

MEDICAL CHEMICAL CORP.
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MSDS FOR: LUGOL'S IODINE CATALOG #: 652A

THE FOLLOWING INFORMATION IS BELIEVED TO BE CORRECT BUT IS NOT WARRANTED AS SUCH, NOR DOES IT PURPORT TO BE ALL INCLUSIVE

 **SECTION I - SHIPPING DATA**

DESCRIPTION: AN AQUEOUS SOLUTION OF IODINE AND POTASSIUM IODIDE IN WATER.
DOT SHIPPING NAME: NOT APPLICABLE
DOT HAZARD CLASS: NOT APPLICABLE
DOT IDENTIFICATION NUMBER: UNREGULATED

EMERGENCY TELEPHONE NUMBER: (800)424-9300
PREPARED BY: P.B.
DATE: MAY 18, 2000

 **SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

INGREDIENTS CAS# OSHA PEL ACGIH TLV %
IODINE 7553-56-2 1.0 MG/M3 1.0 MG/M3 5.0% W/V TWA CEILING TWA CEILING
POTASSIUM IODIDE 7681-11-0 10.0% W/V

 **SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

BOILING POINT: 101 DEG. C
SPECIFIC GRAVITY: 1.1
VAPOR PRESSURE (MMHg): 18 @ 20 DEG. C
EVAPORATION RATE (WATER = 1): 1

VAPOR DENSITY (AIR = 1): 0.6
SOLUBILITY IN WATER: COMPLETE
APPEARANCE AND ODOR: AN OPAQUE PURPLE SOLUTION WITH THE CHARACTERISTIC ODOR OF IODINE.

 **SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (METHOD USED): NOT APPLICABLE
FLAMMABLE LIMITS: NOT APPLICABLE
EXTINGUISHING MEDIA: NOT APPLICABLE.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA (continued)

SPECIAL FIRE FIGHTING PROCEDURES: NOT APPLICABLE

UNUSUAL FIRE AND EXPLOSION HAZARDS: PYROLYSIS WILL RELEASE CORROSIVE IODINE VAPOR.

SECTION V - REACTIVITY DATA

STABILITY: THE MATERIAL IS STABLE

CONDITIONS TO AVOID: HEAT

INCOMPATIBILITIES: NOTHING UNUSUAL.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE AT ROOM TEMPERATURE.

SECTION VI - HEALTH HAZARD DATA

ROUTES OF ENTRY:

INHALATION?: YES

SKIN?: YES

INGESTION?: YES

HEALTH HAZARDS (ACUTE AND CHRONIC):

LARGE DOSES OF IODINE CAUSE SEVERE VOMITING, DIARRHEA, ABDOMINAL PAIN, THIRST, SHOCK, FEVER, DELIRIUM, STUPOR AND DEATH. PROLONGED EXPOSURE TO IODINE COMPOUNDS MAY PRODUCE IODISM AND DEFICIENCY OF THYROID HORMONE.

CARCINOGENICITY?: NO

NTP?: NO

IARC MONOGRAPHS?: NO

OSHA REGULATED?: NO

SIGNS AND SYMPTOMS OF EXPOSURE:

MAY CAUSE CONTACT DERMATITIS. REPEATED EXPOSURE TO IODINE COMPOUNDS MAY CAUSE RASH, SWELLING OF THE VOCAL CORDS, SEVERE GENERALIZED ALLERGIC REACTION, JOINT PAIN AND SWELLING. IODINE IS ABSORBED THROUGH INTACT SKIN.

MEDICAL CONDITIONS GENERALLY AGGRAVATES BY EXPOSURE:

INDIVIDUALS WITH THYROID, LUNG OR KIDNEY DISEASE MAY WISH TO CONSULT A PHYSICIAN BEFORE WORKING WITH IODINE COMPOUNDS.

EMERGENCY AND FIRST AID PROCEDURES:

IN CASE OF EYE CONTACT, FLUSH WITH WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

IN CASE OF SKIN CONTACT, REMOVE CONTAMINATED CLOTHING AND FLUSH WITH WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

IN CASE OF INGESTION DO NOT INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR EXTREMELY DROWSY. OTHERWISE ADMINISTER TWO GLASSES OF WATER AND INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION EVEN IF SYMPTOMS IMPROVE.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE OF SPILL OR RELEASE:
ABSORB WITH A SUITABLE ABSORBENT (SUCH AS PAPER TOWELS) AND DISPOSE.

WASTE DISPOSAL METHOD:
USUALLY NOT RESTRICTED BUT LOCAL ORDINANCES VARY. IODINE MAY OFTEN BE
NEUTRALIZED WITH THIOSULFATE AND FLUSHED DOWN DRAIN WITH EXCESS WATER.
INSURE COMPLIANCE WITH ALL GOVERNMENT REGULATIONS.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: NOT REQUIRED.
VENTILATION: ORDINARY GENERAL VENTILATION IS USUALLY SUFFICIENT.

PROTECTIVE GLOVES: NOT REQUIRED.

EYE PROTECTION:
NOT REQUIRED BUT LABORATORY SAFETY GOGGLES OR SIMILAR PRODUCTS ARE
RECOMMENDED AS PART OF GOOD LABORATORY PRACTICE.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NOT REQUIRED.

WORK/HYGIENIC PRACTICES:
WASH WELL AFTER HANDLING, ESPECIALLY BEFORE EATING OR SMOKING.