



chemists helping chemists in research & industry

aldrich chemical co.

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DATE: 12/13/89
CUST#: 523216
PO#: QC 3818

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

PAGE 1

IDENTIFICATION

PRODUCT #: 28956-6 NAME: IODOMETHANE, 99.5%
CAS #: 74-88-4
MF: CH3I

SYNONYMS

HALON 10001 * IODOMETANO (ITALIAN) * IODOMETHANE * IODURE DE METHYLE (FRENCH) * JOD-METHAN (GERMAN) * JOODMETHAAN (DUTCH) * METHYL IODIDE * METHYL IODIDE (ACGIH, DOT, OSHA) * METHYLJODID (GERMAN) * METHYLJODIDE (DUTCH) * METYLU JODEK (POLISH) * MONIODURO DI METILE (ITALIAN) * RCRA WASTE NUMBER U138 * UN 2644 (DOT) *

TOXICITY HAZARDS

RTECS NO: PA9450000

METHANE, IODO-

IRRITATION DATA

SKN-HMN 1 GM/10M MLD
SKN-RAT 1 GM/30M MLD

BJIMAG 7,122,50
BJIMAG 7,122,50

TL CITY DATA

IHL-RAT LC50:1300 MG/M3/4H
IPR-RAT LD50:101 MG/KG
SCU-RAT LD50:110 MG/KG
IPR-MUS LD50:172 MG/KG
SCU-MUS LD50:110 MG/KG
IPR-GPG LD50:51 MG/KG

34ZIAG -,756,69
85GMAT -,84,82
ZEKBAI 74,241,70
85GMAT -,84,82
TXAPA9 4,354,62
85GMAT -,84,82

REVIEWS, STANDARDS, AND REGULATIONS

ACGIH TLV-SUSPECTED CARCINOGEN 85INAB 5,399(86),86
ACGIH TLV-TWA 2 PPM (SKIN) 85INAB 5,399(86),86
IARC CANCER REVIEW:ANIMAL SUFFICIENT EVIDENCE IMEMDT 15,245,77
IARC CANCER REVIEW:ANIMAL LIMITED EVIDENCE IMEMDT 41,213,86
IARC CANCER REVIEW:GROUP 3 IMSUDL 7,56,87
MSHA STANDARD-AIR:TWA 5 PPM (28 MG/M3) (SKIN) DTLVS* 3,166,71
OSHA PEL:8H TWA 5 PPM (28 MG/M3)(SKIN) FEREAC 54,2923,89
OSHA PEL FINAL:8H TWA 2 PPM (10 MG/M3)(SKIN) FEREAC 54,2923,89
NIOSH REL TO MONDHALOMETHANES-AIR:TWA REDUCE TO LOWEST LEVEL MMWR** 37(S-7),20,88
EPA GENETOX PROGRAM 1988, POSITIVE: CARCINOGENICITY-MOUSE/RAT; SHE-CLONAL ASSAY
EPA GENETOX PROGRAM 1988, POSITIVE: L5178Y CELLS IN VITRO-TK TEST; E COLI POLA WITHOUT S9
EPA GENETOX PROGRAM 1988, POSITIVE: S CEREVISIAE-HOMOZYGOSIS
EPA TSCA CHEMICAL INVENTORY, 1986
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, SEPTEMBER 1989
NIOSH CURRENT INTELLIGENCE BULLETIN 43, 1984
NIOSH ANALYTICAL METHODS: SEE METHYL IODIDE, 1014
NTP FOURTH ANNUAL REPORT ON CARCINOGENS, 1984

TARGET ORGAN DATA

LUNGS, THORAX OR RESPIRATION (TUMORS)
GASTROINTESTINAL (COLON TUMORS)
TUMORIGENIC (NEOPLASTIC BY RTECS CRITERIA)
TUMORIGENIC (EQUIVOCAL TUMORIGENIC AGENT BY RTECS CRITERIA)

CONTINUED ON NEXT PAGE

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PRODUCT #: 28956-6
CAS #: 74-88-4
MF: CH3I

NAME: IODOMETHANE, 99.5%

----- TOXICITY HAZARDS -----

TUMORIGENIC (TUMORS AT SITE OF APPLICATION)

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

----- HEALTH HAZARD DATA -----

ACUTE EFFECTS

MAY BE FATAL IF INHALED, SWALLOWED, OR ABSORBED THROUGH SKIN.
CAUSES EYE AND SKIN IRRITATION.
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.
CAUSES BLISTERS ON CONTACT WITH SKIN.

CHRONIC EFFECTS

POSSIBLE CARCINOGEN.
LABORATORY EXPERIMENTS HAVE SHOWN MUTAGENIC EFFECTS.
TARGET ORGAN(S):
CENTRAL NERVOUS SYSTEM
LIVER, KIDNEYS

FIRST AID

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
CALL A PHYSICIAN.
DISCARD CONTAMINATED CLOTHING AND SHOES.

----- PHYSICAL DATA -----

BOILING PT: 41 C TO 43 C
MELTING PT: -64 C
SPECIFIC GRAVITY: 2.280
VAPOR DENSITY: 4.89
VAPOR PRESSURE: 332 MM @ 20 C
1140 MM @ 55 C

APPEARANCE AND ODOR
COLORLESS LIQUID

----- FIRE AND EXPLOSION HAZARD DATA -----

FLASHPOINT: NONE
EXTINGUISHING MEDIA

WATER SPRAY.
CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER FOAM.

SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO

CONTINUED ON NEXT PAGE

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----- FIRE AND EXPLOSION HAZARD DATA -----

PREVENT CONTACT WITH SKIN AND EYES.
UNUSUAL FIRE AND EXPLOSIONS HAZARDS
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

----- REACTIVITY DATA -----

INCOMPATIBILITIES
STRONG OXIDIZING AGENTS
STRONG BASES
MAY DISCOLOR ON EXPOSURE TO LIGHT.
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE
HYDROGEN IODIDE

----- SPILL OR LEAK PROCEDURES -----

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
EVACUATE AREA.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
COVER WITH DRY LIME OR SODA ASH, PICK UP, KEEP IN A CLOSED CONTAINER AND HOLD FOR WASTE DISPOSAL.
WEAR DISPOSABLE COVERALLS AND DISCARD THEM AFTER USE.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.
WASTE DISPOSAL METHOD
DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.
OBSERVE ALL FEDERAL, STATE, AND LOCAL LAWS.

--- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ---

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
SAFETY SHOWER AND EYE BATH.
USE ONLY IN A CHEMICAL FUME HOOD.
DO NOT BREATHE VAPOR.
AVOID ALL CONTACT.
WASH THOROUGHLY AFTER HANDLING.
POSSIBLE CARCINOGEN.
HIGHLY TOXIC.
VESICANT.
POSSIBLE MUTAGEN.
KEEP TIGHTLY CLOSED.
LIGHT SENSITIVE
STABILIZED WITH COPPER.
STORE IN A COOL DRY PLACE.

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REGULATORY INFORMATION

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