

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 D ECOMPOSITION 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.

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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 DI SPOSAL. AVOID GENERATING DUSTY CONDITIONS. REMOVE ALL IGNITION SOURCES. PROVIDE VENTILATION. DO NOT GET WATER INSIDE CONTAINERS.

Neutralizing Agent:NO DATA PROVIDED BY RESPONSIBLE PARTY.

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===== 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 IN HALED. 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 CONTA INERS. STORE IN OPAQUE, AIR TIGHT CONTAINERS. DO NOT EXPOS E 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 PERMISSABLE EXPOSURE LIMITS.

Protective Gl

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:NITROXIDE (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.

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Ecological Information
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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.

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Disposal Considerations
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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.

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MSDS Transport Information
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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.

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Regulatory Information
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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 =====

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