



chemists helping chemists in research & industry

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DATE: 09/12/94
CUST#: 938609
PO#: 77839

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

SECTION 1. - - - - - CHEMICAL IDENTIFICATION - - - - -

PRODUCT #: 10982-7 NAME: 2-PROPANOL, 99+%

SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

CAS #: 67-63-0
MF: C3H8O

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-PROPYLALKOHOL (GERMAN) * LUTOSOL * PETROHOL * PRO * PROPAN-2-OL *
2-PROPANOL * I-PROPANOL (GERMAN) * N-PROPAN-2-OL * PROPOL * SEC-
PROPYL ALCOHOL * 2-PROPYL ALCOHOL * I-PRCPYLALKOHOL (GERMAN) *
SPECTRAR * STERISOL HAND DISINFECTANT * TAKINEOCOL * UN1219 (DOT) *

SECTION 3. - - - - - HAZARDS IDENTIFICATION - - - - -

LABEL PRECAUTIONARY STATEMENTS

FLAMMABLE (USA DEFINITION)

HIGHLY FLAMMABLE (EUROPEAN DEFINITION)

IRRITANT

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

RISK OF SERIOUS DAMAGE TO EYES.

TARGET ORGAN(S):

NERVES

KIDNEYS

KEEP AWAY FROM SOURCES OF IGNITION. NO SMOKING.

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF

WATER AND SEEK MEDICAL ADVICE.

WEAR SUITABLE PROTECTIVE CLOTHING.

HYGROSCOPIC

KEEP TIGHTLY CLOSED.

SECTION 4. - - - - - FIRST-AID MEASURES - - - - -

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.

CONTINUED ON NEXT PAGE

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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 2

CUST#: 938609
PO#: 77839

PRODUCT #: 109827 NAME: 2-PROPANOL, 99+%
MF: C3H8O

FIRST AID

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.

SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - -

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.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

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

SECTION 6. - - - - - ACCIDENTAL RELEASE MEASURES - - - - -

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.

SECTION 7. - - - - - HANDLING AND STORAGE - - - - -

REFER TO SECTION 8.

CONTINUED ON NEXT PAGE

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PAGE 3

PRODUCT #: 109827
MF: C3H8O

NAME: 2-PROPANOL, 99+%

CUST#: 938609
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SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - - -

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

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -

APPEARANCE AND ODOR
COLORLESS LIQUID
BOILING POINT: 82.4 C
MELTING POINT: -89.5 C
FLASHPOINT 53 F
11C
AUTOIGNITION TEMPERATURE: 750 F 398C
UPPER EXPLOSION LEVEL: 12%
LOWER EXPLOSION LEVEL: 2.5%
VAPOR PRESSURE: 33MM 20 C 44MM 25 C
VAPOR DENSITY: 2.1
SPECIFIC GRAVITY: 0.785

SECTION 10. - - - - - STABILITY AND REACTIVITY - - - - -

INCOMPATIBILITIES
OXIDIZING AGENTS
ACIDS
ACID ANHYDRIDES
HALOGENS
ALUMINUM

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PAGE 4

PRODUCT #: 109827
MF: C3H8O

NAME: 2-PROPANOL, 99+%

CUST#: 938609
PO#: 77839

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE

SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - - -

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
DERMATITIS.

CHRONIC EFFECTS

TARGET ORGAN(S):
NERVES
KIDNEYS

RTECS NO: N18050000

ISOPROPYL ALCOHOL

IRRITATION DATA

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

TOXICITY DATA

ORL-HAN LD50: 5272 MG/KG
ORL-HMN LD50: 3570 MG/KG
UNR-HAN LD50: 2770 MG/KG
ORL-RAT LD50: 5045 MG/KG
IPR-RAT LD50: 2735 MG/KG
IVN-RAT LD50: 1088 MG/KG
OKL-MUS LD50: 3600 MG/KG
IPR-MUS LD50: 4477 MG/KG
IVN-MUS LD50: 1509 MG/KG
ORL-RBT LD50: 6410 MG/KG

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

AJCPAI 38,144,62
34Z IAG -,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
FAONAU 48A,114,70

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PAGE 5

CUST#: 938609
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PRODUCT #: 109827
MF: C3H8O

NAME: 2-PROPANOL, 99+%

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

NPIRI* 1,100,74
EVHPAZ 61,321,85
EVHPAZ 61,321,85
EVHPAZ 61,321,85
EVHPAZ 61,321,85

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.

SECTION 12. - - - - - ECOLOGICAL INFORMATION - - - - -
DATA NOT YET AVAILABLE.

SECTION 13. - - - - - DISPOSAL CONSIDERATIONS - - - - -

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.

SECTION 14. - - - - - TRANSPORT INFORMATION - - - - -

CONTACT ALDRICH CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. - - - - - REGULATORY INFORMATION - - - - -

REVIEWS, STANDARDS, AND REGULATIONS

ACGIH TLV-TWA 400 PPM; STEL 500 PPM 851MA8 6,828,91
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
EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION
FEREAC 54,7740,89

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PAGE 6

CUST#: 938609
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PRODUCT #: 109827 NAME: 2-PROPANOL, 99+
MF: C3H8O

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
OEL-AUSTRALIA: TWA 400 PPM (980 MG/M3); STEL 500 PPM (1225 MG/M3) JAN93
OEL-BELGIUM: TWA 400 PPM (985 MG/M3); STEL 500 PPM (1230 MG/M3) JAN93
OEL-DENMARK: TWA 200 PPM (490 MG/M3); SKIN JAN93
OEL-FRANCE: STEL 400 PPM (980 MG/M3) JAN93
OEL-GERMANY: TWA 400 PPM (980 MG/M3) JAN93
OEL-JAPAN: STEL 400 PPM (980 MG/M3) JAN93
OEL-THE NETHERLANDS: TWA 400 PPM (980 MG/M3); SKIN JAN93
OEL-THE PHILIPPINES: TWA 400 PPM (980 MG/M3) JAN93
OEL-RUSSIA: STEL 400 PPM (10 MG/M3) JAN93
OEL-SWEDEN: TWA 150 PPM (350 MG/M3); STEL 250 PPM (600 MG/M3) JAN93
OEL-SWITZERLAND: TWA 400 PPM (980 MG/M3); STEL 800 PPM JAN93
OEL-TURKEY: TWA 200 PPM (500 MG/M3) JAN93
OEL-UNITED KINGDOM: TWA 400 PPM (980 MG/M3); STEL 500 PPM; SKIN JAN93
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV
NIOSH REL TO ISOPROPYL ALCOHOL-AIR: 10H TWA 400 PPM; STEL 500 PPM
NIOSH* DHHS #92-100,92
NIOSH 1974: HZD 40987; NIS 465; TNF 213605; NOS 252; TNE 3183554
NIOSH 1983: HZD 40987; NIS 442; TNF 166327; NOS 270; TNE 4290990; TFE
1954610
EPA GENETOX PROGRAM 1988, NEGATIVE: CELL TRANSFORM.-SA7/SHE; N
CRASSA-ANEUPLOIDY
EPA TSCA CHEMICAL INVENTORY, JUNE 1993
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, JANUARY 1994
NIOSH ANALYTICAL METHODS: SEE ALCOHOLS I, 1400

SECTION 16. - - - - - OTHER INFORMATION - - - - -

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO
BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ALDRICH SHALL NOT BE

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