

MATERIAL SAFETY DATA SHEET

PART NUMBER: R-511
IDENTITY: FAS TITRANT
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DATE REVISED: 01/26/11
PREPARED BY: R. MORRISON
REVISED BY: T. PHILLIPS

SECTION 1--MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS	CAS#	%	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
FERROUS AMMONIUM SULFATE HEXAHYDRATE	10045-89-3	.1	N/A	N/A	N/A
SULFURIC ACID	7664-93-9	.05	TWA 1mg/m ³	TWA 1mg/m ³	DFG MAK: 1mg/m ³
NON-HAZARDOUS INGREDIENTS TOTAL		99.85 100			

No health hazard or other information is available for the solution of the mixture. The following sections are based on information obtained from <http://www.jtbaker.com/msds/englishhtml/F1616.htm> <http://www.jtbaker.com/msds/englishhtml/S8236.htm> and our best scientific understanding of the solution.

SECTION 2--PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT 100°C
SPECIFIC GRAVITY (H₂O = 1) 1.0
VAPOR PRESSURE (mm Hg/TEMPERATURE) 24 mmHg @ 25°C
MELTING POINT N/A
VAPOR DENSITY (AIR = 1) SIMILAR TO WATER
EVAPORATION RATE (= 1) N/A
SOLUBILITY IN WATER COMPLETE
WATER REACTIVE N/A
APPEARANCE AND ODOR COLORLESS, IRON METAL ODOR

SECTION 3--FIRE AND EXPLOSION HAZARD DATA

FLASH POINT AND METHOD USED N/A
AUTO IGNITION TEMPERATURE N/A
FLAMMABILITY LIMITS IN AIR % BY VOLUME N/A
LEL N/A
UEL N/A
EXTINGUISHER MEDIA N/A
SPECIAL FIRE FIGHTING PROCEDURES N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS: THIS IS AN AQUEOUS SOLUTION WHICH IS NOT EXPLOSIVE OR FLAMMABLE.

SECTION 4--REACTIVITY HAZARD DATA

STABILITY: STABLE X UNSTABLE
CONDITIONS TO AVOID: NONE
INCOMPATIBILITY (MATERIALS TO AVOID): NONE
HAZARDOUS DECOMPOSITION PRODUCTS: NONE

HAZARDOUS POLYMERIZATION: MAY OCCUR___ WILL NOT OCCUR X
HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID: DOES NOT POLYMERIZE

SECTION 5--HEALTH HAZARD DATA: R-511

PRIMARY ROUTES OF ENTRY: INHALATION X SKIN ABSORPTION___
INGESTION X NOT HAZARDOUS___

CARCINOGEN LISTED: NTP___ IARC___ OSHA___ NOT LISTED X

HEALTH HAZARDS

ACUTE: UNKNOWN

CHRONIC: UNKNOWN

SIGNS AND SYMPTOMS OF EXPOSURE: MINOR NAUSEA DUE TO SLIGHT METALLIC ODOR

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: UNKNOWN

EMERGENCY FIRST AID PROCEDURES:

EYE CONTACT: FLUSH WITH COLD WATER 15 MINUTES.

SKIN CONTACT: WASH THOROUGHLY WITH SOAP AND WATER.

INHALATION: MOVE TO FRESH AIR.

INGESTION: SEEK MEDICAL ASSISTANCE.

SECTION 6--CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSHA/MSHA APPROVED RESPIRATOR

PROTECTIVE GLOVES: YES

EYE PROTECTION: YES

VENTILATION TO BE USED

LOCAL EXHAUST: RECOMMENDED

MECHANICAL (GENERAL): REQUIRED

SPECIAL: N/A

OTHER (SPECIFY): N/A

PROTECTIVE CLOTHING AND EQUIPMENT: LAB COAT/APRON

HYGIENIC WORK PRACTICES: WASH HANDS THOROUGHLY AFTER HANDLING.

SECTION 7--PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: RINSE AREA WITH WATER;
MOP.

WASTE DISPOSAL METHODS: DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL
REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE IN DRY, ROOM-TEMPERATURE
AREA.

OTHER PRECAUTIONS AND/OR SPECIAL HAZARDS: N/A

RATING:

HEALTH 3 FLAMMABILITY 0 REACTIVITY 0 SPECIFIC___