

# MATERIAL SAFETY DATA SHEET

ALUM AMM SULF ACS 500G  
CAROLINA BIOLOGICAL

Revised: 09/05/00  
Replaces: None  
Printed: 25/01/06

## PRODUCT IDENTIFICATION

PRODUCT NAME: ALUMINUM AMMONIUM SULFATE, 12-HYDRATE  
COMMON SYNONYMS: AMMONIUM ALUM  
CHEMICAL FAMILY: ALUMINUM COMPOUNDS  
FORMULA:  $AlNH_4(SO_4)_2 \cdot 12H_2O$   
FORMULA WT.: 453.33  
CAS NO.: 7784-26-1  
PRODUCT USE: LABORATORY REAGENT  
PRODUCT CODES: 0484  
CHEMTREC # (800) 424-9300 NATIONAL RESPONSE CENTER # (800) 424-8802  
J.T.BAKER INC. 222 RED SCHOOL LANE PHILLIPSBURG, NJ 08865 24-HOUR  
EMERGENCY TELEPHONE -- (201) 859-2151  
EFFECTIVE: 01/04/94 ISSUED: 04/08/95  
REVISION #03

### PRECAUTIONARY LABELING

BAKER SAF-T-DATA\* SYSTEM

HEALTH	-	1	SLIGHT
FLAMMABILITY	-	0	NONE
REACTIVITY	-	0	NONE
CONTACT	-	1	SLIGHT

LABORATORY PROTECTIVE EQUIPMENT  
GOGGLES; LAB COAT

### U.S. PRECAUTIONARY LABELING

DURING USE AVOID CONTACT WITH EYES, SKIN, CLOTHING. WASH THOROUGHLY  
AFTER  
HANDLING. WHEN NOT IN USE KEEP IN TIGHTLY CLOSED CONTAINER.

### INTERNATIONAL LABELING

AVOID CONTACT WITH EYES. AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH  
PLENTY OF WATER. KEEP CONTAINER TIGHTLY CLOSED.

SAF-T-DATA\* STORAGE COLOR CODE: ORANGE (GENERAL STORAGE)

## COMPONENTS

COMPONENT	CAS NO.	WEIGHT %	OSHA/PEL	ACGIH/TLV
ALUMINUM AMMONIUM SULFATE	7784-26-1	98-100	N/E	N/E

## PHYSICAL DATA

BOILING POINT: N/A	VAPOR PRESSURE (MMHG): N/A
MELTING POINT: 94 C (201 F) (AT 760 MM HG)	VAPOR DENSITY (AIR=1): N/A
SPECIFIC GRAVITY: 1.65 (H <sub>2</sub> O=1)	EVAPORATION RATE: N/A
SOLUBILITY(H <sub>2</sub> O): APPRECIABLE (>10%)	% VOLATILES BY VOLUME: 0 (21 C)
PH: N/A	PHYSICAL STATE: SOLID
ODOR THRESHOLD (P.P.M.): N/A	
COEFFICIENT WATER/OIL DISTRIBUTION: N/A	
APPEARANCE & ODOR: WHITE CRYSTALS.	

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## **FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (CLOSED CUP): N/A

AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS: UPPER - N/A LOWER - N/A

FIRE EXTINGUISHING MEDIA

USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

SPECIAL FIRE-FIGHTING PROCEDURES

FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED

BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE.

UNUSUAL FIRE & EXPLOSION HAZARDS

NONE IDENTIFIED.

TOXIC GASES PRODUCED

AMMONIA, SULFUR DIOXIDE

EXPLOSION DATA-SENSITIVITY TO MECHANICAL IMPACT

NONE IDENTIFIED.

EXPLOSION DATA-SENSITIVITY TO STATIC DISCHARGE

NONE IDENTIFIED.

## **HEALTH HAZARD DATA**

THRESHOLD LIMIT VALUE (TLV/TWA): NOT ESTABLISHED

SHORT-TERM EXPOSURE LIMIT (STEL): NOT ESTABLISHED

PERMISSIBLE EXPOSURE LIMIT (PEL): NOT ESTABLISHED

TOXICITY OF COMPONENTS

ORAL RAT LD50 FOR ALUMINUM AMMONIUM SULFATE 2750  
MG/KG

CARCINOGENICITY: NTP: NO IARC: NO Z LIST: NO OSHA REG: NO

CARCINOGENICITY

NONE IDENTIFIED.

REPRODUCTIVE EFFECTS

NONE IDENTIFIED.

EFFECTS OF OVEREXPOSURE

INHALATION: NONE IDENTIFIED

SKIN CONTACT: NONE IDENTIFIED

EYE CONTACT: NONE IDENTIFIED

SKIN ABSORPTION: NONE IDENTIFIED

INGESTION: NONE IDENTIFIED

CHRONIC EFFECTS: NONE IDENTIFIED

TARGET ORGANS

NONE IDENTIFIED

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

NONE IDENTIFIED

PRIMARY ROUTES OF ENTRY

NONE INDICATED

EMERGENCY AND FIRST AID PROCEDURES

INGESTION: IF SWALLOWED AND THE PERSON IS CONSCIOUS, IMMEDIATELY GIVE

LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION.  
INHALATION: IF A PERSON BREATHE IN LARGE AMOUNTS, MOVE THE EXPOSED

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PERSON TO FRESH AIR.  
SKIN CONTACT: IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH PLENTY  
OF  
SOAP AND WATER FOR AT LEAST 15 MINUTES.  
EYE CONTACT: IN CASE OF EYE CONTACT, IMMEDIATELY FLUSH WITH PLENTY  
OF  
WATER FOR AT LEAST 15 MINUTES.

SARA/TITLE III HAZARD CATEGORIES AND LISTS  
ACUTE: NO CHRONIC: NO FLAMMABILITY: NO PRESSURE: NO REACTIVITY: NO  
EXTREMELY HAZARDOUS SUBSTANCE: NO  
CERCLA HAZARDOUS SUBSTANCE: NO  
SARA 313 TOXIC CHEMICALS: YES CONTAINS ALUMINUM  
GENERIC CLASS: GENERIC CLASS REMOVED FROM CFR:  
7/1/91  
TSCA INVENTORY: YES

### **REACTIVITY DATA**

STABILITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT  
OCCUR  
CONDITIONS TO AVOID: NONE DOCUMENTED  
INCOMPATIBLES: NONE IDENTIFIED  
DECOMPOSITION PRODUCTS: AMMONIA, OXIDES OF SULFUR

### **SPILL & DISPOSAL PROCEDURES**

STEPS TO BE TAKEN IN THE EVENT OF A SPILL OR DISCHARGE  
WEAR SUITABLE PROTECTIVE CLOTHING. CAREFULLY SWEEP UP AND REMOVE.  
DISPOSAL PROCEDURE  
DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL  
ENVIRONMENTAL REGULATIONS.

### **INDUSTRIAL PROTECTIVE EQUIPMENT**

VENTILATION: USE ADEQUATE GENERAL OR LOCAL EXHAUST  
VENTILATION TO  
KEEP FUME OR DUST LEVELS AS LOW AS POSSIBLE.  
RESPIRATORY PROTECTION: NONE REQUIRED WHERE ADEQUATE VENTILATION  
CONDITIONS  
EXIST. IF AIRBORNE CONCENTRATION IS HIGH, USE  
AN  
APPROPRIATE RESPIRATOR OR DUST MASK.  
EYE/SKIN PROTECTION: SAFETY GOGGLES, PROPER GLOVES ARE RECOMMENDED.

### **STORAGE AND HANDLING PRECAUTIONS**

SAF-T-DATA\* STORAGE COLOR CODE: ORANGE (GENERAL STORAGE)  
STORAGE REQUIREMENTS  
KEEP CONTAINER TIGHTLY CLOSED. SUITABLE FOR ANY GENERAL CHEMICAL  
STORAGE  
AREA.

### **TRANSPORTATION DATA AND ADDITIONAL INFORMATION**

DOMESTIC (D.O.T.)  
PROPER SHIPPING NAME: CHEMICALS, N.O.S. (NON-REGULATED)  
INTERNATIONAL (I.M.O.)  
PROPER SHIPPING NAME: CHEMICALS, N.O.S. (NON-REGULATED)  
MARINE POLLUTANTS: NO

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AIR (I.C.A.O.)

PROPER SHIPPING NAME: CHEMICALS, N.O.S. (NON-REGULATED)

U.S. CUSTOMS HARMONIZATION NUMBER: 28333000003

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