

FISHER SCIENTIFIC CO. CHEMICAL MFG DIV -- A656-500, AMMONIUM CARBONATE --  
6810-00-234-8358

===== Product Identification =====

Product ID:A656-500, AMMONIUM CARBONATE

MSDS Date:08/19/1998

FSC:6810

NIIN:00-234-8358

MSDS Number: CKPKS

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ

ZIP:07410-2802

Country:US

Info Phone Num:

201-796-7100

Emergency Phone Num:201-796-7100

Chemtrec Ind/Phone:(800)424-9300

CAGE:1B464

=== Contractor Identification ===

Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410-2802

Country:US

Phone:201-796-7100

CAGE:1B464

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

Ingred Name:AMMONIUM CARBONATE

CAS:506-87-6

RTECS #:BP1925000

> Wt:99.

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

===== Hazard

s Identification =====

LD50 LC50 Mixture:NOT AVAILABLE

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

Health Hazards Acute and Chronic:TARGET ORGANS: NONE. EYES: MAY CAUSE MODERATE EYE IRRITATION. DUST MAY CAUSE MECHANICAL IRRITATION. SKIN: MAY CAUSE IRRITATION WITH BURNING PAIN, ITCHING AND REDNESS. INGESTION: MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT. MAY CAUSE PERFORATION OF THE GI TRACT. INHALATION: CAUSES RESPIRATORY TRACT IRRITATION. CHRONIC: NO INFORMATION FOUND.

Explanation of Carcinogenicity:CAS# 506-87-6 NOT LISTED BY ACGIH, IARC, NTP OR OSHA.

Effects of Overexposure:EYES: IRRITATION. SKIN: IRRITATION, BURNING PAIN, REDNESS, ITCHING. INHALATION: RESPIRATORY TRACT IRRITATION. INGESTION: DIGESTIVE TRACT IRRITATION, PAIN, NAUSEA, VOMITING, DIARRHEA, GI TRACT HEMORRHA GING, POSSIBLE SHOCK.

Medical Cond Aggravated by Exposure:NO DATA PROVIDED BY RESPONSIBLE PARTY.

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

First Aid:EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, LIFTING LIDS. GET MEDICAL AID IMMEDIATELY. DO NOT ALLOW VICTIM TO CLOSE OR RUB EYES. SKIN: GET MEDICAL AID IF IRRITATION DEVELOPS OR PERSISTS. RINSE AREA WITH LOTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHES & SHOES. INGESTION: DO NOT INDUCE VOMITING! IF VICTIM CONSCIOUS & ALERT, GIVE 2-4 CUPS MILK OR WATER. NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL AI

D!  
INHALATION: REMOVE FROM EXPOSURE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GIVE OXYGEN IF BREATHING DIFFICULT.DO NOT USE MOUTH-TO MOUTH RESPIRATION!

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

Flash Point:NOT AVAILABLE

Extinguishing Media:SMALL FIRES:WATER SPRAY,DRY CHEMICAL,CARBON DIOXIDE,CHEMICAL FOAM.DO NOT GET WATER INSIDE CONTAINERS! LARGE FIRES:DRY CHEMICAL,CARBON DIOXIDE,ALCOHOL-RESISTENT FOAM,WATER SPRAY.

Fire Fight

ing Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS IN PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR. DURING A FIRE, IRRITATING AND HIGHLY TOXIC GASES MAY BE GENERATED BY THERMAL DECOMPOSITION OR COMBUSTION.

Unusual Fire/Explosion Hazard:VAPORS MAY BE HEAVIER THAN AIR. THEY CAN SPREAD ALONG THE GROUND & COLLECT IN LOW OR CONFINED AREAS. CONTACT WITH METALS MAY EVOLVE HYDROGEN GAS. CONTAINERS MAY EXPLODE WHEN HEATED.

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

Spill Release Procedures:USE PROPER PERSONAL PROTECTIVE EQUIPMENT. AVOID RUNOFF INTO STORM SEWERS AND DITCHES THAT LEAD TO WATERWAYS. SWEEP UP OR ABSORB MATERIAL, THEN PLACE INTO A SUITABLE CLEAN, DRY, CLOSED CONTAINER FOR DISPOSAL. AVOID GENERATING DUSTY CONDITIONS. REMOVE ALL IGNITION SOURCES. PROVIDE VENTILATION. DO NOT GET WATER INSIDE CONTAINERS.

Neutralizing Agent:NO DATA PROVIDED BY RESPONSIBLE PARTY.

=====  
===== Handling and Storage =====

Handling and Storage Precautions:WASH THOROUGHLY AFTER HANDLING. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. USE ONLY IN A WELL VENTILATED AREA. KEEP CONTAINER TIGHTLY CLOSED. DO NOT GET ON SKIN OR IN EYE. DO NOT INGEST OR INHALED. STORE PROTECTED FROM AIR.

Other Precautions:STORE IN A TIGHTLY CLOSED CONTAINER. STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM INCOMPATIBLE SUBSTANCES. DO NOT STORE IN METAL CONTAINERS. STORE IN OPAQUE, AIR TIGHT CONTAINERS. DO NOT EXPOSE TO AIR.

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

Respiratory Protection:FOLLOW THE OSHA RESPIRATOR REGULATIONS FOUND IN 29 CFR 1910.134 OR EUROPEAN STANDARD EN 149. ALWAYS USE A NIOSH OR EUROPEAN STANDARD EN 149 APPROVED RESPIRATOR WHEN NECESSARY.

Ventilation:USE ADEQUATE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP AIRBORNE CONCENTRATIONS BELOW THE PERMISSIBLE EXPOSURE LIMITS.

Protective GI

oves:WEAR APPROPRIATE GLOVES TO PREVENT SKIN EXPOSURE.

Eye Protection:APPROPRIATE PROTECTIVE EYEGLASSES OR CHEMICAL SAFETY GOGGLES.

Other Protective Equipment:FACILITIES STORING OR UTILIZING THIS MATERIAL SHOULD BE EQUIPPED WITH AN EYEWASH FACILITY AND A SAFETY SHOWER. WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT SKIN EXPOSURE.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

Supplemental Safety and Health

OSHA VAC

ATED PELS: AMMONIUM CARBONATE: NO VACATED OSHA PELS ARE LISTED FOR THIS CHEMICAL.

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

HCC:N1

Boiling Pt:B.P. Text:NOT AVAILABLE

Melt/Freeze Pt:=-58.C, 136.4F

Decomp Temp:Decomp Text:NOT AVAILABLE

Vapor Pres:NOT AVAILABLE

Vapor Density:3.3

Spec Gravity:1.5

pH:NOT AVAILABLE

Evaporation Rate & Reference:NO DATA GIVEN

Solubility in Water:SOLUBLE

Appearance and Odor:COLORLESS OR WHITE SOLID WITH STRONG, AMMONIA-LIKE ODOR.

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

Stability Indicator/Materials to Avoid:YES

ACIDS, ACID SALTS, ALKALOIDS, ALUM, SODIUM HYPOCHLORITE, IRON/ZINC SALTS.

Stability Condition to Avoid:INCOMPATIBLE MATERIALS, DUST GENERATION, EXPOSURE TO AIR, EXCESS HEAT.

Hazardous Decomposition Products:NITROGEN OXIDE (NOX), AND AMMONIA (NH3) FUMES, OXIDES OF CARBON.

===== Toxicological Information =====

Toxicological Information:RTECS#: CAS

# 506-87-6: BP1925000. LD/LC50:

NOT AVAILABLE. EPIDEMIOLOGY: NOT AVAILABLE. TERATOGENICITY: NOT AVAILABLE. NEUROTOXICITY: NOT AVAILABLE. REPRODUCTIVE EFFECTS: NOT AVAILABLE. MUTAGENICITY: NOT AVAILABLE. OTHER STUDIES: NONE.

=====  
Ecological Information  
=====

Ecological: ECOTOXICITY: GOLDFISH (FRESH WATER) DEATH, 24 PPM/3.5H GOLD FISH (FRESH WATER TOLERATED, 10 PPM/>100H. ENVIRONMENTAL FATE: NO INFORMATION REPORTED. PHYSICAL/CHEMICAL: NO INFORMATION AVAILABLE.  
OTHER: NONE.

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

Waste Disposal Methods: DISPOSE OF IN A MANNER CONSISTENT WITH LOCAL, STATE & FEDERAL REGULATIONS. RCRA D-SERIES MAXIMUM CONCENTRATION OF CONTAMINANTS : NONE LISTED. RCRA D-SERIES CHRONIC TOXICITY REFERENCE LEVELS : NONE LISTED. RCRA F-SERIES: NONE LISTED. RCRA P-SERIES: NONE LISTED. RCRA U-SERIES: NONE LISTED.

=====  
MSDS Transport Information  
=====

Transport Information: US DOT: SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (AMMONIUM CARBONATE). HAZARD CLASS: 9. UN NUMBER: UN 3077. PACKING GROUP: III. IATA/RID/ADR: NO INFORMATION AVAILABLE. IMO: SHIPPING NAME: AMMONIUM CARBONATE. HAZARD CLASS: 9.2. UN NUMBER: UN9084. PACKING GROUP: III. REGULATED LIMIT, 230 KG.

=====  
Regulatory Information  
=====

SARA Title III Information: SARA 302 (RQ): FINAL RQ=5000 LBS (2270 KG).

SECTION 302 (TPQ): NONE OF THE CHEMICALS LISTED HAVE A TPQ. SECTION 313: NO CHEMICALS ARE REPORTABLE UNDER SECTION 313.

Federal Regulatory Information: TSCA: CAS# 506-87-6 IS LISTED ON THE TSCA INVENTORY. HEALTH & SAFETY REPORTING LIST: NONE OF THE CHEMICALS LISTED ARE ON THE HEALTH & SAFETY REPORTING LIST. CHEMICAL TEST RULES: NONE OF THE CHEMICALS IN THIS PRODUCT ARE UNDER A CHEMICAL TEST RULE. SECTION 12(B): NONE OF THE CHEMICALS ARE LISTED UNDER TSCA SEC

TION 12 (B). TSCA SIGNIFIGANT NEW USE RULE

(SNUR): NONE OF THE CHEMICALS IN THIS MATERIAL HAVE A SNUR UNDER TSCA. CLEAN AIR ACT: THIS MATERIAL DOES NOT CONTAIN ANY HAZARDOUS AIR POLLUTANTS. THIS MATERIAL DOES NOT CONTAIN ANY CLASS1 OR CLASS 2 OZONE DEPLETORS.

State Regulatory Information: CAS# 506-87-6 CAN BE FOUND ON THE FOLLOWING STAE RIGHT-TO-KNOW LISTS: CALIFORNIA, NEW JERSEY, PENNSYLVANIA, MASSACHUSETTS. CALIFORNIA NO SIGNIFIGANT RISK LEVEL: NONE OF THE CHEMICALS IN THIS PRODUCT A RE LISTED.

===== Other Information =====

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to v erify and assume responsibility for the suitability of this information to their particular situation.