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**** MATERIAL SAFETY DATA SHEET ****

Ammonium Carbonate
01160

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Ammonium Carbonate

Catalog Numbers:

A651 500, A651-500, A651500, A651J500, A652 3, A652-3, A6523, A656 3,
A656 500, A656-3, A656-500, A6563, A656500, A657, A657-12, A657-212,
A657-500, S79896, S79896-1, S798961

Synonyms:

Ammonium sesquicarbonate, carbonic acid ammonium salt, crystal
ammonia, diammonium carbonate.

Company Identification: Fisher Scientific

Reagent Lane

Fairlawn, NJ 07410

For information, call: 201-796-7100

Emergency Number: 201-796-7100

For CHEMTREC assistance, call: 800-424-9300

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	EINECS#
506-87-6	Ammonium carbonate	99%	208-058-0

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Appearance: Hard, colorless, translucent crystals or white powder.
Caution! May cause eye and skin irritation. Causes severe digestive
tract irritation with pain, nausea, vomiting and diarrhea. May
corrode the digestive tract with hemorrhaging and possible shock.
Target Organs: None.

Potential Health Effects

Eye:

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 digestive tract.

Inhalation:

Causes respiratory tract irritation.

Chronic:

No information found.

**** SECTION 4 - FIRST AID MEASURES ****

Eyes:

Flush eyes with plenty of water for at least 15 minutes,
occasionally lifting the upper and lower lids. Get medical aid
immediately. Do NOT allow victim to rub or keep eyes closed.

Skin:

Get medical aid if irritation develops or persists. Rinse area with
large amounts of water for at least 15 minutes. Remove contaminated
clothing and shoes.

Ingestion:

Do NOT induce vomiting. If victim is conscious and alert, give 2-4
cupfuls of milk or water. Get medical aid immediately.

Inhalation:

Remove from exposure to fresh air immediately. If not breathing,
give artificial respiration. If breathing is difficult, give oxygen.
Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.
No specific antidote exists.

**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information:

As in any fire, wear a self-contained breathing apparatus in
pressure-demand, MSHA/NIOSH (approved or equivalent), and full
protective gear. Substance is nonflammable.

Extinguishing Media:

For small fires, use water spray, dry chemical, carbon dioxide or
chemical foam.

Autoignition Temperature: Not available.

Flash Point: Not available.

NFPA Rating: Not published.

Explosion Limits, Lower: Not available.

Upper: Not available.

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**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated
in Section 8.

Spills/Leaks:

Sweep up, then place into a suitable clean, dry container for
disposal. Avoid generating dusty conditions.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:

Wash thoroughly after handling. Remove contaminated clothing and
wash before reuse. Do not get on skin or in eyes. Do not ingest or
inhale.

Storage:

Store in a tightly closed container. Store in a cool, dry,
well-ventilated area away from incompatible substances.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne
concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Ammonium carbonate	none listed	none listed	none listed

OSHA Vacated PELs:

Ammonium carbonate:

No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical
safety goggles as described by OSHA's eye and face
protection regulations in 29 CFR 1910.133.

Skin:

Wear appropriate gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin
exposure.

Respirators:

Follow the OSHA respirator regulations found in 29CFR
1910.134. Always use a NIOSH-approved respirator when
necessary.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State:

Solid

Appearance:

Hard, colorless, translucent crystals or white powde

Odor:

Strong ammonia-like.

pH:

Not available.

Vapor Pressure:

Not available.

Vapor Density:

Negligible.

Evaporation Rate:

Negligible.

Viscosity:

Not available.

Boiling Point:

Not available.

Freezing/Melting Point:

136.4 F

Decomposition Temperature:

Not available.

Solubility:

Appreciable.

Specific Gravity/Density:

1.5 at 68F.

Molecular Formula:

CH8N2O3

Molecular Weight:

96.0676

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:

Stable at room temperature in closed containers under normal storage
and handling conditions.

Conditions to Avoid:

Incompatible materials, exposure to air.

Incompatibilities with Other Materials:

Acids, acid salts, alkaloids, alum, sodium hypochlorite, and
iron/zinc salts.

Hazardous Decomposition Products:

Nitric oxide (NOx) and ammonia (NH3) fumes, oxides of carbon.
Hazardous Polymerization: Has not been reported.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS#:

CAS# 506-87-6: BP1925000

LD50/LC50:

Not available.

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Carcinogenicity:
Ammonium carbonate -
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Epidemiology:
Not available.
Teratogenicity:
Not available.
Reproductive Effects:
Not available.
Neurotoxicity:
Not available.
Mutagenicity:
Not available.
Other Studies:
None.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

Ecotoxicity:
Goldfish (fresh water) death, 24 ppm/3.5H Goldfish (fresh water)
tolerated, 10 ppm/ 100H
Environmental Fate:
No information reported.
Physical/Chemical:
No information available.
Other:
None.

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Dispose of in a manner consistent with federal, state, and local regulations.
RCRA D-Series Maximum Concentration of Contaminants: Not listed.
RCRA D-Series Chronic Toxicity Reference Levels: Not listed.
RCRA F-Series: Not listed.
RCRA P-Series: Not listed.
RCRA U-Series: Not listed.
Not listed as a material banned from land disposal according to RCRA.

**** SECTION 14 - TRANSPORT INFORMATION ****

US DOT
Shipping Name: AMMONIUM CARBONATE
Hazard Class: 110
UN Number: NA9084
Packing Group:
IMO
No information available.
IATA
No information available.
RID/ADR
No information available.
Canadian TDG
Shipping Name: AMMONIUM CARBONATE
Hazard Class: 9.2
UN Number: UN9084
Other Information: REGULATED LIMIT 230 KG

**** SECTION 15 - REGULATORY INFORMATION ****

A. Federal

TSCA
CAS# 506-87-6 is listed on the TSCA inventory.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.
Section 12b
None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.
SARA
Section 302 (RQ)
Final RQ = 5000 pounds (2270 kg)
Section 302 (TPQ)
None of the chemicals in this product have a TPQ.
Section 313
No chemicals are reportable under Section 313.
Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depleters.
This material does not contain any Class 2 Ozone depleters.
Clean Water Act:
CAS# 506-87-6 is listed as a Hazardous Substance under the CWA.
None of the chemicals in this product are listed as Priority
Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants
under the CWA.
OSHA:
None of the chemicals in this product are considered highly hazardous

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by OSHA.
B. State
Ammonium carbonate can be found on the following state right to know
lists: California, New Jersey, Pennsylvania, Massachusetts.
California No Significant Risk Level:
None of the chemicals in this product are listed.

C. International
Canada
CAS# 506-87-6 is listed on Canada's DSL/NDSL List.
CAS# 506-87-6 is not listed on Canada's Ingredient Disclosure List.
European Labeling in Accordance with EC Directives
Hazard Symbols: Not available.
Risk Phrases:
S 24/25 Avoid contact with skin and eyes.
Exposure Limits:
OEL-AUSTRALIA:TWA 2.5 mg(F)/m3. OEL-BELGIUM:TWA 2.5 mg(F)/m3. OEL-CZEC
HOSLOVAKIA:TWA 1 mg(F)/m3. STEL 5 mg(F)/m3. OEL-DENMARK:TWA 2.5 mg(F)/m
3. OEL-FINLAND:TWA 2.5 mg(F)/m3. OEL-FRANCE:TWA 2.5 mg(F)/m3. OEL-GERM
ANY:TWA 2.5 mg(F)/m3. OEL-HUNGARY:TWA 1 mg(F)/m3. STEL 2 mg(F)/m3. OEL-
THE NETHERLANDS:TWA 2.5 mg(F)/m3. OEL-THE PHILIPPINES:TWA 2.5 mg(F)/m3
. OEL-POLAND:TWA 1 mg(F)/m3. OEL-RUSSIA:TWA 0.2 mg/m3. STEL 1 mg(F)/m3. O
L-SWEDEN:TWA 2 mg(F)/m3. OEL-SWITZERLAND:TWA 1.8 ppm (1.5 mg(F)/m3); ST
EL 9.0 ppm. OEL-THAILAND:TWA 2.5 mg(F)/m3. OEL-TURKEY:TWA 2.5 mg(F)/m3
. OEL-UNITED KINGDOM:TWA 2.5 mg(F)/m3. OEL IN BULGARIA, COLOMBIA, JORD
AN, KOREA check ACGIH TLV. OEL IN NEW ZEALAND, SINGAPORE, VIETNAM chec
k ACGI TLV

**** SECTION 16 - ADDITIONAL INFORMATION ****

Additional Information:
No additional information available.
MSDS Creation Date: 12/15/1994 Revision #3 Date: 8/14/1996

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