



chemists helping chemists in research & industry

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DATE: 09/19/91
CUST#: 938609
PO#: 69490

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 #: 19076-4
CAS #: 67-63-0
MF: C3H8O

NAME: 2-PROPANOL, 99+%, A.C.S. REAGENT

SYNONYMS

ALCOOL ISOPROPILICO (ITALIAN) * ALCOOL ISOPROPYLIQUE (FRENCH) *
ALCOJEL * ALCOSOLVE * AVANTIN * AVANTINE * CHROMAR * COMBI-SCHUTZ *
DIMETHYLCARBINOL * HARTOSOL * 2-HYDROXYPROPANE * IMSOL A * ISOHOL *
ISOPROPANOL * ISOPROPANOL (DOT) * ISOPROPYL ALCOHOL (ACGIH, DOT, OSHA) *
ISO-PROPYLALCOHOL (GERMAN) * LUTOSOL * PETROHOL * PRO * PROPAN-2-OL *
2-PROPANOL * I-PROPANOL (GERMAN) * N-PROPAN-2-OL * PROPYL * SEC-
PROPYL ALCOHOL * 2-PROPYL ALCOHOL * SEC-PROPYL ALCOHOL (DOT) * I-
PROPYLALCOHOL (GERMAN) * SPECTRAR * STERISOL HAND DISINFECTANT *
TAKINEOCOL * UN 1219 (DOT) *

TOXICITY HAZARDS

RTECS NO: NT8050000

ISOPROPYL ALCOHOL

IRRITATION DATA

SKN-RBT 500 MG MLD
EYE-RBT 16 MG
EYE-RBT 10 MG MOD
EYE-RBT 100 MG/24H MOD

NTIS** AD-A106-944
AJOPAA 29,1363,46
TXAPA9 55,501,80
85JCAE -,191,86

TOXICITY DATA

ORL-MAN LDLO:5272 MG/KG
ORL-HMN LDLO:3570 MG/KG
UNR-MAN LDLO:2770 MG/KG
ORL-RAT LD50:5045 MG/KG
IPR-RAT LD50:2735 MG/KG
IVN-RAT LD50:1088 MG/KG
ORL-MUS LD50:3600 MG/KG
IPR-MUS LD50:4477 MG/KG
IVN-MUS LD50:1509 MG/KG
ORL-RBT LD50:6410 MG/KG
SKN-RBT LD50:12800 MG/KG
IPR-RBT LD50:667 MG/KG
IVN-RBT LD50:1184 MG/KG
IPR-GPG LD50:2560 MG/KG
IPR-HAM LD50:3444 MG/KG

AJCPAI 38,144,62
34ZIAG -,339,69
85DCAI 2,73,70
GISAAA 43(1),8,78
EVHPAZ 61,321,85
EVHPAZ 61,321,85
GISAAA 43(1),8,78
EVHPAZ 61,321,85
EVHPAZ 61,321,85
EVHPAZ 61,321,85
FAONAU 48A,114,70
NPRI* 1,100,74
EVHPAZ 61,321,85
EVHPAZ 61,321,85
EVHPAZ 61,321,85
EVHPAZ 61,321,85

REVIEWS, STANDARDS, AND REGULATIONS

ACGIH TLV-TWA 400 PPM; STEL 500 PPM 85INA8 5,337,86
IARC CANCER REVIEW:ANIMAL INADEQUATE EVIDENCE IMEMDT 15,223,77
IARC CANCER REVIEW:HUMAN INADEQUATE EVIDENCE IMSUDL 7,229,87
IARC CANCER REVIEW:GROUP 3 IMSUDL 7,229,87

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TOXICITY HAZARDS

EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION

FEREAC 54,4388,89
MSHA STANDARD-AIR: TWA 400 PPM (980 MG/M3) DTLVS* 3,141,71
OSHA PEL: 8H TWA 400 PPM (980 MG/M3) FEREAC 54,2923,89
OSHA PEL FINAL: 8H TWA 400 PPM (980 MG/M3); STEL 500 PPM (1225 MG/M3)
FEREAC 54,2923,89
NIOSH REL TO ISOPROPYL ALCOHOL-AIR: 10H TWA 400 PPM; CL 800 PPM/15M
MMWR** 37(S-7), 17,88
NHS 1974: HZD 40987; NIS 465; TNF 213605; NOS 252; TNE 3183554
NOS 1983: HZD 40987000; TNF 449; NIS 183402; NOS 278; TNE 4665524;
TFE 2058264

EPA GENETOX PROGRAM 1988, NEGATIVE: CELL TRANSFORM.-SA7/SHE; N CRASSA-
ANEUPLOIDY

EPA TSCA CHEMICAL INVENTORY, JUNE 1990
EPA TSCA SECTION 8(E) STATUS REPORT 8EHQ-1180-0371
EPA TSCA SECTION 8(E) STATUS REPORT 8EHQ-0985-0566
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, MARCH 1991
NIOSH ANALYTICAL METHODS: SEE ALCOHOLS I, 1400

TARGET ORGAN DATA

BEHAVIORAL (HALLUCINATIONS, DISTORTED PERCEPTIONS)
CARDIAC (PULSE RATE DECREASED WITH FALL IN BP)
VASCULAR (BP LOWERING NOT CHARACTERIZED IN AUTONOMIC SECTION)
GASTROINTESTINAL (NAUSEA OR VOMITING)
EFFECTS ON EMBRYO OR FETUS (FETAL DEATH)

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 HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.
CAUSES SEVERE EYE IRRITATION.
CAUSES SKIN IRRITATION.
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
CAN CAUSE CNS DEPRESSION.
PROLONGED EXPOSURE CAN CAUSE:
NAUSEA, HEADACHE AND VOMITING
NARCOTIC EFFECT
PROLONGED OR REPEATED EXPOSURE TO SKIN CAUSES DEFATTING AND

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HEALTH HAZARD DATA

DERMATITIS.
CHRONIC EFFECTS
TARGET ORGAN(S):
NERVES
KIDNEYS

FIRST AID
IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.
ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS WITH FINGERS.
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS AMOUNTS OF WATER.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
REMOVE AND WASH CONTAMINATED CLOTHING PROMPTLY.

PHYSICAL DATA

BOILING PT: 82.3 C
MELTING PT: -89.5 C
SPECIFIC GRAVITY: 0.782
VAPOR DENSITY: 2
VAPOR PRESSURE: 33 MM @ 20 C
APPEARANCE AND ODOR
COLORLESS LIQUID

FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT: 72 F
AUTOIGNITION TEMPERATURE: 860 F
LOWER EXPLOSION LEVEL: 2.5%
UPPER EXPLOSION LEVEL: 12%
EXTINGUISHING MEDIA
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.
USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.
FLAMMABLE LIQUID.

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M A T E R I A L S A F E T Y D A T A S H E E T **PAGE 4**

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FIRE AND EXPLOSION HAZARD DATA

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASH BACK.
CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS.

REACTIVITY DATA

INCOMPATIBILITIES

OXIDIZING AGENTS
ACIDS
ACID ANHYDRIDES
HALOGENS
ALUMINUM

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

SHUT OFF ALL SOURCES OF IGNITION.
EVACUATE AREA.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL.
USE NONSPARKING TOOLS.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

WASTE DISPOSAL METHOD

BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY FLAMMABLE.

OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

CHEMICAL SAFETY GOGGLES.
SAFETY SHOWER AND EYE BATH.
RUBBER GLOVES.
MECHANICAL EXHAUST REQUIRED.
NIOSH/MSHA-APPROVED RESPIRATOR.

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M A T E R I A L S A F E T Y D A T A S H E E T **P A G E 5**

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NAME: 2-PROPANOL, 99+%, A.C.S. REAGENT

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
DO NOT BREATHE VAPOR.
WASH THOROUGHLY AFTER HANDLING.
SEVERE EYE IRRITANT.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.
HYGROSCOPIC
STORE IN A COOL DRY PLACE.

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