

BIO BASIC INC.

160 TORBAY ROAD, MARKHAM ONTARIO L3R 1G6 CANADA
TEL: (905) 474 4493, (800) 313 7224 FAX: (905) 474 5794

MATERIAL SAFETY DATA SHEET

REQUIRED UNDER SAFETY AND HEALTH REGULATION FOR SHIP REPAIRING

MANUFACTURER'S NAME: BIO BASIC INC.
TEL: (905) 474 4493
FAX: (905) 474 5794
FOR CHEMICAL EMERGENCY: (416) 995 9730
ADDRESS: 160 TORBAY ROAD, MARKHAM ONTARIO L3R 1G6 CANADA

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : CYCLOSPORIN A
PRODUCT NUMBER : CB0352

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

SYNONYMS : ANTIBIOTIC S 7481F1
CYCLOSPORINE
FORMULA : C₆₂H₁₁₁N₁₁O₁₂
MOLECULAR WEIGHT : 1,202.00 G/MOL
CAS-NO. EC-NO. INDEX-NO. CONCENTRATION [%]
CYCLOSPORIN A
59865-13-3 - - -

SECTION 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

TARGET ORGANS

IMMUNE SYSTEM., KIDNEY, LIVER, BLOOD

WHMIS CLASSIFICATION

D2A VERY TOXIC MATERIAL CAUSING OTHER TOXIC
EFFECTS

CARCINOGEN

HMIS CLASSIFICATION

HEALTH HAZARD: 1

CHRONIC HEALTH HAZARD: *

FLAMMABILITY: 0

PHYSICAL HAZARDS: 0

POTENTIAL HEALTH EFFECTS

INHALATION MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION.

SKIN MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION.

EYES MAY CAUSE EYE IRRITATION.

INGESTION MAY BE HARMFUL IF SWALLOWED.

SECTION 4. FIRST AID MEASURES

GENERAL ADVICE

CONSULT A PHYSICIAN. SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE. MOVE OUT OF DANGEROUS AREA.

IF INHALED

IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION

CONSULT A PHYSICIAN.

IN CASE OF SKIN CONTACT

WASH OFF WITH SOAP AND PLENTY OF WATER. CONSULT A PHYSICIAN.

IN CASE OF EYE CONTACT

RINSE THOROUGHLY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND CONSULT A PHYSICIAN.
IF SWALLOWED
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER.
CONSULT A PHYSICIAN.

SECTION 5. FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT NO DATA AVAILABLE

IGNITION TEMPERATURE NO DATA AVAILABLE

SUITABLE EXTINGUISHING MEDIA

USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

WEAR SELF CONTAINED BREATHING APPARATUS FOR FIRE FIGHTING IF NECESSARY.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

USE PERSONAL PROTECTIVE EQUIPMENT. AVOID DUST FORMATION. AVOID BREATHING DUST. ENSURE ADEQUATE VENTILATION.

EVACUATE PERSONNEL TO SAFE AREAS.

ENVIRONMENTAL PRECAUTIONS

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS.

METHODS FOR CLEANING UP

PICK UP AND ARRANGE DISPOSAL WITHOUT CREATING DUST. KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.

SECTION 7. HANDLING AND STORAGE

HANDLING

AVOID EXPOSURE - OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. AVOID FORMATION OF DUST AND AEROSOLS.

PROVIDE APPROPRIATE EXHAUST VENTILATION AT PLACES WHERE DUST IS FORMED. NORMAL MEASURES FOR PREVENTIVE FIRE PROTECTION.

STORAGE

KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTAINS NO SUBSTANCES WITH OCCUPATIONAL EXPOSURE LIMIT VALUES.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION

WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING RESPIRATORS ARE APPROPRIATE USE A FULL-FACE PARTICLE RESPIRATOR TYPE N99

(US) OR TYPE P2 (EN 143) RESPIRATOR CARTRIDGES AS A BACKUP TO ENGINEERING CONTROLS. IF THE RESPIRATOR IS THE SOLE

MEANS OF PROTECTION, USE A FULL-FACE SUPPLIED AIR RESPIRATOR. USE RESPIRATORS AND COMPONENTS TESTED AND APPROVED

UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR CEN (EU).

HAND PROTECTION

HANDLE WITH GLOVES.

EYE PROTECTION

SAFETY GLASSES

SKIN AND BODY PROTECTION

CHOOSE BODY PROTECTION ACCORDING TO THE AMOUNT AND CONCENTRATION OF THE DANGEROUS SUBSTANCE AT THE WORK PLACE.

HYGIENE MEASURES

AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WASH HANDS BEFORE BREAKS AND IMMEDIATELY AFTER HANDLING THE PRODUCT.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

FORM POWDER

COLOUR WHITE

SAFETY DATA

PH NO DATA AVAILABLE

MELTING POINT NO DATA AVAILABLE

BOILING POINT NO DATA AVAILABLE

FLASH POINT NO DATA AVAILABLE

IGNITION TEMPERATURE NO DATA AVAILABLE

LOWER EXPLOSION LIMIT NO DATA AVAILABLE

UPPER EXPLOSION LIMIT NO DATA AVAILABLE

WATER SOLUBILITY NO DATA AVAILABLE

SECTION 10. STABILITY AND REACTIVITY

STORAGE STABILITY

STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

CONDITIONS TO AVOID

HEAT.

MATERIALS TO AVOID

ALKALI METALS, ALUMINUM, STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS DECOMPOSITION PRODUCTS FORMED UNDER FIRE CONDITIONS.

CARBON OXIDES, NITROGEN OXIDES (NOX)

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

LD50 ORAL - RAT - 1,480 MG/KG

REMARKS: BEHAVIORAL: MUSCLE CONTRACTION OR SPASTICITY. DIARRHOEA SKIN AND APPENDAGES:
OTHER: HAIR.

IRRITATION AND CORROSION

NO DATA AVAILABLE

SENSITISATION

NO DATA AVAILABLE

CHRONIC EXPOSURE

MAY CAUSE REPRODUCTIVE DISORDERS.

SIGNS AND SYMPTOMS OF EXPOSURE

NAUSEA, VOMITING, TREMORS, DIARRHOEA, ELEVATED BLOOD PRESSURE, TO THE BEST OF OUR
KNOWLEDGE, THE CHEMICAL,
PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

POTENTIAL HEALTH EFFECTS

INHALATION MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION.

SKIN MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION.

EYES MAY CAUSE EYE IRRITATION.

INGESTION MAY BE HARMFUL IF SWALLOWED.

TARGET ORGANS IMMUNE SYSTEM., KIDNEY, LIVER, BLOOD,

SECTION 12. ECOLOGICAL INFORMATION

E LIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)

NO DATA AVAILABLE

E COTOXICITY EFFECTS

NO DATA AVAILABLE

FURTHER INFORMATION ON ECOLOGY

NO DATA AVAILABLE

SECTION 13. DISPOSAL CONSIDERATIONS

PRODUCT

OBSERVE ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS. 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. CONTAMINATED PACKAGING DISPOSE OF AS UNUSED PRODUCT.

SECTION 14. TRANSPORT INFORMATION

DOT (US)
NOT DANGEROUS GOODS
IMDG
NOT DANGEROUS GOODS
IATA
NOT DANGEROUS GOODS

SECTION 15. REGULATORY INFORMATION

TSCA STATUS
NOT ON TSCA INVENTORY
CYCLOSPORIN A
CAS-NO.
59865-13-3
DSL STATUS
ALL COMPONENTS OF THIS PRODUCT ARE ON THE CANADIAN DSL LIST.
WHMIS CLASSIFICATION
D2A VERY TOXIC MATERIAL CAUSING OTHER TOXIC EFFECTS
CARCINOGEN

SECTION 16 - OTHER INFORMATION

DISCLAIMER
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