

MATERIAL SAFETY DATA SHEET
("ESSENTIALLY SIMILAR" TO FORM OSH-20)

January 1, 2002

SECTION I PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Super Crop 21-0-0 Ammonium Sulfate
CHEMICAL FAMILY: Ammonium Sulfate 21-0-0
DOT SHIPPING NAME: Ammonium Sulfate 21-0-0
MANUFACTURER: AMERICAN PRIDE COOP
P.O. BOX 98
HENDERSON, CO. 80640

IDENTIFICATION NO:
HAZARD CLASS: NA
CHEMICAL FORMULA: $(\text{NH}_3)_2\text{SO}_4$
PHONE: (303) 659-3643
EMERGENCY: (303) 659-3643

SECTION II HAZARDOUS COMPONENTS OF MIXTURES

INGREDIENTS	CAS#	% BY WT.	THRESHOLD LIMIT VALUE
Ammonium Sulfate	7783-20-2	95%	

SECTION III TYPICAL PHYSICAL DATA

BOILING POINT (F): N.A
VAPOR PRESSURE: NA
EVAPORATION RATE: NA
PERCENT VOLATILE BY VOLUME: NA
APPEARANCE AND ODOR: Colorless to dark brown crystals or granules. No odor.

SOLUBILITY IN WATER: 38% solution @ 20 C
VAPOR DENSITY (AIR-1): NA
SPECIFIC GRAVITY (H₂O=1): 1.77

SECTION IV-FIRE AND EXPLOSION- HAZARD DATA

FLASH POINT (METHOD): NA
FIRE EXTINGUISHING MEDIA: Use water in flooding quantities.
SPECIAL FIRE FIGHTING PROCEDURES: Since toxic gases may be released violently at high temperatures, fire fighters should wear full protective clothing and NOISH-approved, self contained breathing apparatus. Use water to keep fire exposed containers cool.
UNUSUAL FIRE AND EXPLOSION HAZARD: Decomposes at elevated temperatures to produce toxic fumes of ammonia and sulfur oxides. If mixed with strong oxidizers such as ammonium nitrate, potassium nitrate, nitrate or chlorate, a vigorous reaction or explosion may occur.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: None Established
EFFECTS OF OVER EXPOSURE:
EYES: Contact with dust or mist may cause eye irritation.
SKIN: Irritation may result from prolonged skin contact.
INHALATION: Dust inhalation may irritate nose, throat and lungs.
INGESTION: Not generally considered toxic. If swallowed, irritation may develop in the mouth, esophagus, stomach, etc. The sulfate ion may cause purging.

EMERGENCY AND FIRST AID PROCEDURES:

SKIN: Wash promptly with soap and water and flush with water until chemical is removed. Remove any contaminated clothing and wash before reuse. Get medical attention for irritation.
EYES: Immediately flush eye with running water for at least 15 minutes. Get medical attention.
INHALATION: Remove to fresh air. If breathing is difficult, give oxygen if a qualified operator is available. Get medical attention for irritation or discomfort.
INGESTION: Dilute with 2 to 4 glasses of water and induce vomiting. If symptoms develop, seek medical attention.

SECTION VI - REACTIVITY DATA

STABILITY: Stable under normal conditions. Avoid temperatures above 536 F - decomposes.
INCOMPATIBILITY: Oxidizers: e.g., potassium sulfate, nitrate, chlorate; also, chlorine and hypochlorite. Avoid contact with zinc-clad, copper and copper bearing materials.
HAZARDOUS DECOMPOSITION PRODUCTS: Ammonia and sulfur trioxide and sulfur dioxide gases.
HAZARDOUS POLYMERIZATION: Will Not Occur

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Stop discharge if possible. Keep people away. Wear protective clothing. Refer to Section VIII and contact appropriate safety personnel for respirator requirements. Avoid excessive contact with the solid and dust. Keep out of water sources and sewer. Carefully sweep up and place in appropriate containers. Clean dry material may be reclaimed for use.
WASTE DISPOSAL (INSURE CONFORMITY WITH ALL APPLICABLE DISPOSAL REGULATIONS): Place in an approved landfill.

SECTION VIII - PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Wear dust or misty conditions require it, use a NIOSH approved dust or mist respirator for needed protection. Equipment per requirements of 29 CFR Part 1910.134 (OSHA)
VENTILATION: Provide local exhaust, if dusty conditions prevail.
SKIN PROTECTION: To minimize skin contact, wear long-sleeve shirt, trousers and gloves for routine product handling.
EYE PROTECTION: Under dusty or misty conditions, wear chemical goggles. Do not wear contact lenses.

SECTION IX - HANDLING AND STORAGE PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in cool, dry, well ventilated area.
OTHER PRECAUTIONS: Avoid excessive eye and skin contact.