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BECTON-DICKINSON MICROBIOLOGY SYSTEMS INC -- BIOBAG TYPE A 4361214

6640-01-231-7244

============= Product Identification =================

Product ID:BIOBAG TYPE A 4361214

MSDS Date:11/07/1990

FSC:6640

NIIN:01-231-7244

MSDS Number: BVHJW === Responsible Party ===

Company Name: BECTON-DICKINSON MICROBIOLOGY SYSTEMS INC

Address:250 SCHILLING CIR

Box:243

City:COCKEYSVILLE

State:MD ZIP:21030 Country:US

Info Phone Num:4

10-785-6257

Emergency Phone Num:410-785-6257

CAGE:05545

=== Contractor Identification ===

Company Name: BECTON DICKINSON AND CO MICROBIOLOGY SYSTEMS DIV

Address:250 SCHILLING CIRCLE

Box:City:HUNT VALLEY

State:MD

ZIP:21030-1103 Country:US

Phone:410-771-0101

CAGE:05545

======= Composition/Information on Ingredients ========

Ingred Name: HYDROGEN CHLORIDE (HYDROCHLORIC ACID) (SARA III)

CAS:7647-01-0

RTECS #:MW4025000 Fraction by Wt: 100% %

Other REC Limits: NONE RECOMMENDED

OSHA PEL:C

5 PPM ACGIH TLV:C 5 PPM; 9394 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name: SODIUM HYDROXIDE (SARA III)

CAS:1310-73-2

RTECS #:WB4900000 Fraction by Wt: 15.4% %

Other REC Limits: NONE RECOMMENDED

OSHA PEL:2 MG/M3

ACGIH TLV:C 2 MG/M3; 9394

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name: POTASSIUM BOROHYDRIDE

CAS:13762-51-1 RTECS #:TS7525000 Fraction by Wt: 12.0%

Other REC Limits: NONE RECOMMENDED

============ Hazards Identification =========================

LD50 LC50 Mixtu

re:NOT GIVEN FOR PRODUCT AS A WHOLE

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:WILL CAUSE EYE IRRITATION. MAY CAUSE PERMANENT EYE INJURY. WILL CAUSE SKIN IRRITATION. MAY CAUSE BURNING SENSATION TO SKIN. INGESTION CAN CAUSE BURNING OF THROAT. INHALATION MAY CAUSE IRRITATION, BURN ING OF RESPIRATORY TRACT.

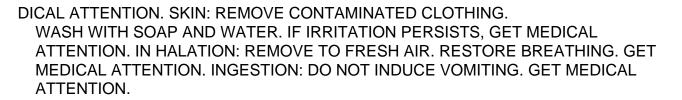
Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCEN

TRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Effects of Overexposure:EYE IRRITATION, SKIN IRRITATION, UPPER RESPIRATORY TRACT IRRITATION, BURNING OF THROAT, EYE INJURY.

Medical Cond Aggravated by Exposure:PRE-EXISTING SKIN AND/OR RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET ME



============ Fire Fighting Measures ==============

Flash Point:NONFLAMMABLE Lower Limits:NOT GIVEN Upper Limits:NOT GIVEN

Extinguishing Media:CARBON DIOXIDE, CLASS D FIRE EXTINGUISHING MATERIAL

Fire Fight

ing Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE.

Unusual Fire/Explosion Hazard:POTASSIUM BOROHYDRRIDE WILL REACT WITH WATER GENERATING HYDROGEN GAS. LIQUID CONTAINED IN AMPULE WILL NOT BURN.

======== Accidental Release Measures ============

Spill Release Procedures:WEARING GLOVES ABSORB ANY LIQUID ONTO PAPER TOWELS. PICKUP ALL OHTER CONTAMINATED MATERIAAL AND PLACE IN BIOBAG. AUTOCLAVE ALL

MATERIAL BEFORE DISCARDING. DISINFECT THE EXPOSED AREA ACCORDING TO ESTAB LISHED PRECAUTIONS AGAINST MICROBIOLOGICAL HAZARDS

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

=========== Handling and Storage ==============

Handling and Storage Precautions:OBSERVE ESTABLISHED PRECAUTIONS
AGAINST MICROBIOLOGICAL HAZRDS THROUGHOUT ALL PROCEDURES.
Other Precautions:PRIOR TO DISCARDING STERILIZE SPECIMEN CONTAINERS AND
OTHER CONTAMINATED MATERIALS BY AUTOCLAVIN

G. ALL USUAL PRECAUTIONS
ATTENDANT TO HANDLING HYDROGEN GAAS SHOULD BE OBSERVED WHEN EMPLOYING THIS PROD UCT.

===== Exposure Controls/Personal Protection ========

Respiratory Protection: NOT NORMALLY REQUIRED.

Ventilation:LOCAL EXHAUST AND MECHANICAL (GENERAL) VENTILATION TO MAINTAIN EXPOSURE LEVELS.

Protective Gloves:LATEX

Eye Protection: SAFETY GLASSES OR GOGGLES

Other Protective Equipment:PROTECTIVE CLOTHING AS REQUIRED TO AVOID SKIN CONTACT. AN EMERGENCY EYE WA

SH STATION AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices:WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT AND BEFORE EATING DRINKING OR SMOKING.

Supplemental Safety and Health

POTASSIUM BOROHYDRIDE IS THE WATER-REACTIVE METAL HYDRIDE IN THIS PRODUCT AND CONSTITUTES 12.0 % OF THE PELLET. PRODUCT CONSISIT OF ONE ANAEROBIC GAS GENERATING UNIT CONTAINING: ONE AMPULE OF DILUTE H CL, ONE GAS GENERATING PILL WITH 12 % POTASSIU BOROHYDRIDE, DESICCANT, BIOBAG INCUBATION B

AG TYPE A WITH CATALYST.

| ======================================= | Ph | ysical/Chemical | Pro | perties | |
|---|----|-----------------|-----|---------|--|
|---|----|-----------------|-----|---------|--|

HCC:N1

Boiling Pt:B.P. Text:NOT GIVEN

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN

Vapor Pres:NOT GIVEN Vapor Density:NOT GIVEN Spec Gravity:NOT GIVEN

Evaporation Rate & Evaporation R

Solubility in Water: NOT GIVEN

Appearance and Odor:1 AMPULE OF DILUTE HCL, ONE PILL WITH 12% POTASSIUM

BOROHYDRIDE, METAL CATALYST

======== Stability and Reactivity Data ==========

Stability Ind icator/Materials to Avoid:YES ACIDS, ALCOHOLS Stability Condition to Avoid:HEAT, OPEN FLAME Hazardous Decomposition Products:HYDROGEN GAS

====== Disposal Considerations ===========

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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