



## MATERIAL SAFETY DATA SHEET

### SECTION 1 - SUBSTANCE IDENTITY AND COMPANY INFORMATION

**Product Name: Kanamycin Sulfate**  
**ATCC Catalog No.: 60-2001**

COMPANY INFORMATION: AMERICAN TYPE CULTURE COLLECTION  
PO BOX 1549  
MANASSAS, VA 20108

FOR INFORMATION CALL: 800-638-6597 or 703-365-2700

AFTER-HOURS CONTACT: 703-365-2710

CHEMTREC EMERGENCY: 800-424-9300 or 703-527-3887

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS NUMBER	EC NUMBER (EINECS)	
KANAMYCIN SULFATE	25389-94-0	246-933-9	

### SECTION 3 - HAZARDS IDENTIFICATION

***EMERGENCY OVERVIEW:***

TOXIC.

MAY CAUSE HARM TO THE UNBORN CHILD.

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

***TARGET ORGANS:***

KIDNEYS, AUDITORY SYSTEM.

### SECTION 4 - FIRST AID MEASURES

EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

SKIN: IMMEDIATELY WASH SKIN WITH SOAP AND PLENTY OF WATER.

INGESTION: WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. DO NOT INDUCE VOMITING. CALL A PHYSICIAN.

INHALATION: REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, CALL A PHYSICIAN.

### SECTION 5 - FIRE FIGHTING MEASURES

***EXTINGUISHING MEDIA:***

NONCOMBUSTIBLE.

USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

***SPECIAL FIREFIGHTING PROCEDURES:***

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

**UNUSUAL FIRE AND EXPLOSIONS HAZARDS:**  
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY RUBBER GLOVES.  
SWEEP UP CAREFULLY TO AVOID CREATING AIRBORNE DUST.  
PLACE IN A SUITABLE CONTAINER, SEAL, LABEL, AND HOLD FOR WASTE DISPOSAL.  
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE. EVACUATE.

**SECTION 7 - HANDLING AND STORAGE**

STORE AT ROOM TEMPERATURES (15 to 30 C). KEEP CONTAINER TIGHTLY CLOSED.

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.  
MECHANICAL EXHAUST REQUIRED.  
SAFETY SHOWER AND EYE BATH.  
DO NOT BREATHE DUST. DO NOT GET IN EYES, ON SKIN, ON CLOTHING.  
AVOID PROLONGED OR REPEATED EXPOSURE.  
WASH THOROUGHLY AFTER HANDLING.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

***APPEARANCE AND ODOR:***

DRY ODORLESS, COLORLESS TO WHITE POWDER.

**SECTION 10 - STABILITY AND REACTIVITY**

***INCOMPATIBILITIES:***  
STRONG OXIDIZING AGENTS.

***HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:***  
TOXIC FUMES OF CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES

***HAZARDOUS POLYMERIZATION:***  
WILL NOT OCCUR.

***STABILITY:***  
STABLE UNDER NORMAL STORAGE AND HANDLING CONDITIONS.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

***ACUTE EFFECTS:***

MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.  
MAY CAUSE EYE IRRITATION.

MAY CAUSE SKIN IRRITATION.  
MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.  
PROLONGED OR REPEATED EXPOSURE MAY CAUSE ALLERGIC REACTIONS IN CERTAIN SENSITIVE INDIVIDUALS.

**CHRONIC EFFECTS.**

***TARGET ORGANS:***

KIDNEYS, AUDITORY SYSTEM.

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

***RTECS #: NZ3225030***

KANAMYCIN, SULFATE (1:1) (SALT)

***TOXICITY DATA:***

LD 50 - ORAL, MOUSE = 17500 MG/KG

LD 50 - ORAL, RAT = >4 GM/KG

LD 50 - ORAL, RABBIT = >3 GM/KG

***TARGET ORGAN DATA:***

SENSORY ORGANS AND SPECIAL SENSES (CHANGE IN ACUITY)

BEHAVIORAL (CHANGE IN MOTOR ACTIVITY)

LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)

EFFECTS ON EMBRYO OR FETUS (FETOTOXICITY)

EFFECTS ON EMBRYO OR FETUS (FETAL DEATH)

SPECIFIC DEVELOPMENTAL ABNORMALITIES (MUSCULOSKELETAL SYSTEM)

NUTRITIONAL AND GROSS METABOLIC (BODY TEMPERATURE DECREASE)

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR MORE COMPLETE INFORMATION.

**SECTION 12 -**

**ECOLOGICAL INFORMATION**

DATA NOT AVAILABLE.

**SECTION 13 -**

**DISPOSAL CONSIDERATIONS**

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 14 -**

**TRANSPORT INFORMATION**

THIS PRODUCT CONTAINS NO HAZARDOUS SUBSTANCES AS DEFINED BY THE DEPARTMENT OF TRANSPORTATION REGULATIONS, CODIFIED IN TITLE 49 CFR SECTION 171.8 AT REPORTABLE QUANTITIES ACCORDING TO TABLE 1 OF APPENDIX A OF 49 CFR §172.101.

SCHEDULE B NUMBER: 3003.10.0000

**SECTION 15 -**

**REGULATORY INFORMATION**

***U.S. INFORMATION:***

CALIF. PROP. 65: THIS PRODUCT IS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE DEVELOPMENTAL TOXICITY.

***EUROPEAN INFORMATION:***

SYMBOL OF DANGER - T

TOXIC.

RISK PHRASES - 61

MAY CAUSE HARM TO THE UNBORN CHILD.

SAFETY PHRASES - 22, 36/37/39, 45

DO NOT BREATHE DUST.

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

***REVIEWS, STANDARDS, AND REGULATIONS:***

OEL = MAK

NOES 1983: HZD X4729; NIS 2; TNF 320; NOS 6; TNE 11433; TFE 8118

**SECTION 16 -**

**OTHER INFORMATION**

THE INFORMATION PRESENTED IN THIS DOCUMENT IS BELIEVED TO BE CORRECT BASED UPON DATA AVAILABLE TO ATCC. USERS SHOULD MAKE AN INDEPENDENT DECISION REGARDING THE ACCURACY OF THIS INFORMATION BASED ON THEIR NEEDS AND DATA AVAILABLE TO THEM. ALL SUBSTANCES AND MIXTURES MAY PRESENT UNKNOWN HAZARDS AND ALL NECESSARY SAFETY PRECAUTIONS SHOULD BE TAKEN. ATCC ASSUMES NO LIABILITY RESULTING FROM USING OR COMING IN CONTACT WITH THIS SUBSTANCE.

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