

CONTROL # 022056
OUR NUMBER 579132
CUST. ORDER K80557
CATALOG # 872795

D GILLIES, BYRNE, GROS NICK
HENNINGER HIGH SCHOOL
BOVA SUPPLY CENTER
1023 ERIE BLVD WEST
SYRACUSE NY 13204

M A T E R I A L S A F E T Y D A T A S H E E T

SECTION I

PRODUCT NAME: LUGOL'S SOLUTION
SIZE: 25, 100, 500ML
CHEMICAL NAME: DOES NOT APPLY--PRODUCT IS A MIXTURE.
FORMULA: IODINE (I) - 5 G
POTASSIUM IODIDE (KI) - 10 G
DISTILLED WATER TO MAKE 100 ML.
MANUFACTURER: CAROLINA BIOLOGICAL SUPPLY COMPANY
ADDRESS: 2700 YORK ROAD
BURLINGTON, NC 27215
PRODUCT CODES: 87-2793, 87-2795
FOR INFORMATION ON HEALTH HAZARDS CALL: 1-919-584-0381
FOR OTHER INFORMATION CALL: 1-800-334-5551, (IN NC CALL 1-800-632-1231)
DATE: 06-MAR-89

SECTION II - HAZARDOUS INGREDIENTS

PRINCIPAL HAZARDOUS COMPONENTS (%):
IODINE (5%)-TLV/TWA (IODINE DUST) = .1 PPM, LD50(ORAL-RAT) = 14 G/KG
POTASSIUM IODIDE (10%)-TLV/TWA = NONE ESTABLISHED, LD50 (ORAL-MOUSE)=
1862 MG/KG.

SECTION III - PHYSICAL DATA

BOILING POINT (DEGREES F): APPROXIMATELY 100 DEGREES C
VAPOR PRESSURE (MM HG): APPROXIMATELY 17.535 AT 20 DEGREES C
VAPOR DENSITY (AIR=1): NO INFORMATION AVAILABLE
SPECIFIC GRAVITY (H2O=1): 1.0
PERCENT VOLATILE BY VOLUME: 98%
EVAPORATION RATE (WATER=1): 1
SOLUBILITY IN WATER: MIXTURE IS AN AQUEOUS SOLUTION, SOLUBILITY COMPLETE.
APPEARANCE AND ODOR: DEEP AMBER LIQUID, IODINE ODOR.

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA
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FLASH POINT (METHOD USED): NOT APPLICABLE
NFPA 704M RATING: NO INFORMATION AVAILABLE
EXTINGUISHER MEDIA: USE SUITABLE METHOD TO EXTINGUISH SURROUNDING FIRE.
FLAMMABLE LIMITS IN AIR % BY VOLUME: NOT APPLICABLE
AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE
SPECIAL FIRE FIGHTING PROCEDURES: WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE. WEAR FULL PROTECTIVE CLOTHING.
UNUSUAL FIRE AND EXPLOSION HAZARDS: WHEN HEATED TO EXCESSIVE TEMPERATURES MAY EMIT TOXIC AND CORROSIVE FUMES OF IODOINE.

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SECTION V - HEALTH HAZARD DATA
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THRESHOLD LIMIT VALUE: SEE SECTION II
EFFECTS OF OVEREXPOSURE:
ACUTE: CONTACT WITH FUMES OR LIQUID MAY BE INTENSELY IRRITATING TO EYES, SKIN, AND MUCOUS MEMBRANES.
CHRONIC: NO INFORMATION AVAILABLE
EMERGENCY AND FIRST AID PROCEDURES:
INHALATION: REMOVE TO FRESH AIR, IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION AND GET MEDICAL ATTENTION.
EYES: FLUSH THOROUGHLY WITH WATER FOR 15 MINUTES. IMMEDIATELY SEEK MEDICAL ATTENTION.
SKIN: FLUSH THOROUGHLY WITH WATER.
INGESTION: IF CONSCIOUS GIVE 2 GLASSES OF WATER AND IMMEDIATELY INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL ATTENTION.

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SECTION VI - REACTIVITY DATA
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STABILITY: UNSTABLE: STABLE: X
CONDITIONS TO AVOID: HIGH TEMPERATURES OR EXCESSIVE HEAT.
INCOMPATIBILITY (MATERIALS TO AVOID): CONTACT WITH AMMONIA FUMES MAY CAUSE
FORMATION OF EXPLOSIVE NITROIODIDE COMPOUNDS. ACETALDEHYDE, SODIUM AZIDE,
SODIUM HYDRIDE.
HAZARDOUS DECOMPOSITION PRODUCTS: FREE IODINE.
HAZARDOUS POLYMERIZATION: MAY OCCUR: WILL NOT OCCUR: X
CONDITIONS TO AVOID: NOT APPLICABLE.

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SECTION VII - SPILL OR LEAK PROCEDURES
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
SMALL SPILL: ABSORB IN VERMICULITE. WHEN SATURATED, CONTAINERIZE.
LARGE SPILL: NEUTRALIZE WITH SODIUM OR POTASSIUM BISULFITE AND SCOOP INTO
APPROPRIATE CONTAINERS FOR DISPOSAL.
WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE
AND LOCAL REGULATIONS.

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SECTION VIII - SPECIAL PROTECTION INFORMATION
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RESPIRATORY PROTECTION (SPECIFY TYPE): NONE NEEDED IF ADEQUATE VENTILATION.
IF TLV IS EXCEEDED WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS
OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.
VENTILATION:
LOCAL EXHAUST: PREFERRED MECHANICAL (GENERAL): ACCEPTABLE
SPECIAL: OTHER:
PROTECTIVE GLOVES: RUBBER
EYE PROTECTION: SPLASH PROOF GOGGLES. NEVER WEAR CONTACT LENSES WHEN WORKING
WITH CHEMICALS.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: LAB COAT, VENTILATION HOOD, EYE WASH
STATION, DRENCH-TYPE SAFETY SHOWER, LAB APRON.

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SECTION IX - SPECIAL PRECAUTIONS
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PRECAUTIONS TO BE TAKEN IN HANDLING OR STORING: STORE IN COOL, DRY
WELL-VENTILATED AREA. WASH AFTER HANDLING. WASH CONTAMINATED CLOTHING
THOROUGHLY BEFORE USING AGAIN.

OTHER PRECAUTIONS: NO INFORMATION AVAILABLE.

APPROVED BY: JIM HORNE

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