

BASF Corporation

## Material Safety Data Sheet

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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, &amp; HOLIDAYS.

## SECTION 1 - PRODUCT INFORMATION

AMMONIUM SULFATE INDUSTRIAL GRADE

Product ID: NCI 734391

Common Chemical Name:

AMMONIUM SULFATE

Synonyms:

INORGANIC AMMONIUM SALT, SULFURIC ACID DIAMMONIUM SALT

Molecular Formula:

(NH<sub>4</sub>)<sub>2</sub> S<sub>04</sub>

Chemical Family: Inorganics

Molecular Wt.: 132.1

## SECTION 2 - INGREDIENTS

Chemical Name:	CAS	Amount
AMMONIUM SULFATE	7783-20-2	> 99.5 %
PEL/TLV NOT ESTABLISHED		

## SECTION 3 - PHYSICAL PROPERTIES

Color:	White				
Form/Appearance:	Crystalline Solid				
Odor:	Ammonia				
Odor Intensity:	Mild				
Specific Gravity:	Typical	Low/High	U.O.M.		
	1.766				
pH:	~	5	SU		
pH method:	(10% AQUEOUS SOLUTION)				
	Typical	Low/High	Deg.	@	Pressure
Boiling Pt:	NOT AVAILABLE				
Freezing Pt:	~	350	C	760	MM HG
Decomp. Tmp:	~	235	C	760	MM HG
Solubility in Water Description:	Very Soluble				
	Typical	Low/High	U.O.M.	@	Temperature
Solubility:	754		G/L		20 C
Octanol/Water partition coefficient (log POW):	-5.1				

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SECTION 3 - PHYSICAL PROPERTIES (cont)

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Solubility: 843 g/l 50'C

SECTION 4 - FIRE AND EXPLOSION DATA

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	Typical	Low/High	Deg.	Method
Flash Point:	NOT AVAILABLE			
Autoignition:	NOT AVAILABLE			
Extinguishing Media:	Use water fog extinguishing media. Use flooding amounts of water in early stages of fire.			
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

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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:

Rat, Oral LD50 - 4250 MG/KG  
Moderately Toxic  
Rat Inhalation Risk Test; Sat. Vapor/20C -  
No deaths after 8 hour exposure  
Rabbit, Primary Skin Irritation -  
Nonirritating  
Rabbit, Eye Irritation -  
Nonirritating

Acute Overexposure Effects:

Contact with the eyes and skin may result in irritation. Systemic ammonia poisoning has been thought to occur after parenteral administration of large doses of some ammonium salts. However, this is not a relevant route of exposure.

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 and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

First Aid Procedures - Inhalation:

Move to fresh air. Aid in breathing, if necessary, and get medical attention. **IMPORTANT:** While Brenntag believes the information contained herein to be accurate, Brenntag makes no representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with the applicable federal, state, and local law. This MSDS shall not in any way limit or preclude the operation and effect of any of the provisions of Brenntag's terms and conditions of sale.

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SECTION 5 - HEALTH EFFECTS (cont)

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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 observed in animals.

First Aid Procedures - Special Precautions:

None

SECTION 6 - REACTIVITY DATA

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Stability Data:

Stable

Incompatibility:

Nitrates, oxidizing compounds, nitrites and strong alkalis.

Conditions/Hazards to Avoid:

See Reactivity - Incompatibility section.

Hazardous Decomposition/Polymerization:

Hazardous Decomposition Products: NH3 and SO3 when heated.

Polymerization: Does not occur.

Corrosive Properties:

Not corrosive.

Oxidizer Properties:

Not an oxidizer

SECTION 7 - PERSONAL PROTECTION

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Clothing:

Gloves, coveralls, apron, boots as necessary to minimize contact.

Eyes:

Chemical Goggles

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.

Other Personal Protection Data:

Eyewash fountains and safety showers must be easily accessible.

Shower after handling.

SECTION 8 - SPILL-LEAK/ENVIRONMENTAL

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General:

Spills should be contained and placed in suitable containers for disposal in a licensed facility. This material is not regulated by RCRA or CERCLA ("Superfund"). Wear appropriate respiratory protection and protective clothing and provide adequate ventilation during clean-up.

Waste Disposal:

Incinerate in a licensed facility. Do not discharge into waterways.  
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SECTION 8 - SPILL-LEAK/ENVIRONMENTAL (cont)

Container Disposal:

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

Environmental Toxicity Test Data:

Golden Orfe, static 96 hr LC50 - 460 - 1000 MG/L  
Practically Nontoxic  
Daphnia magna, 48 hr static EC50 - 433 MG/L  
Practically Nontoxic

SECTION 9 - STORAGE AND HANDLING

General:

Keep containers closed.  
Protection against fire and explosion. Incombustible. Keep in dry place. Protect against alkalis & alkalizing substances. Don't store together with nitrites. Stow/store/load separately from food, feed and consumable items.

SECTION 10 - REGULATORY INFORMATION

TSCA Inventory Status

Listed on Inventory: YES

RCRA Haz. Waste No .: N/A

CERCLA: NO Reportable Qty.: (If YES)

Hazard Ratings:

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

This product is hazardous or contains components which are hazardous according to the OSHA Hazard Communication Standard.

MASSACHUSETTS RIGHT-TO-KNOW LISTED: - YES: 7783-20-2

PENNSYLVANIA RIGHT-TO-KNOW LISTED: - YES

PENNA. ENVIRONMENTAL HAZARD: - YES: 7783-20-2

SECTION 11 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:

N/A

DOT Technical Name:

N/A

DOT Primary Hazard Class:

N/A

DOT Secondary Hazard Class:

N/A

DOT Label Required:

N/A

DOT Placard Required:

N/A

DOT Poison Constituent:

N/A

BASF Commodity Codes:

UN/NA Code:

E/R Guide:

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Product #: 853666 Name: AMMONIUM SULFATE STD TECH IND Desc:

From: BRENNTAG MID-SOUTH INC. To: Wednesday, September 14, 2011

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SECTION 11 - TRANSPORTATION INFORMATION (cont)

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NOT REGULATED BY THE DEPARTMENT OF TRANSPORTATION

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