



American International Chemical, Inc.

Corporate Offices: (800) 238-0001

Internet: www.aicma.com Email: info@aicma.com

MATERIAL SAFETY DATA SHEET

AZODICARBONAMIDE

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc.	Emergency Number: Chemtrec	800-424-9300
135 Newbury Street		703-527-3887
Framingham, MA 01701	Information Number:	800-238-0001

Date: August 2007

Synonyms: 1,1'Azobisformamide, ABFA, ADC, Mikrofine, Unicell

CAS #: 123-77-3

DOT Hazard Class: UN3242, 4.1, PG II Flammable Solids
(Hazardous Classification only applies to International requirements)

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Azodicarbonamide 100%

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Yellow-orange powder with characteristic odor. Not considered a health hazard. May form explosive dust-air mixtures and will continue to burn once ignited (about 374 °F).

POTENTIAL HEALTH EFFECTS:

Skin: May cause skin irritation.

Eyes: May cause irritation or burning.

Inhalation: May cause irritation to the respiratory tract.

Ingestion: Not a hazard with normal industrial usage.

CARCINOGENICITY: Not listed under OSHA, IARC, or NTP.

SECTION 4 - FIRST AID MEASURES

Skin: Immediately wash skin with soap and water for at least 15 minutes.

Eyes: Immediately flush with plenty of water for at least 15 minutes, holding eye lids apart.

Inhalation: Remove to the fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: Wash out mouth with water.

On All Of The Above: Consult a physician if symptoms persist.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Decomposes about 374 °F (190 °C)

Flammable Limits: Not Applicable

Extinguishing Media: Use water spray, dry chemical.

Special Fire Fighting Procedures: Use fire fighting procedure that is appropriate to treat surrounding fire. All firefighters should use self-contained breathing apparatus and full fire-fighting turnout gear.

Unusual Fire Explosion Hazard: Large volumes of gas are evolved during decomposition. May form explosive dust-air mixtures. Will continue to burn once ignited.

Auto Ignition Temperature: Not Applicable

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unnecessary or unprotected personnel. Keep away from source of ignition. Contain spill, sweep up, collect and place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways.

SECTION 7 - HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials. Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Local exhaust ventilation is strongly recommended for all hot processing and powder handling. Protect closed handling systems against possible dust explosions. Avoid dust accumulation on building or equipment surfaces.

SKIN AND EYE PROTECTION:

Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust.

WORK, HYGIENIC PRACTICES:

As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: None Established

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not Applicable

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H₂O=1): 1.66

Percent Volatile by Volume (%): Not Applicable

Melting Point: Decomposes at 374-428 °F (190-220 °C)

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Slight

pH: Not Applicable

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products include nitrogen, oxides of carbon, ammonia and traces of cyanic acid. Solid residue contains urazol, biurea, cyamelide and cyanuric acid. Combustion products are oxides of carbon and nitrogen, water and large quantities of smoke and ash.

INCOMPATIBILITY: Strong oxidizers, acids, bases and metallic compounds will reduce decomposition temperature.

KEEP AWAY FROM: Heat, sparks and open flame.

SECTION 11 - TOXICOLOGICAL INFORMATION

ORAL - LD ₅₀	RATS	6800 mg/kg
DERMAL - LD ₅₀	RABBITS	> 2000 mg/kg
INHALATION-LC ₅₀	RATS	> 200 mg/L (hr)

SECTION 12 - ECOLOGICAL INFORMATION

Not available

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

SECTION 14 - TRANSPORTATION INFORMATION

Please Note: Hazardous Classification only applies to International requirements.
Within the United States this is not a regulated material.

D.O.T. SHIPPING NAME:.....Azodicarbonamide
TECHNICAL SHIPPING NAME:.....Azodicarbonamide
U.N./N.A. NUMBER.....3242
D.O.T. HAZARD CLASS AND GROUP NUMBER...4.1, II
D.O.T. LABEL/PLACARD.....Flammable Solid
PRODUCT LABEL.....Flammable Solid

SECTION 15 - REGULATORY INFORMATION

OSHA STATUS: Not Listed

TSCA STATUS: Listed

CERCLA REPORTABLE REQUIREMENTS: (RQ) None

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance: Unlisted

Section 313 Toxic Chemicals: Unlisted

Section 311/312 Hazard Category: Fire Hazard, Immediate (acute) Health Hazard.

SECTION 16 - OTHER INFORMATION

Reason for Issue: Changed Date

This information is given without any warranty or representation. It is believed to be correct but does not claim to be all inclusive and shall be used only as a guide. American International Chemical, Inc., shall not be held liable for any damage resulting from handling or contact with the above product. It is offered solely for your consideration, investigation and verification.
