

DELTA CHEMICAL CORP -- ALUMINUM SULFATE, DRY -- 6810-00-686-5892  
===== Product Identification =====

Product ID:ALUMINUM SULFATE, DRY  
MSDS Date:07/01/1994  
FSC:6810  
NIIN:00-686-5892  
MSDS Number: BPHMQ  
=== Responsible Party ===  
Company Name:DELTA CHEMICAL CORP  
Address:2601 CANNERY AVE  
City:BALTIMORE  
State:MD  
ZIP:21226-1510  
Country:US  
Info Phone Num:301-354-0100  
Emergency Phone Num:301-354-0100/800-424-9300(CHEMTREC)  
CAGE:7A345  
=== Contractor Identification ===  
Company Name:DELTA CHEMICAL CORP  
Address:2601 CANNERY AVE  
Box:City:BALTIMORE  
State:MD  
ZIP:21226-1510  
Country:US  
Phone:301-354-0100/800-424-9300(CHEMTREC)  
CAGE:7A345

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

Ingred Name:57ALUMINUM SULFATE  
CAS:10043-01-3  
RTECS #:BD1700000  
Fraction by Wt: 57%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:2 MG/M3  
ACGIH TLV:2 MG/M3; 9495  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

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Hazards Identification  
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LD50 LC50 Mixture:ORAL LD50 (RAT) IS 6207MG/KG

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

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

Health Hazards Acute and Chronic:WETTED MATERIAL MAY BE

CORROSIVE(ACIDIC).EYES:MAY CAUSE IRRITATION.SKIN:MAY CAUSE IRRITATION.INGEST:MAY CAUSE GI TRACT IRRITATION.INHAL:MAY CAUSE RESPIRATORY IRRITATION.

Explanation of Carcinogenicity:THERE ARE NO INGREDIENTS ABOVE 0.1%

WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP,IARC OR OSHA.

Effects of Overexposure:INGEST:NAUSEA,VOMITING.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN AILMENTS MAY BE AT INCREASED RISK FROM EXPOSURE.

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First Aid Measures  
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First Aid:SKIN:REMOVE CONTAMINATED CLOTHING;WASH WITH WATER.EYES:FLUSH WITH WATER FOR 15 MINUTES.CONTACT PHYSICIAN.INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED.INGEST:GET

PROMPT QUALIFIED MEDICAL ATTENTION.IF CONSCIOUS,INDUCE VOMITING.

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Fire Fighting Measures  
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Flash Point:NONE

Extinguishing Media:WATER

Fire Fighting Procedures:USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard:FIRE CONDITIONS MAY EVOLVE TOXIC FUMES.SULFUR TRIOXIDE(A DECOMPOSITION PRODUCT) IS A FIRE HAZARD.

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Accidental Release Measures  
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Spill Release Procedures:VENTILATE AREA.USE PROPER PROTECTIVE AND RESPIRATORY EQUIPMENT.SWEEP UP;SPRAY WITH WATER;NEUTRALIZE WITH SODA ASH OR LIME;USE ADEQUATE VENTILATION(CO<sup>2</sup> GAS IS EVOLVED DURING NEUTRALIZATION).CLEAN SPILL AREA WITH WATER.

Neutralizing Agent:SODA ASH OR LIME.

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Handling and Storage  
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Handling and Storage Precautions:STORE IN A COOL,DRY,WELL-VENTILATED PLACE.KEEP CONTAINER CLOSED WHEN NOT IN USE.KEEP AWAY FROM MO

ISTURE

AND INCOMPATIBLE MATERIALS.

Other Precautions:FOLLOW LABEL DIRECTIONS.AVOID BREATHING DUST.AVOID SKIN AND EYE CONTACT.

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

Respiratory Protection:WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE A NIOSH/MSHA APPROVED RESPIRATOR FOR NUISANCE DUST.

Ventilation:USE LOCAL EXHAUST.

Protective Gloves:RUBBER OR VINYL

Eye Protection:DUST-PROOF GOGGLES

Other Protective Equipment:PROTECTIVE CLOTHING

,AS NEEDED.PROVIDE A

LOCAL EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices:USE REASONABLE CARE IN HANDLING THIS PRODUCT.WASH HANDS AFTER USE AND BEFORE EATING.

Supplemental Safety and Health

NONE

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

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:221F,105C

Vapor Pres:NEGLIGIBLE

Spec Gravity:1.61

Solubility in Water:APPRECIABLE

Appearance and Odor:CRYSTALS;WHITE TO BROWN;ODORLESS.

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

Stability Indicator/Materials to Avoid:YES

ALKALIES,REACTIVE MATERIALS(EG.OLEUM) WILL RESULT IN HEAT.

Stability Condition to Avoid:TEMPERATURES ABOVE 1400F,MOISTURE.

Hazardous Decomposition Products:OXIDES OF SULFUR.

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

Waste Disposal Methods:DISSOLVE IN WATER;NEUTRALIZE WITH ALKALI;FLUSH TO SEWER WITH EXCESS WATER.DISPOSE OF IN ACCORDANCE WITH FEDERAL,STATE AND LOCAL REGULATIONS.

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