



Unusual Fire and Explosion Hazards:

This product is an oxidizer, which will act to initiate and sustain the combustion of flammable materials. Ammonium nitrate can react explosively with powdered metals.

Explosion Sensitivity to Mechanical Impact	Not Sensitive
Explosion Sensitivity to Static Discharge	Not Sensitive

Special Fire-Fighting Procedures:

DO NOT FIGHT FIRES INVOLVING EXPLOSIVE MATERIALS. DO NOT FIGHT FIRES WHICH INVOLVE CONTAINERS OF THIS PRODUCT. If fire occurs, wear Self-Contained Breathing Apparatus. Withdraw from area and let fire burn. Remove all persons from the vicinity of the scene.

SECTION V – REACTIVITY DATA

Chemical Stability

Stable under normal environmental conditions.

Blasting Cap Sensitivity Test	Detonation with No. 8 blasting cap
Impact Sensitivity Test	Not Sensitive
Water Resistance	Not dissolved by water

Materials with which Material is Incompatible

This material is not compatible with some powdered metals, strong reducing agents, strong acids and flammable materials. No reaction with aluminum or stainless steel.

Hazardous Polymerization Will not occur

SECTION VI – TOXICOLOGICAL PROPERTIES OF THE MATERIAL

Symptoms of Over Exposure by Route of Exposure	This product is not expected to cause acute or chronic health effects under conditions of foreseeable use. Extended skin contact may cause very mild irritation that will quickly clear after the exposure ceases.
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Inhalation	This product is not likely to cause inhalation exposure.
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Contact with Skin or Eyes	Contact with the skin or eyes may cause irritation that will quickly be relieved upon rinsing the affected area.
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Skin Absorption	There is no evidence that this material absorbs through the skin.
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Ingestion	Ingestion is not anticipated to be a significant route of exposure. If ingestion occurs, there may be mild gastric distress that will be relieved as the material passes through the body. Symptoms of
Ingestion - continued	



gastrointestinal distress can include: stomach ache, nausea, vomiting, diarrhea, and an increase in urination.

Injection

Injection is not likely to occur, but may cause mild local irritation.

Effect of ACUTE Exposure

No acute effects are likely to occur after exposure to this product; however contact may lead to irritation of the affected tissue.

Effect of CHRONIC Exposure

No chronic health effects have been reported for this chemical; long-term exposure effects would be similar to those for acute exposure.

Toxicity Data

No toxicity data is available for this product. The following toxicity information is available for the components of this product.

Ammonium Nitrate
LD₅₀ (oral, rat) = 4820 mg/kg

Polyolefin Amino-Ester Salt
LD₅₀ (oral, rat) > 5000 mg/kg

Mineral Oil
None available

Suspected Cancer Agent

The product's ingredients are not found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA. None of these components are designated as human carcinogens.

Irritancy of Product

This product may be irritating to contaminated tissue.

Sensitization to the Product

No component of this product is known to be a sensitizing agent.

Reproductive Toxicity Information

Listed below is information concerning the effects of this product and its component on the human reproductive system.

Mutagenicity: This product is not expected to have mutagenic effects in humans.

Teratogenicity: This product is not expected to have teratogenic effects in humans.

Reproductive Toxicity: This product is not expected to have adverse reproductive effects in humans.

A mutagen is a chemical that causes permanent changes to the genetic material (DNA) such that the changes will propagate through generational lines. A teratogen is a chemical that causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance that interferes in any way with reproductive process.



Medical Conditions Aggravated by Exposure	No medical conditions are reported to be aggravated by exposure to this product.
Recommendations to Physicians	Treat symptoms.

SECTION VII – PREVENTIVE MEASURES

Hand Protection	Use appropriate gloves. Nitrile or neoprene gloves are adequate with the material. Check gloves for leaks. Wash hands after removing gloves.
Respiratory Protection	No respiratory protection should be needed when using this product. Use Self-Contained Breathing Apparatus during emergency response procedures.
Eye Protection	Splash goggles or safety glasses should be worn whenever handling this product.
Body Protection	Coveralls, apron or other body protection appropriate for the task.
Ventilation and Engineering Controls	Use with adequate ventilation. Use a mechanical fan or vent are to outside.
Other	Follow the Explosive Act & Department of Labour
Leak and Spill Procedure	Sweep or shovel (non sparking shovel) up and dispose in a blast hole, do not burn .
Waste Disposal	Use in blast
Handling Procedures and Equipment	Refer to Natural Resources Canada – Explosives Regulatory Division
Storage Requirements	Store only in an Approved & Licensed High Explosives Magazine
Special Shipping Information	UN0241 1.1D Explosive Packing Group II Blasting Type E – permit required from transportation with proper placards displayed on vehicle.

SECTION VIII – FIRST AID MEASURES

Skin Contact	Decontaminate with running water. Remove exposed or contaminated clothing, taking care not to contaminate eyes.
Eye Contact	Open victim's eyes while under gentle running water.



Use sufficient force to open eyelids. Have victim “roll” eyes. **Minimum** flushing is for **15 minutes**.

Inhalation

Remove victim to fresh air and use artificial respiration to support vital functions.

Ingestion

CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, induce vomiting. Never induce vomiting or give dilutents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow.

Victims of chemical exposure and all rescuers must be taken for medical attention. Take copy of label and MSDS to physician or health professional with victim.

SECTION IX – DATE OF M.S.D.S. (not a Technical Bulletin)

Prepared By

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February 2009

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