WARDS NATURAL SCIENCE ESTABLISHMENT INC -- IODINE SOLUTION FOR GRAMS STAIN -- -

Product ID: IODINE SOLUTION FOR GRAMS STAIN

MSDS Date:04/05/1995 FSC:NIIN:Submitter:D DG

Status Code:A

MSDS Number: CKGLB

=== Responsible Party ===

Company Name: WARDS NATURAL SCIENCE ESTABLISHMENT INC

Address:5100 W HENRIETTA RD

City: ROCHESTER

State:NY ZIP:14692 Country:US

Info Phone Num: (716) 359-2502 OR 800-962-2660

Emergency Phone Num:716-226-6177 Resp. Party Other MSDS Num:IX 180 Preparer's Name:MICHAEL RASZEJA Chemtrec Ind/Phone: (800)424-9300

CAGE: 63759

=== Contractor Identification ===

Company Name: WARDS NATURAL SCIENCE ESTABLISHMENT INC

Address:5100 W HENRIETTA RD

Box:92912

City: ROCHESTER

State:NY

ZIP:14692-9012

Country: US

Phone: (716) 359-2502

CAGE: 63759

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

Ingred Name:IODINE
CAS:7553-56-2
RTECS #:NN1575000

= Wt:2.

OSHA PEL:C1 MG/M3;C0.1 PPM ACGIH STEL:C1.0 MG/M3;C0.1 PPM

Ingred Name: POTASSIUM IODIDE

CAS:7681-11-0 RTECS #:TT2975000

= Wt:3.

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
= Wt:95.

Effects of Overexposure: CONTACT AS FUMES OR SOUTION IS INTENSELY IRRITATING TO EYES, SKIN AND MUCOUS MEMBRANES. MAY CAUSE DELAYED

LUNG INJURY. INGESTION: OF LARGE QUANTITIES CAUSES ABDOMINAL PAIN, VOMITING AND DIARRHEA. IN S EVERE CAUSES PURGING, EXCESSIVE THRIST AND CIRCULATORY FAILURE MAY DEVELOP.

First Aid:INGESTION: IF SWALLOWED, IF CONSCIOUS, GIVE ONE OR TWO GLASSES OF MILK, FOLLOWED BY A STARCH, FLOUR OR EGG WHITE, AS A SOLUTION. GET IMMEDIATE MEDICAL ATTENTION. EYES: IN CASE OF CONTACT, FLUSH EYES THOROUGHLY WITH WATER, HOLDING EYELIDS OPEN, FLUSH THOROUGHLY WITH WATER. GET IMMEDIATE MEDICAL ATTENTION. INHALATION: IF INHALED, REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPI RATION. GET IMMEDIATE MEDICAL ATTENTION. SKIN:FLUSH THOROUGHLY WITH WATER.

Flash Point: NON-FLAMMABLE

Extinguishing Media: USE ANY MEDIA SUITABLE FOR EXTINGHISHING SUPPORTING FIRE.

Fire Fighting Procedures: IN FIRE CONDITIONS, WEAR A NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. USE FLOODING AMOUNTS OF WATER IN EARLY STAGES OF FIRE.

Unusual Fire/Explosion Hazard: WHEN HEATED, EMITS TOXIC AND CORROSIVE, VIOLENT IN COLOR, FUMES OF IODINE. IODINE IS CORROSIVE TO METALS AND TO ALL BODY TISSUE.

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

Spill Release Procedures: ABSORB SPILL ON VERMICULITE, SAND, EARTH, PAPER TOWEL & PLACE IN A SUITABLE CONTAINER FOR DISPOSAL. WASH FLOOR OR SPILL AREA WITH A 5-10% SODIUM THIOSULFATE SOLUTION.

 Handling	and	Storage	

Handling and Storage Precautions: DISPOSAL- SLOWLY ADD, WHILE STIRRING SODA ASH OR SODIUM THIOSULFATE TILL ALL OF THE IODINE HAS BEEN DISSOLVED & SOLUTION IS COLORLESS. FLUSH TO SEWER WITH COPIOUS AMOUNTS OF WATER. STORAGE-STORE IN A COOL, DRY, WELL-VENTILATED AREA. REMOVE ALL CONTAMINATED CLOTHING & SHOES. KEEP CONTAINER CLOSED.

Other Precautions: READ LABEL BEFORE USING. DO NOT WEAR CONTACT LENSES WHEN WORKING WITH CHEMICALS. AVOID CONTACT WITH SKIN & EYES. CONTACT WITH SKIN WILL LEAVE YELLOW IODINE STAN. FOR LABORATORY USE ONLY. NOT FOR DRU G, HOUSEHOLD, OR FOOD USE. KEEP OUT OF REACH OF CHILDREN.

=========	Exposure	Control	ls/Personal	Protection	=========
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Respiratory Protection: NONE SHOULD BE NEEDED IN NORMAL LABORATORY HANDLING AT ROOM TEMPERATURE. IF NEEDED, WORK IN A FUME HOOD. Ventilation: LOCAL EXBAHSUT: RECOMMENDED. MECHANICAL (GENERAL): RECOMMENDED.

Protective Gloves: RUBBER .

Eve Protection: CHEMICAL SAFETY GLASSES.

Other Protective Equipment: SMOCK, APRON, EYE WASH STATION, GOGGLES, VENTILATION HOOD, PROPER GLOVES.

Work Hygienic Practices: WASH BEFORE RESUE. WASH THOROUGHLY AFTER HANDLING.
Supplemental Safety and Health
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HCC:N1 Boiling Pt:=100.C, 212.F Melt/Freeze Pt:=0.C, 32.F Vapor Pres:IODINE 1 MM @38.7C Vapor Density:0.7 (WATER Spec Gravity:1 Evaporation Rate & Reference:GREATER THAN 1 (ETHER=1) Appearance and Odor:DEEP AMBER COLOR LIQUID, IODINE ODOR. Percent Volatiles by Volume:95
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Stability Indicator/Materials to Avoid:YES CONTACT OF GASEOUS AMMONIA OR ITS SOLUTIONS WITH FREE IODINE SHOULD BE AVOIDED TO PREVENT THE FORMATION OF THE EXPLOSIVE "NITROGEN IODIDE". ACETALDEHYDE, SODIUM AZIDE, SODIUM HYDROXIDE. Stability Condition to Avoid:EXCESSIVE TEMPERATURE OR HEAT. Hazardous Decomposition Products:FREE IODINE.
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Toxicological Information: THRESHOLD LIMITED VALUE: NONE ESTABLISHED FOR THIS SOLUTION. (ACGIH 1983-94). TOXICITY: ORAL-HUMAN. TWA: AS IODINE (CEILING LIMIT) 0.1 PPM; 1 MG/M3 (AIR) LDLO: 2000 MG/KG.
========== Disposal Considerations ===========
Waste Disposal Methods: DISCHARGE, TREATMENT, OR DISPOSAL MAY BE SUBJECT TO FEDERAL, STATE OR LOCAL LAWS. THESE DISPOSAL GUIDE LINES ARE INTENDED FOR CATALOG-SIZE QUANTITIES ONLY. WORK IN A VENTILATION HOOD & WEARING PROPER SAF ETY EQUIPMENT, COLLECT WASTE IODINE IN A LARGE BEAKER. COVER WITH A LARGE VOLUME OF WATER.
========== MSDS Transport Information ==========
Transport Information: DOT: NON-REGULATED.
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