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Material Safety Data Sheet

Ammonium Sulfate

Section 1: Chemical Product and Compa	any Identification	n	
Molecular formula: (NH4)2SO4			
CAS Nr: 7783-20-2			
Molecular weight: 132.14			
Synonyms: Ammonium Sulfate			
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Section 2: Composition an	d Information on Ingredients	
Composition:		
Name	CAS #	%By Weight
Ammonium Sulfate	7783-20-2	99min

Section 3:	Hazards Identification
EMERGENCY	OVERVIEW
Appearance:	white solid. Caution! May cause eye, skin, and respiratory tract irritation.
Target Organ	s: Respiratory system, eyes, skin.
Potential Hea	alth Effects
Eye: May caus	e eye irritation. Causes redness and pain.
Skin: May cau	se skin irritation. May cause reddening of the skin.
Ingestion: Ma	ay cause gastrointestinal irritation with nausea, vomiting and diarrhea.
Inhalation: M	lay cause respiratory tract irritation. May cause respiratory difficulty and coughing. It is

generally not harmful to healthy persons if inhaled, but may con tribute to asthma attacks or clearance problems in persons with these pre-existing pulmonary diseases

Chronic: Prolonged or repeated skin contact may cause dermatitis.

Section 4: First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Notes to Physician: Treat symptomatically and supportively.

Section 5: Fire and Explosion Data

General Information: As in any fire, wear a 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 decomposition or combustion. Use water spray to keep fire-exposed containers cool. Substance is noncombustible.

Extinguishing Media: Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

Flash Point: Not applicable.

Autoignition Temperature: Not available.

Explosion Limits, Lower:Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

Section 6: Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7: Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid breathing dust. Do not load or store together with sodium nitrite. Ammonium sulfate can react with sodium nitrite at temperatures as low as room temperature producing flames or even explosions. Ammonium sulfate has a weakly acid reaction. When alkaline

substances are added, ammonia is liberated.

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: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. Exposure Limits

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

OSHA Vacated PELs: Ammonium sulfate: 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 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Section 9: Physical and Chemical Properties

Physical State: Solid Appearance: white Odor: odorless pH: 5.5 (0.1M sol.) Vapor Pressure: Not available. Vapor Density: Not available. Evaporation Rate:Negligible Viscosity: Not applicable. Boiling Point: Not applicable. Freezing/Melting Point: 350 deg C (dec) Decomposition Temperature:235 deg C Solubility: 43% at 20C. Specific Gravity/Density:1.77 Molecular Formula:(NH4)2SO4 Molecular Weight:132.13

Section 10: Stability and Reactivity Data

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Dust generation, excess heat.

Incompatibilities with Other Materials: Chlorates, nitrites, alkalis, Many metals, such as iron and

zinc, are attacked by ammonium sulfate in the presence of moisture..

Hazardous Decomposition Products: Oxides of sulfur, nitrogen oxides (NOx) and ammonia (NH3). **Hazardous Polymerization:** Will not occur.

Section 11: Toxicological Information

RTECS#: CAS# 7783-20-2: BS4500000 LD50/LC50: CAS# 7783-20-2: Oral, mouse: LD50 = 640 mg/kg; **Oral, mouse:** LD50 = 4280 mg/kg; Oral, rat: LD50 = 2840 mg/kg; **Oral, rat:** LD50 = 4540 mg/kg; **Carcinogenicity:** CAS# 7783-20-2: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. Epidemiology: No information available. Teratogenicity: No information available. Reproductive Effects: No information available. Neurotoxicity: No information available. Mutagenicity: No information available. Other Studies: No data available.

Section 12: Ecological Information

Ecotoxicity: Water flea Daphnia: LC50 = 423 mg/L; 25 Hr; Unspecified

Section 13: Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure

complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14: Transport Information					
	US DOT	ΙΑΤΑ	RID/ADR	IMO	Canada
					TDG
Shipping	Not regulated				
Name:					
Hazard Class:					
UN Number:					

Section 14: Transport Information

Packing			
Group:			

Section 15: Other Regulatory Information
US FEDERAL
TSCA
CAS# 7783-20-2 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
CERCLA Hazardous Substances and corresponding RQs
None of the chemicals in this material have an RQ.
SARA Section 302 Extremely Hazardous Substances
None of the chemicals in this product have a TPQ.
SARA Codes
CAS # 7783-20-2: acute.
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 depletors. This material does not contain any Class 2 Ozone depletors.
Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances 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 by OSHA.
STATE
CAS# 7783-20-2 can be found on the following state right to know lists: New Jersey, Pennsylvania,
Massachusetts.
California No Significant Risk Level: None of the chemicals in this product are listed.
European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols:
Not available.
Risk Phrases:
Safety Phrases:

S 24/25 Avoid contact with skin and eyes. WGK (Water Danger/Protection) CAS# 7783-20-2: 1 Canada - DSL/NDSL CAS# 7783-20-2 is listed on Canada's DSL List. Canada - WHMIS This product does not have a WHMIS classification. Canadian Ingredient Disclosure List CAS# 7783-20-2 is listed on the Canadian Ingredient Disclosure List.

Exposure Limits

Section 16: Other Information

MSDS Creation Date: 7/19/1999 Last Updated: 2012.5.21 16:00 pm

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we m be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.