

# DALLAS

## MATERIAL SAFETY DATA SHEET (Conforms to CFR 1910.1200)

### 1 Identification of Substance:

#### . Product Details:

Trade Name: Ammonium Chloride

#### Manufacturer / Supplier:

The Dallas Group of America, Inc.  
374 Route 22

Whitehouse, NJ 08888

Tel: 908-534-7800

Information Department: Product Safety Department

### 2 Composition / Data on components:

#### . Chemical characterization:

##### Description:

Mixture of substances listed below.

##### Components:

CAS NO.	Description:	%Min	%Max
12125-02-9	Untreated Ammonium Chloride	99.50	100.00
12125-02-9	Treated Ammonium Chloride (With anti-caking agent a or b)	99.00	99.90
61790-29-8	a-Organic Surfactants	0.02	0.03
7758-87-4	b-Tricalcium Phosphate	0.50	1.00

### 3 Hazards identification:

#### . Hazard Description:

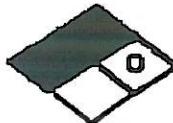
Information pertaining to particular dangers for man and environment:

Harmful by inhalation, taken internally, and in contact with skin.

Irritating to eyes and skin.

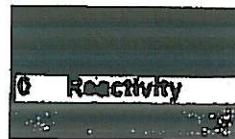
#### . Classification System:

NFPA ratings (scale 0-4)



Health = 1  
Fire = 0  
Reactivity = 0

HMIS Ratings (scale 0-4)



### 4 First Aid Measures:

#### . General Information:

Ammonium Chloride can cause discomfort on contact with any part of the body or if taken internally. Vaporized gases from Ammonium Chloride are considered toxic, as well as penetrating and pungent. When high concentrations do occur, those exposed should immediately leave the contaminated area.

#### . Inhalation:

Inhalation of excessive concentrations of vapor, fumes, and/or dust produces irritation of the upper respiratory tract resulting in coughing, excessive spitting and choking sensation. Reactions in humans have usually been limited to mild irritation or inflammation of the nose and throat.

Distributed by:  
Brenntag Southeast, Inc.-Durham  
(919)598-0681 or 1-800-849-7000

**Trade Name: Ammonium Chloride**

- **After skin contact :**  
Immediately remove contaminated clothing. Flush all affected areas with large amounts of water for at least 15 minutes. Obtain medical advice immediately.
- **After eye contact:**  
Immediately flush eyes with large quantities of running water for at least (15) fifteen minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface area of the eyes and lids with water. Obtain medical attention as soon as possible. Oils or ointments should not be used. Continue the flushing for an additional (15) fifteen minutes if a physician is not immediately available.
- **After swallowing:**  
DO NOT INDUCE VOMITING. Administer large volumes of warm water and call physician. If patient is unconscious, DO NOT give any medication or fluid orally.
- **After inhalation:**  
Remove from contaminated atmosphere. If breathing has ceased, clear the victim's airway and start mouth-to-mouth artificial respiration, which may be supplemented by the use of a bag-mask respirator, or a manually-triggered oxygen supply capable of delivering 1 liter/second or more. If the victim is breathing, oxygen may be administered from a demand-type or continuous-flow inhalator, preferably with a physician's advice. Contact a physician immediately.

**5 Fire Fighting Measures:**

- **Suitable extinguishing agents:**  
Water, water fog, carbon dioxide (CO<sub>2</sub>), dry chemical.
- **For safety reasons unsuitable extinguishing agents:**  
NONE
- **Protective equipment:**  
Scott Air-Pak or equivalent respiratory device.
- **Special Fire fighting procedures, unusual fire or explosion hazards:**  
Ammonium Chloride is not, in itself, flammable or explosive, however, it vaporizes at a relatively low temperature of 339°C or 642°F. This temperature is easily achieved in a fire and as a result evolves fumes of nitrogen oxides, hydrogen chloride ions and ammonia gas; all of which are considered toxic. Firefighters exposed to these fumes should wear Scott Air-Pak or equivalent.

**6 Accidental Release Measures:**

- **Person-related safety precautions:**  
Wear protective equipment. Keep unprotected persons away. All personnel involved in a spill clean-up should follow the recommendations and practices set forth below (refer to Industrial Hygiene).
- **Measures for environmental protection:**  
Spill or discharges into the environment involving large quantities of Ammonium Chloride should be controlled and cleaned-up according to a pre-determined affirmative, written Spill Prevention and Control Program.
- **Measures for cleaning/collecting:**  
Sweep up and recycle into process if contamination does not present a problem. Use appropriate protective equipment if dust is generated or contact with eyes or skin is expected. Flush residues and liquid to holding area for neutralization before discharge.
- **Measures for disposal:**  
Under Federal RCRA, it is the responsibility of the user of Product to determine, at the time of disposal, whether the Product falls under the RCRA as a hazardous waste. This is because Product uses, transformations, synthesis, mixtures, etc. may render the resulting end-product hazardous.

**7 Handling and storage:**

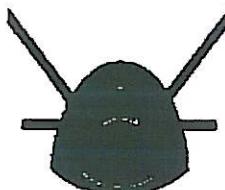
- **Handling:**  
**Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool, dry conditions in well sealed receptacles.
- **Information about storage in one common storage facility:**  
Not required.

**Trade Name: Ammonium Chloride****8 Exposure Controls and Personal Protection:****Personal protective equipment:****General protective and hygienic measures:**

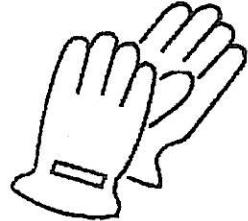
Keep away from foodstuffs, beverages, and feed. Immediately remove all soiled clothing.

Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

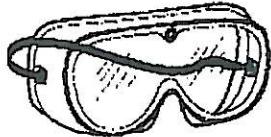
Clothing, gloves, footwear and safety glasses must be worn at all times by Personnel exposed to or handling Ammonium Chloride.

**Respiratory Equipment:**

NIOSH approved dust-mask.

**Protection of hands:**

Protective Gloves.

**Eye Protection:**

Chemical safety goggles or equivalent should be worn at all times by persons handling or exposed to Ammonium Chloride.

**9 Physical and Chemical Properties:**

- Formula:** NH<sub>4</sub>CL
- Form:** Crystalline Solid
- Color:** White
- Odor:** Odorless

	<u>Value/Range</u>	<u>Unit</u>	<u>Method</u>
<b>Change in condition</b>			
Melting point/Sublimation:	339°C or 642°F		
Decomposition:	520°C or 988°F		
Flash Point:	None		
Ignition Temperature:	Will not ignite.		
Auto Igniting:	Will not ignite.		
Danger of explosion:	Not explosive.		
<b>Explosion limits:</b>			
Lower:	N/A		
Upper:	N/A		
<b>Vapor pressure:</b>	N/A		
<b>Density:</b>	900 g/L		
<b>Solubility in/Miscibility with water:</b>	20°C (37g/100g H <sub>2</sub> O)		
<b>Solvent Content: Organic Solvents:</b>	N/A		
<b>Specific gravity:</b>	1.567 @ 20°C		
<b>pH of 5% solution @ 20°C</b>	4.3 - 5.5		

**Trade Name: Ammonium Chloride****10 Stability and Reactivity:**

- Stable
- Thermal decomposition / conditions to be avoided:  
Heated to decomposition it will emit fumes of HCl and ammonia gas.
- Dangerous reactions:  
Explosive reaction with potassium chlorate or bromine trifluoride.  
Violent reaction with bromine pentafluoride. Reaction with hydrogen cyanide may create explosive nitrogen trichloride.
- Dangerous products of decomposition:  
HCl and Ammonia

**11 Toxicological Information:**

• Mutagenic effects:	N/A		
• Cytogenic analysis:	hamster: fibroblast; 400mg/L : FCT0D7 22,623,84 (Food Chemical Toxicol)		
• OSHA Standard Air:	None		
• ACGIH Limit Values:	TWA 10 mg/m <sup>3</sup> , STEL 20mg/m(Fume Only)		
• TOSCA:	Reported in TOSCA Inventory 1986.		
• Primary irritant effect:			
Skin contact:	Irritant to the skin.		
Eye contact:	Severe eye irritant. (500mg/24 hrs. rabbit)		
Skin absorption:	No data available		
Inhalation:	Irritant to mucous membranes.		
Ingestion:	Moderate toxicity. (LD 50:1650 mg/kg rat) (LD 50:1000 mg/kg rabbit)		
• Overexposure acute effects:	May cause severe eye irritation. Dusts and mists can irritate skin mucous membranes and upper respiratory tract.		
• Overexposure chronic effects:	May cause inflammation of mucous membranes in respiratory tract and on skin.		
• Sensitization:	Moderate to skin.		
• Toxicology data carcinogenic statement:			
National Toxicology Register	<input checked="" type="checkbox"/> Yes	OSHA Register	<input checked="" type="checkbox"/> No
IARC Monograph	<input checked="" type="checkbox"/> No	ACGIH 1995-96	<input checked="" type="checkbox"/> No

**12 Ecological Information:**

- Environmental fate:  
Biodegradability does not apply to inorganic compounds. No other data available.
- Environmental effects:

24 Hour LC 50 (Daphnia) 5.1 mg/L NH<sub>3</sub>  
24 Hour LC 50 (Trout) 0.70 mg/L NH<sub>3</sub>  
24 Hour LC 50 (Goldfish) 7.2 mg/L NH<sub>3</sub>  
24 Hour LC 50 (Bluegill) 1.4 mg/L NH<sub>3</sub>

**13 Disposal considerations:****Product****Recommendation:**

Under Federal RCRA, it is the responsibility of the user of Product to determine, at the time of disposal, whether the product falls under the RCRA as a hazardous waste. This is because Product uses, transformations, synthesis, mixtures, etc. may render the resulting end-product hazardous.

**Trade Name: Ammonium Chloride****14 Transport Information:**

• DOT regulations:	12125-02-9
• CAS Number:	Ammonium Chloride
• DOT shipping name:	N/A - (no restrictions)
• IATA	N/A - (no restrictions)
• IMO	
• DOT Class:	Non hazardous (in packages less than 5000 lbs.)
• DOT Labels:	None required.
• DOT Markings:	None required.
• DOT Placard:	None required.
• UN Number:	None

**15 State / Federal Regulations:**

• EPA Requirements:	
CERCLA (40CFR32)	
Reportable quantity:	5000 lbs.
RCRA Waste Number:	None
SARA Title III (313):	Not listed
SARA Title III (311-312 CFR 370):	Not listed
Clean Air Act:	Not listed
U.S. TOSCA status:	Listed 1988
Canada Domestic Substance List:	Ammonium Chloride #00040006
California Proposition 65:	Not listed
New Jersey Right to know:	#0083

**Bibliography Source Reference**

1. NIOSH - RTECS Registry of Toxic Effect of Chemical Substances.
2. American Conference of Governmental Industrial Hygienist.
3. Dangerous Properties of Industrial Materials, SAX
4. Handbook of Toxic and Hazardous Chemicals and Carcinogens, Marshall Sittig.
5. Industrial Hygiene and Toxicology, Patty
6. Hazardous Materials 181, JJ Keller
7. Ambient Water Quality Criteria for Ammonia, USEPA.

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Revised 03/01/04

BASF Corporation

**BASF**

## Material Safety Data Sheet

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Original Date: 10/18/2001  
Revision Date: 01/30/2002BASF CORPORATION  
3000 CONTINENTAL DRIVE NORTHMOUNT OLIVE, NJ 07828  
(973) 426-4671EMERGENCY TELEPHONE: (800) 424-9300 CHEMTRAC  
(800) 832-HELP (BASF Hotline)

BOTH NUMBERS ARE AVAILABLE DAYS, NIGHTS, WEEKENDS, &amp; HOLIDAYS.

## SECTION 1 - PRODUCT INFORMATION

## AMMONIUM CHLORIDE FINE WHITE RW

Product ID: NCI 116961

Common Chemical Name:

Ammonium Chloride

Synonyms:

Ammoniac, Salmiac, Ammonium Muriate, Amchlo

Molecular Formula:

NH<sub>4</sub>CL

Chemical Family: Inorganics

Molecular Wt.: 53.5

Distributed by:

Brentag Southeast, Inc. - Durham

1-800-9621 or 1-800-642-7620

## SECTION 2 - INGREDIENTS

Chemical Name:		CAS	Amount	
BORON OXIDE (B <sub>2</sub> O <sub>3</sub> )		1303-86-2	0.6	%
ACGIH TLV	TWA	10	MG/CU. M	
OSHA PEL	TWA	15	MG/CU. M	
		5	MG/CU. M	
PECTIN		9000-69-5	<	0.1 %
PEL/TLV NOT ESTABLISHED				
AMMONIUM CHLORIDE ((NH <sub>4</sub> )C		12125-02-9	99.4	%
ACGIH TLV	STEL	20	MG/CU. M	
	TWA	10	MG/CU. M	

## SECTION 3 - PHYSICAL PROPERTIES

Color:	White
Form/Appearance:	Crystalline Powder
Odor:	Odorless
Specific Gravity:	Typical 1.53
Bulk Density:	600 -900 KG/M3
pH:	5 - 6.5 SU
pH method:	100 G/L H <sub>2</sub> O
Boiling Pt:	Typical Low/High Deg. @ Pressure
Freezing Pt:	NOT AVAILABLE
AMMONIUM CHLORIDE FINE WHITE RW	C 1 ATMOSPHERES
NCI 116961	

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## SECTION 3 - PHYSICAL PROPERTIES (cont)

	Typical	Low/High	Deg.	@	Pressure
Decomp. Temp:	NOT AVAILABLE				
Solubility:	Typical	Low/High	U.O.M.	@ Temperature	
Vapor Pressure:	374		G/L	20	C
		1.3	MILLIBARS	X	30 DEG. C XX
SECTION 4 - FIRE AND EXPLOSION DATA					

	Typical	Low/High	Deg.	Method
Flash Point:	NOT AVAILABLE			
Autocombustion:	NOT AVAILABLE			

**Extinguishing Media:**

Use water fog, foam or dry chemical extinguishing media.

**Fire Fighting Procedures:**

Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

**Unusual Hazards:**

There are no known unusual fire or explosion hazards.

**SECTION 5 - HEALTH EFFECTS**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

**Toxicology Test Data:**

Mouse, Oral LD50 - 750 MG/KG

Moderately Toxic

Rat, Oral LD50 - 1410 MG/KG

Moderately Toxic

Human Occupational Exposure Experience -

Eye Irritant

**Acute Overexposure Effects:**

Contact with the eyes and skin may result in mechanical irritation.

Acute exposures may be irritating to the eyes. Inhalation of ammonium chloride may result in headache, drowsiness, mental confusion and may progress to coma.

**Chronic Overexposure Effects:**

There are no known chronic effects associated with this material.

**First Aid Procedures - Skin:**

Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, get medical attention.

**First Aid Procedures - Eyes:**

Immediately rinse eyes with running water for 15 minutes. If irritation develops, get medical attention.

**First Aid Procedures - Ingestion:**

If swallowed, dilute with water. DO NOT INDUCE VOMITING. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

**AMMONIUM CHLORIDE FINE WHITE RW**

NCI 116961

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**SECTION 5 - HEALTH EFFECTS (cont)****First Aid Procedures - Inhalation:**

Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

**First Aid Procedures - Notes to Physicians:**

None known.

**First Aid Procedures - Aggravated Medical Conditions:**

No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product. Please refer to the effects of overexposure section for effects

(if any) observed in animals.  
 First Aid Procedures - Special Precautions:  
 None

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#### SECTION 6 - REACTIVITY DATA

Stability Data:

Stable

Incompatibility:

Strong alkalis, strong oxidizing agents, nitrites.

Conditions/Hazards to Avoid:

Excessive temperatures.

Hazardous Decomposition/Polymerization:

Hazardous Decomposition Products: HCl and ammonia.

Polymerization: Does not occur.

Corrosive Properties:

Not corrosive.

Oxidizer Properties:

Not an oxidizer

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#### SECTION 7 - PERSONAL PROTECTION

Clothing:

Gloves, coveralls, apron, and boots as necessary to prevent contact.

Eyes:

Safety glasses with side-shields should be worn during industrial operations.

Respiration:

If dusts are generated, wear an approved dust respirator.

Ventilation:

Use local exhaust to control dusts.

Explosion Proofing:

See Section 4 - Fire and Explosion Data.

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#### SECTION 8 - SPILL-LEAK/ENVIRONMENTAL

General:

Spills should be contained and placed in suitable containers for disposal. This material is regulated under CERCLA.

Waste Disposal:

Dispose of waste in accordance with all federal, state and local regulations.

Container Disposal:

Dispose of in a licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

AMMONIUM CHLORIDE FINE WHITE RW

NCI 116961

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#### SECTION 9 - STORAGE AND HANDLING

General:

Protect against alkalis and alkalinizing substances.

Keep containers closed.

Other Storage and Handling Data:

Do not store with oxidizing agents, nitrites, nitrate.

DO NOT STORE TOGETHER WITH: OXIDIZING AGENTS, NITRITES, NITRATES.

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#### SECTION 10 - REGULATORY INFORMATION

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##### TSCA Inventory Status

Listed on Inventory: YES

RCRA Haz. Waste No.: NA

CERCLA: YES Reportable Qty.: (If YES)

XXXXXX XXXXXXXXXXXXXXXX 5000 LB

State Regulatory Information: (By Component) NJ/PA/MA RTK

CAS: 1303-86-2 YES

NAME: BORON OXIDE (B2O3)

CAS:	9000-69-5	NO
NAME:	PECTIN	
CAS:	12125-02-9	YES
NAME:	AMMONIUM CHLORIDE ((NH4)C	

## Hazard Ratings:

	Health:	Fire:	Reactivity:	Special:
HMIS	2	0	0	NA
NFPA	2	0	0	NA

## SECTION 11 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:

SEE BELOW

DOT Technical Name:

SEE BELOW

DOT Primary Hazard Class:

SEE BELOW

DOT Secondary Hazard Class:

SEE BELOW

DOT Label Required:

SEE BELOW

DOT Placard Required:

SEE BELOW

DOT Poison Constituent:

SEE BELOW

BASF Commodity Codes: NA NA UN/NA Code: E/R Guide:

Bill of Lading Description:

>5000 POUNDS, RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, NOS, (AMMONIUM CHLORIDE), 9, UN3077, PGIII  
 "IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS AMMONIUM CHLORIDE FINE WHITE RW

NCI 116961

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## SECTION 11 - TRANSPORTATION INFORMATION (cont)

MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK".

END OF DATA SHEET

0020

# MATERIAL SAFETY DATA SHEET

BASF Corporation Chemicals Division  
100 Cherry Hill Road, Parsippany, New Jersey 07054, USA 210-5000

# BASF

PRODUCT NUMBER: 020074

Ammonium Chloride--RW Grade

## SECTION I - IDENTIFICATION

® Registered Trademark

TRADE NAME: Ammonium Chloride--RW Grade

CHEMICAL NAME: Ammonium Chloride

SYNOMYS: Ammoniac, Salicid, Ammonium Chloride, Ammonium

FORMULA: NH<sub>4</sub>Cl

CHEMICAL FAMILY: Inorganics

MOL. WGT.: 53.49

## SECTION II - INGREDIENTS

COMPONENT	CAS NO.	%	PEL/TLV - SOURCE
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Ammonium Chloride--RW Grade	12125-02-0	100-100.7	10 mg/m <sup>3</sup> ; 20 mg/m <sup>3</sup> STEL ACGIH, OSHA (Final)
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All components are in TSCA inventory.  
SARA Title III Sec1. 313: Not listed.

## SECTION III - PHYSICAL DATA

BOILING/MELTING POINT 0780 mm Hg: N/A	pH: 5.0 (100 g/l water)	
VAPOR PRESSURE 0020 C: N/A	Sublimation Pt.: 235 C	
SPECIFIC GRAVITY OR BULK DENSITY: 1.536g/cm <sup>3</sup>	OR 800-800kg/m <sup>3</sup>	
SOLUBILITY IN WATER: 274 g/l @ 20 C	600g/C @ 50C	
APPEARANCE: White Powder	ODOR: None	INTENSITY: N/A

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (TEST METHOD): Not Flammable	AUTOIGNITION TEMP: N/A
FLAMMABILITY LIMITS IN AIR (% BY VOL)	LOWER: N/A
FLAMMABILITY LIMITS IN AIR (% BY VOL)	UPPER: N/A
EXTINGUISHING MEDIUM	Use water fog, foam, CO <sub>2</sub> or dry chemical extinguishing media.
SPECIAL FIREFIGHTING PROCEDURES	Firefighters should be equipped with self-contained breathing apparatus and turnout gear.
UNUSUAL FIRE AND EXPLOSION HAZARDS	When exposed to heat or flames, Ammonium Chloride decomposes into Ammonia and HCl which forms a fog.

## EMERGENCY TELEPHONE NUMBER

CHEMTRAC 800-424-9300

201-318-3000

THIS NUMBER IS AVAILABLE DAYS, NIGHTS, WEEKENDS, AND HOLIDAYS

PRODUCT NUMBER: 020674

Ammonium Chloride--AV Grade

## SECTION V - HEALTH DATA

## TOXICOLOGICAL TEST DATA:

Ammonium Chloride--AV Grade  
Rat, Oral LD<sub>50</sub>

## RESULT:

Eye and skin irritant  
1.7 g/kg.

## EFFECTS OF OVEREXPOSURE:

Routes of exposure to this material include eye and skin contact or inhalation. Contact with the eyes and skin may result in irritation. Inhalation of the dusts or powders may result in respiratory irritation. Ingestion of the solid may result in gastric disturbances.

Existing medical conditions aggravated by exposure to this material:  
No information found for this mixture.

## FIRST AID PROCEDURES:

Eyes - Immediately wash eyes with running water for 15 minutes. If irritation develops, consult a physician.  
Skin - Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, consult a physician.  
Ingestion - If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.  
Inhalation - Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

## SECTION VI - REACTIVITY DATA

## STABILITY:

Stable.

## CONDITIONS TO AVOID:

Heat and moisture.

## CHEMICAL INCOMPATIBILITY:

Strong alkalis and nitrates, nitrites, nitrates.

## HAZARDOUS DECOMPOSITION PRODUCTS:

HCl and ammonia.

## HAZARDOUS POLYMERIZATION:

Does not occur

## CONDITIONS TO AVOID:

N/A

## CORROSIVE TO METAL:

No

## OXIDIZER:

No

## SECTION VII - SPECIAL PROTECTION

## RESPIRATORY PROTECTION:

If mists are generated, wear a NIOSH/MSHA approved dust mask.

## EYE PROTECTION:

Chemical goggles.

## PROTECTIVE CLOTHING:

Gloves, coveralls, apron, boots as necessary to prevent skin contact.

## VENTILATION:

Use local exhaust to control dusts.

## OTHER:

N/A

PRODUCT NUMBER: 010074 Ammonium Chloride--Rx Grade

**SECTION VIII - ENVIRONMENTAL DATA****ENVIRONMENTAL TOXICITY DATA:**

None available.

**SPILL AND LEAK PROCEDURES:**

Spills should be contained, solidified, and placed in suitable containers for disposal in a RCRA licensed facility. This material is RCRA hazardous due to its properties.

**HAZARDOUS SUBSTANCE SUPERFUND:** Yes **RQ (lbs):** 8,000

**WASTE DISPOSAL METHOD:**

Incorporate in a RCRA licensed facility. Do not discharge into waterways or sewer systems without proper authority.

**HAZARDOUS WASTE 40CFR261:** No**HAZARDOUS WASTE NUMBER:****CONTAINER DISPOSAL:**

Empty containers with less than 1 inch of residue may be landfilled at a licensed facility. Recommend crushing or other means to prevent unauthorized reuse. Other containers must be disposed of in a RCRA licensed facility.

**SECTION IX - SHIPPING DATA**

<b>D.O.T. PROPER SHIPPING NAME (49CFR172.101-102)</b>	<b>HAZARDOUS SUBSTANCE (49CFR CERCLA LIST)</b>
Bulk- Hazardous Substance, Solid, NOS-	Yes

<b>D.O.T. HAZARD CLASSIFICATION (49CFR172.101-102)</b>	<b>SECONDARY</b>
PRIMARY Bulk- ORH-E	None

<b>D.O.T. LABELS REQUIRED (49CFR172.101-102)</b>	<b>D.O.T. PLACARDS REQUIRED (49CFR172.504)</b>	<b>POISON CONSTITUENT (49CFR172.203(K))</b>
None	Bulk Only - 1100 -	None

<b>BILL OF LADING DESCRIPTION</b>
Bulk- Hazardous Substance, Solid, NOS- (Ammonium Chloride) ORH-E, MA 9100, RQ 8000 lbs (Ammonium Chloride)
Pkg - Ammonium Chloride

<b>CC NO.</b>	<b>A12/988</b>	<b>UN/NA CODE</b>	<b>0122</b>
<b>DATE PREPARED:</b>	2 / 13 / 88	<b>UPDATED:</b>	1 / 12 / 86

WHILE BASF CORPORATION BELIEVES THE DATA SET FORTH HEREIN ARE ACCURATE AS OF THE DATE HEREOF, BASF CORPORATION MAKES NO WARRANTY WITH RESPECT THERETO AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. SUCH DATA ARE OFFERED SOLELY FOR YOUR CONSIDERATION, INVESTIGATION, AND VERIFICATION.

PRODUCT NUMBER: 020074 Ammonium Chloride--RV Grade

## SECTION 3 - PRODUCT LABEL

## Ammonium Chloride--RV Grade

## CAUTION:

CONTACT WITH EYES OR SKIN MAY RESULT IN IRRITATION.  
INGESTION MAY RESULT IN GASTRIC DISTURBANCES.  
INHALATION OF DUSTS MAY IRRITATE THE RESPIRATORY TRACT.

Avoid contact with eyes, skin or clothing. Avoid breathing dusts.  
Use with local exhaust. Wear a NIOSH/MSHA-approved dust respirator, chemical  
goggles, gloves, coveralls, apron, boots and other protective clothing as  
necessary to prevent contact.

## FIRST AID:

Eyes-Immediately wash eyes with running water for 15 minutes.  
If irritation develops, consult a physician.

Skin-Wash affected areas with soap and water. Remove and launder  
contaminated clothing before reuse. If irritation develops,  
consult a physician.

Ingestion-If swallowed, dilute with water and immediately induce  
vomiting. Never give fluids or induce vomiting if the victim  
is unconscious or having convulsions. Get immediate medical  
attention.

Inhalation-Move to fresh air. Aid in breathing, if necessary,  
and get immediate medical attention.

IN CASE OF SPILLS OR LEAKS: Material is a RCRA-regulated product. Spills  
should be contained, absorbed and placed in suitable containers for disposal  
in a RCRA-licensed facility.

IN CASE OF FIRE: Use water fog, foam, CO<sub>2</sub> or dry chemical extinguishing  
media. Firefighters should be equipped with self-contained breathing  
apparatus and turnout gear. Ammonium Chloride decomposes to ammonia and HCl  
when exposed to heat.

EMPTY CONTAINERS: All labeled precautions must be observed when handling,  
sterling and transporting empty containers due to product residues. Do not  
reuse this container unless it is professionally cleaned and reconditioned.

DISPOSAL: Spilled material, unused contents and empty containers must be  
disposed of in accordance with local, state and federal regulations. Refer  
to our Material Safety Data Sheet for specific disposal instructions.

IN CASE OF CHEMICAL EMERGENCY: Call CHEMREC day or night for assistance and  
information concerning spilled material, fire, exposure and other chemical  
accidents. 800-424-8300

ATTENTION: This product is sold solely for use by industrial institutions.

Refer to our Technical Bulletin and Material Safety Data Sheet regarding  
safety, usage, applications, hazards, procedures and disposal of this product.  
Consult your supervisor for additional information.

NJ/PA/MA/CA, RTK: 1212B-02-B, Ammonium Chloride  
Made in West Germany  
CHEMICAL INTERMEDIATES  
0800

SCANNED

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