

MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-778/7784-31-8.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
7784-31-8
Code:
M
RTECS:

Code:
X
Name:
ALUMINUM SULAFATE, N-HYDRATE
Other REC Limits:
NONE RECOMMENDED
OSHA PEL:
NOT ESTABLISHED
Code:
M
OSHA STEL:

Code:

ACGIH TLV:
NOT ESTABLISHED
Code:
M
ACGIHSTEL:
N/P
Code:

Control Measures

Respiratory Protection:
WHERE THE EXPOSURE LIMITS AREA OR MAY BE EXCEEDED, USE A NIOSH/MSHA APPROVED RESPIRATOR FOR ACID DUST. USE POSITIVE PRESSURE SUPPLIED AIR OR SELF-CONTAINED BREATHING APPARATUS FOR EMERGENCY OR OTHER CONDITIONS WHERE PROTECTION IS REQUIRED.
Ventilation:
4 PROVIDE ADEQUATE VENTILATION. USE LOCAL EXHAUST AS NEEDED TO MAINTAIN AIRBORNE EXPOSURE BELOW CONTROL LIMITS.
Protective Gloves:
RUBBER GLOVES.
Eye Protection:
CHEMICAL SAFETY GOGGLES.
Other Protective Equipment:
Equipment FACILITIES STORING OR UTILIZING THIS MATERIAL SHOULD MAINTAIN AN EYEWASH FOUNTAIN, SAFETY SHOWER SINK IN THE WORK AREA
Work Hygienic Practices:
WASH THOROUGHLY AFTER HANDLING.
Supplemental Safety and Health:
WEAR LONG-SLEEVED CLOTHIN, RUBBER GLOVES AND BOOTS SHOULD BE WORN.

Health Hazards Data

LD50LC50Mixture:
ORAL LD50 (RAT) IS >2000 MG/KG
Route Of Entry Inds - Inhalation:
YES
Skin:
YES
Ingestion:
NO
Carcinogenicity Inds - NTP:
NO
IARC:
NO
OSHA:
NO
Health Hazards Acute And Chronic:
EYES-MAY CAUSE IRRITATION & INFLAMMATION OF THE EYES. SKIN-MAY CAUSE SKIN IRRITATION. INGESTION-CONCENTRATED SOLUTIONS CAN CAUSE KIDNEY INJURY. INHALATION-DUST ARE SEVERELY IRRITATING TO THE MUCOUS MEMBRANES AND RESPIRATORY TRACT.
Explanation Of Carcinogenicity:
THIS PRODUCT DOES NOT CONTAIN ANY INGREDIENTS DESIGNATED BY IARC, NTP ACGIG OR OSHA AS A PROBLEM HUMAN CARCINOGEN.
Signs And Symptions Of Overexposure:
EYE-CONCENTRATED SOLUTIONS (OVER 20%) MAY CAUSE SEVERE EYE DAMAGE OR BURNS. SKIN-MAY CAUSE BURNS IF THE PRODUCT IS WET OR IN THE PRESENCE OF PERSPIRATION. INGESTION-MAY CAUSE ABDOMINAL PAIN, NAUSEA &/ OR VOMITING. CONCENTRATED SOLUTIONS CANCAUSE BURNS OF THE MOUTH, BLEEDING STOMACH, INCOORDINATION, MUSCLE SPASM.
Medical Cond Aggravated By Exposure:
NONE SPECIFIED BY MANUFACTURER.
First Aid:
EYE-IMMEDIATELY FLUSH WITH WATER FOR 15 MIN. USE AN EYE WASH FOUNTAIN IF NEAR. SEE PHYSICIAN. SKIN-IMMEDIATELY WASH WITH WATER WHILE REMOVING CLOTHING. INGESTION-IF CONSCIOUS & ALERT, GIVE 2 OR MORE GLASSES OF WATER/MILK TO DRINK. IF NEAR GIVE 1 TBLSPON OF SYRUP OF IPECAC TO INDUCE VOMITING. SEE PHYSICIAN. INHALE-REMOVE TO FRESH AIR. PERFORM CPR OR GIVE OXYGEN FOR BREATHING. SEE PHYSICIAN.
Spill Release Procedures:
VACUUM OR SWEEP MATERIAL AND PLACE IN APPROPRIATE CONTAINERS FOR DISPOSAL. AVOID DUST GENERATION. STAND UPWIND IF POSSIBLE TO EVADE ANY FUGITIVE DUST. RESIDUAL SHOULD BE CLEANED FROM HARD SURFACES AS APPROPRIATE.
Neutralizing Agent:
N/R
Waste Disposal Methods:
3 DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
Handling And Storage Precautions:
AVOID BREATHING DUSTS. DO NOT SWALLOW. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. STORE IN COOL AREA IN TIGHTLY CLOSED CONTAINERS.
Other Precautions:
SPILLS: LARGE SPILL SHOULD BE HANDLED ACCORDING TO PREDETERMINE PLAN. FOR ASSISTANCE IN DEVELOPING A PLAN, CALL 1-800-453-2586.

Fire and Explosion Hazard Information

Flash Point Method:
N/P
Flash Point:

Flash Point Text:
NONCOMBUSTIBLE
Autoignition Temp:

Autoignition Temp Text:
N/R
Lower Limits:
N/R
Upper Limits:
N/R
Extinguishing Media:
NON COMBUSTIBLE. USE APPROPRIATE EXTINGUISHING MEDIA FOR MATERIAL THAT IS SUPPLYING FUEL. USE WATER SPRAY TO COOL AREA.
Fire Fighting Procedures:
AVOID FIRE CONDITIONS GREATER THAN 650F, PRODUCT DECOMPOSES TO GIVE OFF SULFUR TRIOXIDE, AN OXIDIZING AGENT WHICH WILL SUPPORT COMBUSTION.
Unusual Fire/Explosion Hazard:
UNDER FIRE CONDITIONS GREATER THAN 650F, PRODUCT DECOMPOSES TO GIVE OFF SULFUR TRIOXIDE, AN OXIDIZING AGENT WHICH WILL SUPPORT COMBUSTION.

Physical/Chemical Properties

HCC:
N1
NRC/State LIC No:
N/R
Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
N/K
Melt/Freeze Pt:

M.P./F.P Text:
LOSS WATER
Decomp Temp:

Decomp Text:
650F,343C
Vapor Pres:
N/R
Vapor Density:
N/R
Volatile Org Content %:

Spec Gravity:
N/K
VOC Pounds/Gallon:

PH: 3.5
VOC Grams/Liter:

Viscosity:
N/R
Evaporation Rate & Reference:
N/R 5
Solubility in Water:
87.3 G/100 G WATER
Appearance and Odor:
CRTSTALLINE SOLID, WHITE TO LIGHT TAN COLOR.
Percent Volatiles by Volume:
N/R
Corrosion Rate:
N/R

Reactivity Data

Stability Indicator:
YES
Stability Condition To Avoid:
AVOID HIGH TEMPERATURES GREATER THAN 650C, BECAUSE THE PRODUCT DECOMPOSES TO FORM ALUMINUM OXIDES AND SULFUR TRIOXIDE.
Materials To Avoid:
REACTS WITH STRONG ALKALI TO FORM HYDROXIDE. WEAKLY CORROSIVE TO CARBON STEEL. ON CONTACT WITH MOISTURE, AN ACIDIC SOL.
Hazardous Decomposition Products:
THERMAL DECOMPOSITION PRODUCES ALUMINUM OXIDE AND SULFUR OXIDES.
Hazardous Polymerization Indicator:
NO
Conditions To Avoid Polymerization:
NONE

Toxicological Information

Information:N/P

MSDS Transport Information

Information:N/P

Regulatory Information

Sara Title III Information: N/P

Federal Regulatory Information: N/P

State Regulatory Information: N/P

Other Information

Other Information:N/P