting Agent

PLACARD(s): Blasting Agent 1.5D

PRODUCT RQ: N/A

NAERG NUMBER: 112

SECTION 15 - REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, and EINECS/ELINCS.

US Superfund Amendments and Reauthorization Act (SARA) Title III: This product is considered an "Extremely Hazardous Substance". This product also contains Ammonium Nitrate which is reportable to SARA (313) toxic release program.

SECTION 16 - OTHER INFORMATION

This product meets UN standards for Blasting Agent as outlined in TDG Manual of Tests and Criteria. Second Revised Edition.