HELIX Activator
Material Safety Data Sheet

Section I - Company Information
Manufacturers Name: Omni Distribution, Inc. Explosive Products Division
Address: PO Box 171154
City, State, and Zip: Memphis, TN 38117
Contact Name: W.P. Nixon
Emergency Phone: Chem Tel: 800-255-3924
Other Info Call: 800-277-6664
Prepared Date: 28OCT2002

Section II - Hazardous Material(s) Identification
Hazardous Component(s) / Chemical & Common Name(s) Wt / % Exposure Limits CAS NO.
Aluminum 95-100%, OSHA 5mg/m3 respirable 15mg/m3 dust, ACGIH, 5mg/m3 fume 10mg/m3
7429-90-5
Proprietary Activator Mixture 0-5%
(May contain 0-5% of the following: Sodium Potassium Aluminum Silicate (Microballoons), Fumed Silica, Trimethyl Benzene, 1-Heptadecanecarboxylic Acid, N-Nonane, Aluminum Oxide, Carbon, PTFE)
Appearance: Gray paste with slight petroleum solvent odor. May be ignited by static discharge and burn at extremely high temp. Explosive when suspended in a dust-laden air cloud. Do not use H2O to clean spills. Use only non-sparking tools. Reacts violently with halogenated hydrocarbons and with oxidizers to produce heat. Aluminum is a nuisance dust.

Section III - Physical & Chemical Characteristics
Boiling Point: N/A Vapor Density (Air-1): N/A
Melting Point: N/A Percent Volatiles (Wt.%): ND
Vapor Pressure (mm Hg): N/A Specific Gravity (H2O=1): 2.7
Solubility in Water: Insoluble Evaporation Rate: N/A
Appearance and Odor: Gray Paste with slight petroleum solvent odor VOC=0.40

Section IV - Fire & Explosion Hazard Data
Flash Point: ND Method Used: NA Flammable Limits (Vol %): LEL 40mg/L UEL ND
Auto Ignition Temp: ND Extinguisher Media: Class D extinguishing media or dry sand. DO NOT use class A,B or C fire extinguishers.

Fire & Explosion Hazards: Explosive when suspended in a dust-laden air cloud.

Fire Fighting Procedures: Use only non-sparking tools. Aluminum dust may be ignited by static discharge and burn at extremely high temperature. In bulk form, it is ignited by static discharge with difficulty. Once suspended in a dust-laden air cloud, it is readily ignited and very explosive. Aluminum dust is explosive over a fairly wide range of loadings depending on particle size, surface area, and other factors.
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Section V - Reactivity Data / Physical Hazards

Stability: Stable under normal conditions of use
Conditions to avoid: Aluminum powder oxidizes when heated at a temperature dependent rate. It reacts violently with halogenated hydrocarbons and with oxidizers to produce heat. It reacts with water and slowly generates heat and hydrogen. Hydrogen gas forms from the reaction with some acids and alkalis.

Materials to avoid: Water, Mineral Acids such as nitric and sulfuric, strong oxidizing agents, alkalis, and halogenated compounds.

Hazardous Decomposition Products Carbon Dioxide, Carbon Monoxide, Aluminum Oxide

Hazardous Polymerization None

Section VI - Health Hazard Data

☐ Acute Hazard ☐ Chronic Hazard ☑ Irritant ☐ Corrosive ☐ Oxidizer ☐ Lachrymator ☐ Known Carcinogen ☐ Reproductive

Toxicity: This material is not known to be hazardous as defined by OSHA’s Highly Hazardous Process Safety Standard, 29CFR 1910.119. Not listed by OSHA, IARC, or NTP as carcinogen. Medical conditions Aggravated by exposure: Pre-existing upper respiratory and lung diseases.

Emergency & First Aid Procedures
Eyes: Immediately flush with water for 15 minutes. Seek medical attention if irritation persists. Skin: Wash with soap and water. Ingestion: Seek medical attention. Inhalation: Remove to fresh air.

Section VII - Special Protection Info

Respiratory Protection
If exposure limits (TLV’s PEL’s etc) are exceeded, use NIOSH/MSHA approved respirator for dusts, fume, mist.

Ventilation Local Exhaust: Mechanical: Special: Other: Aluminum dust may accumulate in ventilation ducts and cause explosion hazard.

Protective Gloves: As needed. Neoprene or nitrile.
Eye Protection Safety glasses, goggles, face shield as needed.

Other Protective Clothing or Equipment
If needed, recommend FR 8 or equivalent full length pants and jackets along with static conductive safety shoes.

Work/Hygienic Practices
Wash clothing separately. Do not dry in dryer. Use common sense precautions.

Omni Distribution, Inc.
800-277-6664

Explosive Products Division
Memphis, TN
Section VIII - Special Precautions

Storage & Handling: When handling, avoid creating a dust cloud and avoid static electricity. Store in original shipping containers and boxes. Keep tightly sealed. Avoid contact with water or moisture. Store in a cool, dry, secure location.

Other Precautions: This material, when discarded or disposed of is considered a hazardous waste as defined in 40 CFR Part 261 with hazardous waste number D001. Waste aluminum powder should be transported and disposed of by a licensed hazardous waste transportation and disposal company in accordance with all local, state and federal regulations.

Waste Disposal Methods: For disposal of this material as non-hazardous, consult state and local industrial solid waste regulations or contact their implementing authorities for guidance.

Material Spills/Release: Ecotoxicological info: Though undetermined, this product may cause adverse environmental effects. Avoid contact with stormwater, waterways.

Section IX - Miscellaneous

DOT Shipping Name: Aluminum Powder, Coated. 4.1 Flammable Solid, UN 1309, PG II.

SARA Title III: This product contains Aluminum in greater than de minimus quantities which are subject to the reporting requirements of Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372.

RCRA Status: This product is “ignitable” and therefore classified as a hazardous waste under RCRA with designation D001.

State Regulations:
California Proposition 65: This product does not contain materials which the State of CA has determined to cause cancer, birth defects, or other reproductive harm.
New Jersey: Aluminum Powder is listed on the EHSL.
Pennsylvania: Aluminum powder is listed as an environmental hazard.

International Regulations:
Canadian Environmental Protection Act: This product complies with the requirements of the Canadian Environmental Protection Act for shipment to Canada.
Canadian National Pollutant Release Inventory: Aluminum (dust or fume).
WHMIS Status: This product should be labeled and transported as a Class B, Division 4, Flammable Solid.