



chemists helping chemists in research & industry

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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#: 69490

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

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

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
NOHS 1974: HZD 40987; NIS 465; TNF 213605; NOS 252; TNE 3183554
NOES 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

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 P A G E 3

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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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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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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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