

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)

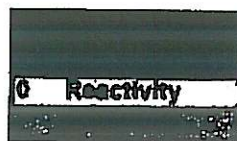


Health = 1

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 victims 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 (CO₂), 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:

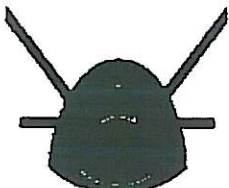
Not required.

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

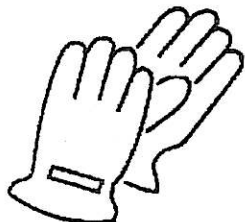
Keep away from foodstuffs, beverages, and feed. Immediately remove all soiled clothing.

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

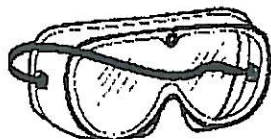
Clothing, gloves, footwear and safety glasses must be worn at all times by Personnel exposed to or handling Ammonium Chloride.

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_4Cl
- Form: Crystalline Solid
- Color: White
- Odor: Odorless

	Value/Range	Unit	Method
• Change in condition			
Melting point/Sublimation:	339°C or 642°F		
Decomposition:	520°C or 968°F		
Flash Point:	None		
Ignition Temperature:	Will not ignite.		
Auto Igniting:	Will not ignite.		
Danger of explosion:	Not explosive.		
• Explosion limits:			
Lower:	N/A		
Upper:	N/A		
• Vapor pressure:	N/A		
• Density:	900 g/L		
• Solubility In/Miscibility with water:	20°C (37g/100g H_2O)		
• Solvent Content: Organic Solvents:	N/A		
• Specific gravity:	1.567 @ 20°C		
• pH of 5% solution @ 20°C	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/m³, STEL 20mg/m(Fume Only)
- . **TOSCA:** Reported in TOSCA Inventory 1988.
- . **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"/> No	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 NH₃
 - 24 Hour LC 50 (Trout) 0.70 mg/L NH₃
 - 24 Hour LC 50 (Goldfish) 7.2 mg/L NH₃
 - 24 Hour LC 50 (Bluegill) 1.4 mg/L NH₃

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:	
. CAS Number:	12125-02-9
. DOT shipping name:	Ammonium Chloride
. IATA	N/A - (no restrictions)
. IMO	N/A - (no restrictions)
. 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:	#0093

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: 01/30/2002

BASF CORPORATION
3000 CONTINENTAL DRIVE NORTHMOUNT OLIVE, NJ 07828
(973) 426-4671EMERGENCY TELEPHONE: (800) 424-9300 CHEMTREC
(800) 832-HELP (BASF Hotline)

BOTH NUMBERS ARE AVAILABLE DAYS, NIGHTS, WEEKENDS, & 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:

NH₄CL

Chemical Family: Inorganics

Molecular Wt.: 53.5

Distributed by:

Brenntag Southeast, Inc. - Durham

Tel: 919-286-0631 or 1-800-647-7000

SECTION 2 - INGREDIENTS

Chemical Name:		CAS	Amount
BORON OXIDE (B ₂ O ₃)		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 ₄)Cl)		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			
	Typical	Low/High	U.O.M.	
Specific Gravity:	1.53			
Bulk Density:	600	-900	KG/M3	
pH:	5	-	6.5	SU
pH method:	100 G/L H ₂ O			
	Typical	Low/High	Deg.	@ Pressure
Boiling Pt:	NOT AVAILABLE			
Freezing Pt:	335	C	1	ATMOSPHERES
AMMONIUM CHLORIDE FINE WHITE RW				
NCI 116961				

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SECTION 3 - PHYSICAL PROPERTIES (cont)

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

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

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

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.

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 alkalizing 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.

SECTION 10 - REGULATORY INFORMATION

TSCA Inventory Status

Listed on Inventory: YES

RCRA Haz. Waste No.: NA

CERCLA: YES Reportable Qty.: (If YES)

XXXXXXX 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 07654, (801) 318-3000**BASF**

PRODUCT NUMBER: 020074

Ammonium Chloride--RW Grade

SECTION I

Registered Trademark

TRADE NAME: Ammonium Chloride--RW Grade

CHEMICAL NAME: Ammonium Chloride

SYNONYMS: Ammoniac, Salinas,
Ammonium Muriate, AmshlorFORMULA: NH₄Cl

CHEMICAL FAMILY: Inorganics

MOL. WGT.: 53.49

SECTION II - INGREDIENTS

COMPONENT	CAS NO.	%	PEL/TLV - SOURCE
Ammonium Chloride--RW Grade	12125-02-0	99-99.7	10 mg/m ³ ; 30 mg/m ³ STEL ACGIH, OSHA (Final)
All components are in TSCA inventory. SARA Title III Sect. 313: Not listed.			

SECTION III - PHYSICAL DATA

BOILING/MELTING POINT @760 mm Hg: N/A	pH: 5.8 (100 g/l water)
VAPOR PRESSURE mm Hg @20 C: N/A	Sublimation Pt.: 335 C
SPECIFIC GRAVITY OR BULK DENSITY: 1.536g/cm ³	OR 800-800kg/m ³
SOLUBILITY IN WATER: 374 g/l @ 20 C	800g/C @ 80C
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
	UPPER: N/A
EXTINGUISHING MEDIUM	Use water fog, foam, CO ₂ 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

CHEMTREC 800-424-9300

201-318-3000

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

PRODUCT NUMBER: 020074

Ammonium Chloride--RV Grade

SECTION V - HEALTH DATA**TOXICOLOGICAL TEST DATA:**Ammonium Chloride--RV Grade
Rat, Oral LD50**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 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 dusts are generated, wear a NIOSH/MSHA approved dust mask.

EYE PROTECTION:

Chemical goggles.

PROTECTIVE CLOTHING:

skin contact.

gloves, coveralls, apron, boots as necessary to prevent

VENTILATION:

Use local exhaust to control dusts.

OTHER:

N/A

PRODUCT NUMBER: 020074 Ammonium Chloride--Rd 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:**

Incinerate 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**D.O.T. PROPER SHIPPING NAME (49CFR172.101-102)**

Bulk- Hazardous Substance, Solid, NOS-

HAZARDOUS SUBSTANCE (49CFR CERCLA LIST)

Yes

REPORTABLE QUANTITY (RQ) 8,000**D.O.T. HAZARD CLASSIFICATION (CFR172.101-102)****PRIMARY**

Bulk- BRN-E

SECONDARY

None

D.O.T. LABELS REQUIRED (49CFR172.101-102)

None

D.O.T. PLACARDS REQUIRED (CFR172.504)Bulk Only
" 9188 "**POISON CONSTITUENT (49CFR172.203(K))**

None

BILL OF LADING DESCRIPTIONBulk- Hazardous Substance, Solid, NOS- (Ammonium Chloride)
BRN-E, NA 9188, RQ 8000 LBS
(Ammonium Chloride)

Pkg - Ammonium Chloride

CC NO. A12/355**UN/NA CODE** 1728**DATE PREPARED:** 2 / 13 / 88**UPDATED:** 5 / 18 / 88

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PRODUCT NUMBER: 028874

Ammonium Chloride--RV Grade

SECTION X - 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, CO2 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, storing 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 CHEMTREC day or night for assistance and information concerning spilled material, fire, exposure and other chemical accidents. 800-424-9300

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: 12128-02-0, Ammonium Chloride
Made in West Germany
CHEMICAL INTERMEDIATES
0600

SCANNED

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