

ALUMINUM AMMONIUM SULFATE
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MATERIAL SAFETY DATA SHEET

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SUBSTANCE IDENTIFICATION

CAS-NUMBER 7784-26-1

SUBSTANCE: **ALUMINUM AMMONIUM SULFATE**

TRADE NAMES/SYNONYMS: NATURAL TSCHERNIGITE; A-567

CHEMICAL FAMILY:
INORGANIC SALT

MOLECULAR FORMULA: AL2(SO4)3-(NH4)2-SO4.24H2O MW: 906.65

CERCLA RATINGS (SCALE 0-3): HEALTH=U FIRE=0 REACTIVITY=0 PERSISTENCE=3

COMPONENTS AND CONTAMINANTS

PERCENT: >97 COMPONENT: ALUMINUM AMMONIUM SULFATE

PERCENT: <3 COMPONENT: ALUMINUM OXIDE

OTHER CONTAMINANTS: NONE

EXPOSURE LIMITS:
2 MG(CAL)/M3 ACCGIH TWA

PHYSICAL DATA

DESCRIPTION: WHITE POWDER OR CRYSTALS; ODORLESS

BOILING POINT: 248 F (120 C) MELTING POINT: 202 F (94 C)

SPECIFIC GRAVITY: 1.6 PH: ACIDIC IN SOLUTION SOLUBILITY IN WATER: 15%

SOLVENT SOLUBILITY: DILUTE ACID; INSOLUBLE IN ALCOHOL

Dodecahydrate?

FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARD:
NEGLECTIBLE FIRE AND NEGLIGIBLE EXPLOSION HAZARD IN DUST FORM WHEN EXPOSED TO HEAT OR FLAME.

FIREFIGHTING MEDIA:
DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR FOAM
(1984 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.3).

FOR LARGER FIRES, USE WATER SPRAY, FOG OR ALCOHOL FOAM
(1984 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.3).

FIREFIGHTING:
NO ACUTE HAZARD. MOVE CONTAINER FROM FIRE AREA IF POSSIBLE. AVOID BREATHING VAPORS OR DUSTS; KEEP UPWIND.

TOXICITY

CARCINOGEN STATUS: NONE.
ALUMINUM AMMONIUM SULFATE IS AN EYE, SKIN, AND MUCOUS MEMBRANE IRRITANT.

HEALTH EFFECTS AND FIRST AID

INHALATION:
IRRITANT.

ACUTE EXPOSURE- MAY CAUSE IRRITATION WITH COUGHING, CHEST PAIN, AND DYSPNEA.

CHRONIC EXPOSURE- NONE REPORTED IN HUMANS.

FIRST AID- REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. KEEP AFFECTED PERSON WARM AND AT REST. GET MEDICAL ATTENTION.

SKIN CONTACT:
IRRITANT.

ACUTE EXPOSURE- MAY CAUSE MILD IRRITATION.

CHRONIC EXPOSURE- REPEATED OR PROLONGED CONTACT MAY CAUSE DERMATITIS.

FIRST AID- REMOVE CONTAMINATED CLOTHING AND SHOES. WASH AFFECTED AREAS WITH SOAP OR MILD DETERGENT AND LARGE AMOUNTS OF WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IF NECESSARY.

EYE CONTACT:
IRRITANT.

ACUTE EXPOSURE- DIRECT CONTACT WITH POWDER OR CRYSTALS MAY CAUSE REDNESS OR IRRITATION.

CHRONIC EXPOSURE- MAY CAUSE CONJUNCTIVITIS.

INGESTION:
IRRITANT.

ACUTE EXPOSURE- MAY CAUSE BURNING PAIN IN THE MOUTH AND THROAT, VOMITING, WATERY OR BLOODY DIARRHEA, ANOREXIA, TENESMUS, RETCHING, HEMOLYSIS, HEMATURIA, ANURIA, LIVER DAMAGE AND JAUNDICE, HYPOTENSION, COLLAPSE, AND CONVULSIONS.

FIRST AID- IF VICTIM IS CONSCIOUS, IMMEDIATELY GIVE 2 TO 4 GLASSES OF WATER, AND INDUCE VOMITING BY TOUCHING FINGER TO BACK OF THROAT. GET MEDICAL ATTENTION IMMEDIATELY.

REACTIVITY

REACTIVITY:
STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

INCOMPATIBILITIES:
SUBSTANCE CAN REACT WITH ALKALINE MATERIALS AND IS SLIGHTLY CORROSIVE TO METALS IF IN SOLUTION.

DECOMPOSITION:
THERMAL DECOMPOSITION MAY RELEASE TOXIC OXIDES OF CARBON, OF NITROGEN, AND OF SULFUR.

POLYMERIZATION:
NOT KNOWN TO OCCUR.

CONDITIONS TO AVOID

AVOID CONTACT WITH ALKALINE MATERIALS AND HEATING TO DECOMPOSITION.

SPILL AND LEAK PROCEDURES

OCCUPATIONAL SPILL:
VENTILATE CONFINED SPACES. SWEEP UP, AVOIDING DISPERSION OF DUST, AND COLLECT IN SUITABLE CONTAINER.

PROTECTIVE EQUIPMENT

VENTILATION:
PROVIDE LOCAL EXHAUST VENTILATION OR GENERAL DILUTION VENTILATION TO MEET PERMISSIBLE EXPOSURE LIMITS.

RESPIRATOR:
200 MG(CAL)/M3- HIGH EFFICIENCY PARTICULATE RESPIRATOR.
FIREFIGHTING- SELF-CONTAINED BREATHING APPARATUS OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.

CLOTHING:
PROTECTIVE CLOTHING NOT REQUIRED. AVOID REPEATED OR PROLONGED CONTACT WITH THIS SUBSTANCE.

GLOVES:
PROTECTIVE GLOVES ARE NOT REQUIRED BUT RECOMMENDED.

EYE PROTECTION:
EMPLOYEE MUST WEAR SPLASH-PROOF OR DUST-RESISTANT SAFETY GOGGLES TO PREVENT EYE CONTACT WITH THIS SUBSTANCE.

AUTHORIZED - ALLIED FISHER SCIENTIFIC
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