FOR TRANSPORTATION EMERGENCY CALL CHEM-TEL AT: 1(800)255-3924

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

TRADE NAME: IODU

MANUFACTURER'S NAME: AN-FO MANUFACTURING COMPANY

ADDRESS (COMPLETE MAILING ADDRESS): 3129 ELMWOOD AVE.
P.O. BOX 7311 OAKLAND, CA 94601

PHONE NUMBER FOR ADDITIONAL INFORMATION: (510) 532-2275

DATE PREPARED OR REVISED: 11/90 NAME OF PREPGRER: TJE

II. HAZARDOUS INGREDIENTS

CHEMICAL NAMES
ALPH I-(P-NONYLPHENYL) -OMEGA-HYDROXYPOLY (OXYETHYLENE) - IODINE COMPLEX

CAS NUMBERS
000 11096-42-7

PERCENT
1.8%

EXPOSURE LIMITS IN AIR (GIVE UNITS)
N/A
ACGIH TLV
OSHA PEL
OTHER (SPECIFY)

III. PHYSICAL PROPERTIES

VAPOR DENSITY (AIR=1)
DUE TO 8% WATER
Ph
1.0 - 1.5 AS IS
SPECIFIC GRAVITY
1.17
SOLUBILITY IN WATER
100%
VAPOR PRESSURE, mmHg AT 20 C
DUE TO 8% WATER
MELTING POINT OR RANGE, F
N/A
BOILING POINT OR RANGE, F
100 DEG C
EVAPORATION RATE (BUTYL ACETATE = 1)

[1%
APPEARANCE AND ODOR: BROWN LIQUID - IODINE ODOR
HOW TO DETECT THIS SUBSTANCE (WARNING PROPERTIES OF SUBSTANCE AS
A GAS, VAPOR, DUST OR MIST).

IV. FIRE AND EXPLOSION

FLASH POINT, F (GIVE METHOD)
400 DEG F (OC)
AUTO IGNITION TEMPERATURE, F
N/A
FLAMMABLE LIMITS IN AIR, VOLUME %: N/A LOWER(LEL)___
UPPER(UEL)___

FIRE EXTINGUISHING MATERIALS:
_X_ WATER SPRAY  ___ CARBON DIOXIDE  ___ OTHER:
___ FOAM  ___ DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES:
NONE KNOWN
UNUSUAL FIRE AND EXPLOSION HAZARDS:
NONE KNOWN

V. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE.

INHALED: NO DATA FOUND

CONTACT WITH SKIN OR EYES: BASED ON ANALOGOUS MATERIAL, TESTS
INDICATE A RABBIT PRIMARY IRRITATION INDEX: 1.25; MILD IRRITANT.

ABSORBED THROUGH SKIN: SAME AS CONTACT WITH SKIN.

SWALLOWED: BASED ON ANALOGOUS MATERIAL TESTS INDICATE A RAT
(INTRAGASTRIC INTUBATION) LD50: 1.90 ML/KG

HEALTH EFFECTS OR RISKS FROM EXPOSURE. EXPLAIN IN LAY TERMS. ATTACH
EXTRA PAGE IF MORE SPACE IS NEEDED.

ACUTE: INGESTION: NO EFFECTS OF EXPOSURE EXPECTED.
INHALATION: IF MISTED WILL CAUSE IRRITATION OF MUCUS MEMBRANES,
NOSE, EYES, AND THROAT. COUGHING AND DIFFICULTY IN BREATHING.
SKIN CONTACT: NO EFFECTS OF EXPOSURE EXPECTED DUE TO CONTACT.
MAY CAUSE IRRITATION OR DERMATITIS IN SOME INDIVIDUALS UPON
PROLONGED CONTACT.
EYE CONTACT: WILL CAUSE PAINFUL BURNING OR STINGING OF EYES AND
LIDS, WATERING OF EYES AND INFLAMMATION OF THE CONJUNCTIVA.
CHRONIC:

FIRST AID: EMERGENCY PROCEDURES

EYE CONTACT: FLUSH EYES WITH WATER FOR 15 MINUTES - CALL A PHYSICIAN.

SKIN CONTACT: WASH AFTER EXPOSURE

INHALED: REMOVE VICTIM TO FRESH AIR

SWALLOWED: INDUCE VOMITING.

SUSPECTED CANCER AGENT?

X NO: THIS PRODUCT'S INGREDIENTS ARE NOT FOUND IN THE LISTS BELOW.

YES: ___FEDERAL OSHA ___NTP ___IARC

CALIFORNIA EMPLOYERS USING CAL/OSHA REGULATED CARCINOGENS MUST REGISTER WITH CAL/OSHA. THE CAL/OSHA AND FEDERAL OSHA CARCINOGEN LISTS ARE SIMILAR.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

NO DATA FOUND

VI. REACTIVITY DATA

STABILITY: X STABLE ___UNSTABLE

CONDITIONS TO AVOID:

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING OR REDUCING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS (INCLUDING COMBUSTION PRODUCTS): TOXIC FUMES OF IODINE AND IODINE COMPOUNDS EMITTED WHEN HEATED TO DECOMPOSITION.
HAZARDOUS POLYMERIZATION:  _MAY OCCUR  _X_ WILL NOT OCCUR

CONDITIONS TO AVOID:

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

SPILL RESPONSE PROCEDURES (INCLUDE EMPLOYEE PROTECTION MEASURES): FLUSH SPILL AREA WITH WATER.

PREPARING WASTES FOR DISPOSAL (CONTAINER TYPES, NEUTRALIZATION, ETC.): DISPOSE OF LIQUID WASTE ACCORDING TO FEDERAL, STATE AND LOCAL REGULATIONS.

NOTE: DISPOSE OF ALL WASTES IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

VIII. SPECIAL HANDLING INFORMATION

VENTILATION AND ENGINEERING CONTROLS: USE ADEQUATE VENTILATION FOR MISTING OPERATIONS.

RESPIRATORY PROTECTION (TYPE): NONE

EYE PROTECTION (TYPE): NONE

GLOVES (SPECIFY MATERIAL): NONE

OTHER CLOTHING AND EQUIPMENT: NONE

WORK PRACTICES, HYGIENIC PRACTICES: WASH THOROUGHLY AFTER HANDLING.

OTHER HANDLING AND STORAGE REQUIREMENTS: STORE INDOORS AWAY FROM SUNLIGHT.

PROTECTIVE MEASURES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: WASH EQUIPMENT WITH WATER UNTIL CLEAN. IN ALL CASES, FOLLOW GOOD INDUSTRIAL SAFETY PRACTICES.