

MALLINCKRODT INC. SCIENCE PRODUCTS DIVISION -- ALUMINUM NITRATE -- 6810-00-270-3226  
===== Product Identification =====

Product ID:ALUMINUM NITRATE

MSDS Date:04/06/1989

FSC:6810

NIIN:00-270-3226

MSDS Number: BDRPH

=== Responsible Party ===

Company Name:MALLINCKRODT INC. SCIENCE PRODUCTS DIVISION

Address:PARIS BYPASS

Box:M

City:PARIS

State:KY

ZIP:40361

Country:US

Info Phone Num:800-354-2050(PRESS 3)

/314-982-5000

Emergency Phone Num:800-354-2050/314-539-1600

CAGE:62910

=== Contractor Identification ===

Company Name:CHEM SCIENTIFIC INC

Address:1250 WASHINGTON ST

Box:City:NORWOOD

State:MA

ZIP:02062

Country:US

Phone:781-440-0900

CAGE:0X801

Company Name:MALLINCKRODT SPECIALTY CHEMICALS CO

Address:222 RED SCHOOL LANE

Box:City:PHILLIPSBURG

State:NJ

ZIP:08865

Country:US

Phone:908-859-2151

CAGE:62910

===== Composition/Information on Ingredients =====

Ingred Name:ALUMINUM (III) N

ITRATE,NONAHYDRATE

CAS:7784-27-2

RTECS #:BD1050000

Fraction by Wt: >99%

Other REC Limits:NONE RECOMMENDED

ACGIH TLV:2 MG/M3 (RTECS)

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===== Hazards Identification =====

LD50 LC50 Mixture:LD50 (ORAL, RAT) 3671 MG/KG

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE- INHALATION OF DUST MAY CAUSE  
RESPIRATORY TRACT IRRITATION. TOXIC. INGESTION MAY CAUSE  
GASTROEN

TERITIS & ABDOMINAL PAIN. IN RARE CASES, NITRATES MAY BE  
CONVERTED TO MORE TOXIC NITITE, MOSTLY WITH INFANTS. CONTACT WITH  
EYE OR SKIN MAY CAUSE IRRITATION. CHRONIC- IF CONVERTED TO NITRITE,  
MAY CAUSE METHEMOGLOBINEMIA.

Effects of Overexposure:EYE, SKIN, RESPIRATORY AND GASTROINTESTINAL  
TRACTS IRRITATION, SORE THROAT, COUGHING, SHORTNESS OF BREATH,  
ABDOMINAL PAIN, EYE OR SKIN REDNESS, ITCHING AND PAIN, NAUSEA,  
VOMITING, DIZZINESS, RAPID HEART BEAT, IRREGULAR BREATHING,

CONVULSION, COMA AND EVEN DEATH

Medical Cond Aggravated by Exposure:NONE KNOWN

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===== First Aid Measures =====

First Aid:CALL A DOCTOR IF SYMPTOMS PERSIST. EYE:IMMEDIATELY FLUSH WITH  
WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN:WASH WITH SOAP &  
WATER. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED.  
ORAL:IF CONSCIOUS, DRINK 2 GLASSES OF WATER & INDUCE VOMITING. CALL  
A PHYSICIAN/POISON CONTROL CENTER IMMEDIATELY.

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===== Fire Fighting Measures =====

Flash Point:NON-FLAMMABLE

Extinguishing Media:WATER ONLY. DO NOT USE DRY CHEMICAL, CARBON DIOXIDE  
OR HALON. FOR LARGE FIRE, FLOOD AREA WITH WATER FROM A DISTANCE.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND  
NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL  
FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:SPONTANEOUS REACTION, IGNITION OR  
EXPLOSION MAY OCCUR WITH EASI

LY OXIDIZABLE ORGANIC OR OTHER  
COMBUSTIBLE MATERIAL. YIELDS OXYGEN WHICH SUPPORT FIRE.

===== Accidental Release Measures =====

Spill Release Procedures:VENTILATE AREA. WEAR PROTECTIVE EQUIPMENTS.  
SWEEP UP AND PLACE IN A SUITABLE CONTAINER FOR RECLAMATION OR  
DISPOSAL. AVOID DUST DISPERSAL. SMALL SPILLS MAY BE FLUSHED TO THE  
DRAIN WITH EXCESS WATER, IF PERMITTED.

Neutralizing Agent:NOT RELEVANT

===== Handling and Storage =====  
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Handling and Storage Precautions:STORE IN A DRY, COOL, VENTILATED  
PLACE. SEPARATE FROM INCOMPATIBLES. KEEP CONTAINER TIGHTLY CLOSED.  
PROTECT AGAINST PHYSICAL DAMAGE.

Other Precautions:AVOID CONTACT WITH EYES AND SKIN. WASH THOROUGHLY  
AFTER HANDLING AND BEFORE EATING OR DRINKING. KEEP OUT OF REACH OF  
CHILDREN.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:FOR CONDITIONS WHERE EXPOSURE TO DUST AND FUMES  
IS APPARENT, A  
NIOSH APPROVED RESPIRATOR FOR DUST MISTS AND FUMES  
APPROPRIATE TO THE CONCENTRATION MAY BE WORN. IN EMERGENCIES, WEAR  
NIOSH APPROVED SELF -CONTAINED BREATHING APPARATUS.

Ventilation:ADEQUATE

Protective Gloves:RUBBER OR NEOPRENE

Eye Protection:DUST-RESISTANT SAFETY GOGGLES

Other Protective Equipment:EYEWASH STATION, EMERGENCY SHOWER,  
IMPERVIOUS BOOTS, APRON OR COVERALLS AS NEEDED

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND  
RECOMMENDED PROCEDURES. DO NOT WEAR CONTACT LENSES.

Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:D1

Boiling Pt:B.P. Text:DECOMPOSES

Melt/Freeze Pt:M.P/F.P Text:158F,70C

Decomp Temp:Decomp Text:275F,135C

Spec Gravity:NOT KNOWN

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:64%

Appearance and Odor:WHITE CRYSTALS - ODORLESS

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
REDUCING AGENTS, C

OMBUSTIBLE MATERIALS, ORGANIC MATERIALS

Stability Condition to Avoid:EXCESSIVE HEAT

Hazardous Decomposition Products:MAY YIELD TOXIC OXIDES OF NITROGEN

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. IF LOCAL ORDENANCES PERMIT, REASONABLE AMOUNTS CAN BE DISSOLVED IN WATER, NEUTRALIZED WITH LIME AND FLUSHED TO THE SEWER WITH EXCESS WATER.

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