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MATERIAL SAFETY DATA SHEET:
AMMONIUM SULFATE
CATALOG NUMBER: AB00110

SECTION I – PRODUCT INFORMATION

PRODUCT NAME: AMMONIUM SULFATE
GRADE: ULTRA PURE
PHYSICAL DESCRIPTION: WHITE CRYSTALLINE

SECTION II – COMPOSITION/INFORMATION ON INGREDIENT

SUBSTANCE NAME: AMMONIUM SULFATE
CAS NUMBER: 7783-20-2
SARA 313: NO
FORMULA: (NH₄)₂SO₄
FORMULA WEIGHT: 132.14
RTECS NUMBER: BS4500000

SECTION III – HAZARDS IDENTIFICATION

HMIS RATING
HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0
NFPA RATING
HEALTH: 0
FLAMMABILITY: 0
REACTIVITY: 0

FOR ADDITIONAL INFORMATION ON TOXICITY, PLEASE REFER TO SECTION II.

SECTION IV – FIRST AID MEASURES

ORAL EXPOSURE: IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.
INHALATION EXPOSURE: IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
DERMAL EXPOSURE: IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF.
EYE EXPOSURE: IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

SECTION V – FIRE FIGHTING MEASURES

FLASH POINT: N/A
AUTOIGNITION TEMP: N/A
FLAMMABILITY: N/A
EXTINGUISHING MEDIA: SUITABLE: WATER SPRAY. CARBON DIOXIDE, DRY CHEMICAL POWDER, OR APPROPRIATE FOAM.

FIREFIGHTING: PROTECTIVE EQUIPMENT: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES. SPECIFIC HAZARDS: EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION VI – ACCIDENTAL RELEASE MEASURES

PROCEDURES OF PERSONAL PRECAUTIONS: EXERCISE APPROPRIATE PRECAUTIONS TO MINIMIZE DIRECT CONTACT WITH SKIN OR EYES AND PREVENT INHALATION OF DUST. METHODS FOR CLEANING UP: SWEEP UP, PLACE IN A BATG AND HOLD FOR WASTED DISPOSAL. AVOID RAISING DUST. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION VII – HANDLING AND STORAGE

HANDLING: USER EXPOSURE – AVOID INHALATION. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE.

STORAGE: SUITABLE: KEEP TIGHTLY CLOSED.

SECTION VIII – EXPOSURE CONTROLS/PPE

ENGINEERING CONTROLS: SAFETY SHOWER AND EYE BATH. MECHANICAL EXHAUST REQUIRED.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY: WEAR DUST MASK

HAND: PROTECTIVE GLOVES

EYE: CHEMICAL SAFETY GOGGLES.

GENERAL HYGIENE MEASURES: WASH THOROUGHLY AFTER HANDLING.

SECTION IX – PHYSICAL/CHEMICAL PROPERTIES

APPEARANCE: PHYSICAL STATE: SOLID

COLOR: COLORLESS

FORM: CRYSTALS

MOLECULAR WEIGHT: 132.14 AMU

PH: 5 – 6

MP/MP RANGE: >280°C

SG/DENSITY: 1.77 G/CM³

PARTITION COEFFICIENT: LOG KOW: -5.1 AT 25°C

REFRACTIVE INDEX: 1.396

SOLUBILITY: SOLUBILITY IN WATER: 1M IN H₂O, 20°C COMPLETE, COLORLESS

SECTION X – STABILITY AND REACTIVITY

STABILITY: STABLE

MATERIALS TO AVOID: STRONG OXIDIZING AGENTS, STRONG BASES.

HAZARDOUS DECOMPOSITION PRODUCTS – AMMONIA, NITROGEN OXIDES, SULFUR OXIDES

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION XI – TOXICOLOGICAL INFORMATION

ROUTE OF EXPOSURE

SKIN CONTACT: MAY CAUSE SKIN IRRITATION

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN

EYE CONTACT: MAY CAUSE EYE IRRITATION

INHALATION: MAY BE HARMFUL IF INHALED. MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.

INGESTION: MAY BE HARMFUL IF SWALLOWED.

SECTION XII – ECOLOGICAL INFORMATION

NO DATA AVAILABLE.

SECTION XIII – DISPOSAL CONSIDERATIONS

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL. DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION XIV – TRANSPORT INFORMATION

DOT – PROPER SHIPPING NAME: NONE

NON-HAZARDOUS FOR TRANSPORT: THIS SUBSTANCE IS CONSIDERED TO BE NON-HAZARDOUS FOR TRANSPORT.

IATA – NON-HAZARDOUS FOR AIR TRANSPORT

SECTION XV – REGULATORY INFORMATION

UNITED STATES REGULATORY INFORMATION – SARA LISTED: NO

TSCA INVENTORY ITEM: YES

CANADA REGULATORY INFORMATION

WHMIS CLASSIFICATION: THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR, AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

DSL: YES

NDSL: NO

SECTION XVI – OTHER INFORMATION

FOR R&D USE ONLY. NOT FOR DRUG, HOUSEHOLD OR OTHER USES.

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