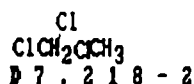


MATERIAL SAFETY DATA SHEET

Sigma-Aldrich Corporation
1001 West Saint Paul Ave, Milwaukee, WI 53233 USA

Version January 1992

	Sigma	Aldrich
For Emergency Contact USA/Canada	800-325-5832	800-231-8327
Outside USA/Canada	314-771-5765	414-273-3850



IDENTIFICATION

PRODUCT #: 82270

NAME: 1,2-DICHLOROPROPANE

CAS #: 78-87-5

SYNONYMS

BICHLORURE DE PROPYLENE (FRENCH) * ALPHA,BETA-DICHLOROPROPANE * 1,2-DICHLOROPROPANE * 1,2-DICHLOROPROPANE (OSHA) * DWUCHLOROPROPAN (POLISH) * ENT 15,406 * NCI-C55141 * PROPYLENE CHLORIDE * PROPYLENE DICHLORIDE * ALPHA,BETA-PROPYLENE DICHLORIDE * PROPYLENE DICHLORIDE (ACGIH,OSHA) * RCRA WASTE NUMBER U083 *

TOXICITY HAZARDS

RTECS NO: TX9625000

PROPANE, 1,2-DICHLORO-

IRRITATION DATA

EYE-RBT 500 MG MLD

AIHAAP 30,470,69

TOXICITY DATA

ORL-RAT LD50:1947 MG/KG

AIHAAP 20,364,59

IHL-RAT LC50:14 GM/M3/8H

AIHAAP 20,364,59

ORL-MUS LD50:860 MG/KG

85JCAE -,98,86

UNR-MUS LD50:960 MG/KG

ESKGA2 28,P31,82

SKN-RBT LD50:8750 MG/KG

UCDS** 7/28/66

ORL-GPG LD50:2 GM/KG

FMCHA2 -,C242,89

REVIEWS, STANDARDS, AND REGULATIONS

ACGIH TLV-TWA 75 PPM; STEL 110 PPM 85INA8 5,501,86
IARC CANCER REVIEW:ANIMAL LIMITED EVIDENCE IMEMDT 41,131,86
IARC CANCER REVIEW:HUMAN NO ADEQUATE DATA IMEMDT 41,131,86
IARC CANCER REVIEW:GROUP 3 IMSUDL 7,56,87
MSHA STANDARD-AIR:TWA 75 PPM (350 MG/M3) DTLVS* 3,218,71
OSHA PEL:8H TWA 75 PPM (350 MG/M3) FEREAC 54,2923,89
OSHA PEL FINAL:8H TWA 75 PPM (350 MG/M3);STEL 110 PPM (510 MG/M3).
FEREAC 54,2923,89
NOHS 1974: HZD 24390; NIS 13; TNF 653; NOS 15; TNE 9601
NOES 1983: HZD 24390000; TNF 6; NIS 116; NOS 15; TNE 2944; TFE 1022
ATSDR TOXICOLOGY PROFILE (NTIS** PB/90/182122/AS)
EPA GENETOX PROGRAM 1988, POSITIVE: HISTIDINE REVERSION-AMES TEST
EPA TSCA CHEMICAL INVENTORY, JUNE 1990
EPA TSCA 8(A) PRELIMINARY ASSESSMENT INFORMATION, FINAL RULE FEREAC
47,26992,82
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, MARCH 1991
NIOSH ANALYTICAL METHODS: SEE 1,2-DICHLOROPROPANE, 1013
NTP CARCINOGENESIS STUDIES (GAVAGE);SOME EVIDENCE:MOUSE NTPTR* NTP-TR-
263,86
NTP CARCINOGENESIS STUDIES (GAVAGE);EQUIVOCAL EVIDENCE:RAT NTPTR* NTP-
TR-263,86

TARGET ORGAN DATA

GASTROINTESTINAL (ULCERATION OR BLEEDING FROM STOMACH)
GASTROINTESTINAL (ULCERATION OR BLEEDING FROM SMALL INTESTINE)
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

HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
CAUSES SKIN IRRITATION.
PROLONGED CONTACT CAN CAUSE:
NAUSEA, HEADACHE AND VOMITING
CAN CAUSE CNS DEPRESSION.
REPEATED EXPOSURE CAN CAUSE:
DAMAGE TO THE LIVER
DAMAGE TO THE KIDNEYS
CAUSES DERMATITIS.

CHRONIC EFFECTS

POSSIBLE CARCINOGEN.
LABORATORY EXPERIMENTS HAVE SHOWN MUTAGENIC EFFECTS.

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.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.

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

BOILING PT: 95 C TO 96 C
MELTING PT: -100 C
SPECIFIC GRAVITY: 1.156
VAPOR DENSITY: 3.89
VAPOR PRESSURE: 40 MM @ 19.4 C

100 MM @ 39.4 C

APPEARANCE AND ODOR
COLORLESS LIQUID

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

FLASHPOINT: 40 F BY:
AUTOIGNITION TEMPERATURE: 1035 F
LOWER EXPLOSION LEVEL: 3.4%
UPPER EXPLOSION LEVEL: 14.5%

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.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

FLAMMABLE LIQUID.

VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND
FLASH BACK.

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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

INCOMPATIBILITIES

OXIDIZING AGENTS

ACIDS

BASES

ALUMINUM

AND ITS ALLOYS.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

TOXIC FUMES OF:

HYDROGEN CHLORIDE GAS

CARBON MONOXIDE, CARBON DIOXIDE

PHOSGENE GAS

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

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

EVACUATE AREA.

SHUT OFF ALL SOURCES OF IGNITION.

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.

ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR
DISPOSAL.

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 LAWS.

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

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT
GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.

USE ONLY IN A CHEMICAL FUME HOOD.

SAFETY SHOWER AND EYE BATH.

DO NOT BREATHE VAPOR.

DO NOT GET IN EYES, ON SKIN, ON CLOTHING.

AVOID PROLONGED OR REPEATED EXPOSURE.

WASH THOROUGHLY AFTER HANDLING.

IRRITANT.

POSSIBLE CARCINOGEN.

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POSSIBLE MUTAGEN.

KEEP TIGHTLY CLOSED.

KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.

STORE IN A COOL DRY PLACE.

REGULATORY INFORMATION

THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. SIGMA ALDRICH SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE

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