

ISSUE DATE: NOVEMBER 25, 1985 DATE UPDATED: MARCH 7, 1986

CHEMICAL NAME: N-PROPANOL

NPL

MANUFACTURER NAME/ADDRESS:
CELANESE CHEMICAL CO., INC.
250 W. MOCKINGBIRD LAND

DALLAS TX 075247

MANUFACTURER PHONE NO:
214-689-4000 BUSINESS PHONE
000-000-0000

CAS OR TRADE NO. 00071-23-8 C EPA REPORTABLE QTY:

CHEMICAL FAMILY: ALCOHOL
FORMULA: CH₃CH₂CH₂OH

DOT SHIPPING NAME: PROPYL ALCOHOL
DOT HAZARD CLASS: FLAMMABLE LIQUID

SUBSIDIARY RISK: UN I.D. NUMBER:
1274

ALIAS:
PROPYL ALCOHOL PROPYLIC ALCOHOL
PROEANOI ETHYL CARBINOL
1-PROPANOL PROPANOL-1

* SECTION 1: PHYSICAL DATA/HAZARDOUS INGRED *

BOILING POINT VAPOR DENSITY SOLUBILITY
(760MM HG) (AIR=1) (WEIGHT% IN WATER)
97.2 DEG. C 2.07 COMPLETE

FREEZING/MELTING POINT VOLUME & VOLATILE PH OF SOLUTIONS:
-127 DEG C 100 NOT LISTED

VAPOR PRESSURE: EVAPORATION RATE:
13 MM HG @ 20 DEG C 1.3 (BUAC = 1)

SPECIFIC GRAVITY(H₂O=1) BULK DENSITY HEAT OF SOLUTION
0.8044 NOT LISTED NOT LISTED

APPEARANCE AND ODOR:
CLEAR, COLORLESS, MOBILE LIQUID, MILD ALCOHOL ODOR

INGREDIENT	%	INGREDIENT	%
N-PROPANOL	99.8		

 * SECTION 2 & 3 FIRE/EXPLOSION HAZARD DATA *

FLASH POINT DEG F (METHOD USED) 1 DEG F (TCC)	FLAMMABLE LIMITS IN AIR(% BY VOLUME) LEL: 2.2 UEL: 14.0
---	--

EXTINGUISHING MEDIA:
 SEE BELOW

SPECIAL FIRE FIGHTING PROCEDURES:

USE CO2 OR DRY CHEMICAL FOR SMALL FIRES. ALCOHOL-TYPE AQUEOUS FILM-FORMING FOAM OR WATER SPRAY FOR LARGE FIRES. WATER MAY BE INEFFECTIVE BUT SHOULD BE USED TO COOL FIRE-EXPOSED STRUCTURES AND VESSELS.

SPECIAL FIRE FIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS (SCBA) AND COMPLETE PERSONAL PROTECTIVE EQUIPMENT WHEN POTENTIAL FOR EXPOSURE TO VAPORS OR PRODUCTS OF COMBUSTION EXISTS. WATER SPRAY CAN BE USED TO REDUCE INTENSITY OF FLAMES AND TO DILUTE SPILLS TO NONFLAMMABLE MIXTURE.

UNUSUAL FIRE AND EXPLOSION HAZARDS: VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASHBACK.

SPECIAL HAZARD DESIGNATIONS

	HMIS	NFPA	KEY
HEALTH:	2	1	0 - MINIMAL
FLAMMABILITY:	3	3	1 - SLIGHT
REACTIVITY: 0		2 - MODERATE	
PROTECTIVE EQUIPMENT: SG			3 - SERIOUS
4 - SEVERE			

 * SECTION 4.1 HEALTH HAZARD DATA *

PERMISSIBLE EXPOSURE LIMITS:

ACGIH TLV: 200 PPM, 8-HR TWA; 250 PPM, 15-MIN STEL; POTENTIAL CONTRIBUTION TO OVERALL EXPOSURE POSSIBLE VIA SKIN ABSORPTION.

OSHA-PEL: 200 PPM, 8-HR TWA

FRS REC:

CARCINOGENICITY STATUS (SOURCE):

LIMITED EVIDENCE OF CARCINOGENICITY TO ANIMALS (LIFETIME STUDY, RATS, ORAL, TOTAL DOSAGE 50 G/KG, 81 WEEKS)

TOXICITY DATA: EFFECTS OF OVEREXPOSURE, ETC

IMMEDIATELY DANGEROUS TO LIFE AND HEALTH LEVEL: 4000 PPM

EFFECTS OF EXPOSURE/TOXICITY DATA:

ACUTE: INGESTION (SWALLOWING) CAN CAUSE NAUSEA, DIZZINESS, HEADACHES, AND STUPOR. SLIGHTLY TOXIC TO ANIMALS (ORAL LD50, RATES: 1.9 G/KG).

SL 049680

INHALATION (BREATHING): CAN CAUSE NAUSEA, DIZZINESS, HEADACHE AND STUPOR.
IRRITATES NASAL PASSAGES AND THROAT. PRACTICALLY NON-TOXIC TO ANIMALS (IN-
HALATION LC50, RATS; 24,000 PPM).
SKIN CONTACT: ESSENTIALLY NON-IRRITATING. PROLONGED CONTACT CAN CAUSE
DRYING AND BRITTLENESS. SLIGHTLY TOXIC TO ANIMALS BY ABSORPTION (DERMAL
LD50, RABBITS; 5.0 G/KG).
EYE CONTACT: CAN CAUSE SEVERE INJURY - DAMAGE REVERSIBLE.
CHRONIC:
MUTAGENICITY: IN VITRO, NO EVIDENCE OF MUTAGENICITY IN MOUSE LYMPHOMA FOR
HARD ASSAY AND IN AMES TEST, WITH AND WITHOUT ACTIVATION. IN VIVO, NO INFO
REPRODUCTION: NO INFORMATION
OTHER: CAUSED DAMAGE TO LIVERS OF RATS (LIFETIME STUDY, TOTAL DOSAGE
50 G/KG).

* SECTION 4.2 EMERGENCY/FIRST AID PROCEDURE *

INHALATION:
REMOVE PATIENT FROM CONTAMINATED AREA. IF BREATHING HAS STOPPED, GIVE
ARTIFICIAL RESPIRATION, THEN OXYGEN IF NEEDED. CONTACT A PHYSICIAN
IMMEDIATELY.

EYE CONTACT:
FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. CONTACT A PHYSICIAN
IMMEDIATELY.

SKIN CONTACT:
REMOVE CONTAMINATED CLOTHING AND WASH CONTAMINATED SKIN WITH LARGE AMOUNTS
OF WATER. IF IRRITATION PERSISTS, CONTACT A PHYSICIAN.

INGESTION:
INDUCE VOMITING OF CONSCIOUS PATIENT IMMEDIATELY BY GIVING TWO GLASSES OF
WATER AND PRESSING FINGER DOWN THROAT. CONTACT A PHYSICIAN IMMEDIATELY.

NOTES TO PHYSICIAN (INCLUDING ANTIDOTES)
NONE LISTED

SECTION 5 REACTIVITY DATA

STABILITY:

STABLE

CONDITIONS TO AVOID:
HEAT, SPARKS, FLAME

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

CONDITIONS TO AVOID:
NONE LISTED

INCOMPATIBILITY (MATERIALS TO AVOID):

OXIDIZING AGENTS SUCH AS HYDROGEN PEROXIDE, NITRIC ACID, PERCHLORIC ACID
OR CHROMIUM TRIOXIDE.

HAZARDOUS DECOMPOSITION PRODUCTS:

CARBON MONOXIDE.

SECTION 6 SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:

ELIMINATE IGNITION SOURCES. AVOID EYE OR SKIN CONTACT. PLACE LEAKING CONTAINERS IN WELL-VENTILATED AREA. IF FIRE POTENTIAL EXISTS, BLANKET SPILL WITH FOAM OR USE WATER SPRAY TO DISPERSE VAPORS. CONTAIN SPILL TO MINIMIZE CONTAMINATED AREA AND FACILITATE SALVAGE OR DISPOSAL. TO CLEAN UP SPILL, FLUSH AREA SPARINGLY WITH WATER OR USE AN ABSORBENT. AVOID RUNOFF INTO STORM SEWERS AND DITCHES WHICH LEAD TO NATURAL WATERWAYS. CALL THE NATIONAL RESPONSE CENTER (800-424-8802) IF SPILL IS EQUAL TO OR GREATER THAN REPORTABLE QUANTITY (100 LB/DAY) UNDER "SUPERFUND". ALL CLEAN-UP AND DISPOSAL SHOULD BE CARRIED OUT IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. IF REQUIRED, STATE AND LOCAL AUTHORITIES SHOULD BE NOTIFIED.

WASTE DISPOSAL METHOD:

THIS PRODUCT WHEN SPILLED OR DISPOSED IS A HAZARDOUS SOLID WASTE AS DEFINED IN RESOURCE CONSERVATION RECOVERY ACT REGULATIONS (40CFR261). PREFERRED METHOD IS INCINERATION OR BIOLOGICAL TREATMENT IN FEDERAL/STATE APPROVED FACILITY.

SL 049682

SECTION 7.1 SPECIAL PROTECTION

RESPIRATORY PROTECTION:
USE FULL-FACE NIOSH-APPROVED ORGANIC VAPOR CARTRIDGE OR CANISTER RESPIRATOR
WITHIN USE LIMITATIONS OF THESE DEVICES; IN ALL OTHER SITUATIONS, USE SELF-
CONTAINED BREATHING APPARATUS (SCBA).

SECTION 7.2 SPECIAL PROTECTION DATA

VENTILATION(TYPE):
LOCAL EXHAUST: RECOMMENDED WHEN APPROPRIATE TO CONTROL EMPLOYEE EXPOSURE.
MECHANICAL (GENERAL): NOT RECOMMENDED AS THE SOLE MEANS OF CONTROLLING
EMPLOYEE EXPOSURE.

EYE PROTECTION:
CHEMICAL SAFETY GOGGLES

GLOVES:
NEOPRENE OR RUBBER

OTHER PROTECTIVE EQUIPMENT:

FOR OPERATIONS WHERE SPILLS OR SPLASHING CAN OCCUR, USE IMPERVIOUS BODY
COVERING AND BOOTS. A SAFETY SHOWER AND EYE BATH SHOULD BE AVAILABLE.

SECTION 8.1 SPECIAL PRECAUTIONS

SPECIAL PRECAUTIONS AND COMMENTS:
HANDLING & STORING: STORE IN COOL, WELL-VENTILATED AREA. DO NOT EXPOSE TO
TEMPERATURES ABOVE 38 DEG. C (100 DEG. F). KEEP AWAY FROM HEAT, SPARKS &
FLAME. KEEP CONTAINERS CLOSED. USE ONLY DOT-APPROVED CONTAINERS. USE
SPARK-RESISTANT TOOLS. WHEN TRANSFERRING FOLLOW PROPER GROUNDING PROCE-
DURES. USE WITH ADEQUATE VENTILATION. AVOID BREATHING VAPOR. AVOID CON-
TACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY WITH SOAP AND WATER
AFTER HANDLING. WASH CONTAMINATED CLOTHING THOROUGHLY BEFORE RE-USE.
DISCARD CONTAMINATED LEATHER CLOTHING.

SECTION 8.2 REFERENCES

REFERENCES:
NONE LISTED

SECTION 8.4 MISC INFORMATION

MISC INFORMATION:
NONE LISTED