

All-N: SAFETY DIRECTOR  
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RICHLAND MEMORIAL HOSP  
5 RICHLAND MEDICAL PARK  
COLUMBIA SC 29203

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DATE: 07/14/95  
CUST #: I-079-74400

MATERIAL SAFETY DATA SHEET

SECTION 1.

----- CHEMICAL IDENTIFICATION -----

PRODUCT #: PI 009

NAME: 1,2- PROPANEDIOL

SECTION 2.

----- COMPOSITION/INFORMATION ON INGREDIENTS -----

CAS #: 57-55-6  
MF: C3H8O2

SYNONYMS

1,2- DIHYDROXYPROPANE . DOWFROST \* METHYLETHYLENE GLYCOL . METHYL GLYCOL .  
MONOPROPYLENE GLYCOL . PG 12 \* PROPANE-1, 2-DIOL \* PROPYLENE GLYCOL . PROPYLENE  
GLYCOL USP \* ALPHA-PROPYLENEGLYCOL \* 1,2-PROPYLENE GLYCOL . 1,2-PROPYLENEGLYKOL  
(GERMAN . SIRLENE \* SOLAR WINTER BAN . TRIMETHYL GLYCOL \*

SECTION 3.

----- HAZARDS IDENTIFICATION -----

DATA NOT AVAILABLE

SECTION 4.

----- FIRST-AID MEASURES -----

FLUSH SKIN WITH WATER.  
CONTAMINATION OF THE EYES SHOULD BE TREATED BY IMMEDIATE AND PROLONGED  
IRRIGATION WITH COPIOUS AMOUNTS OF WATER.  
IF INHALED, REMOVE TO FRESH AIR.  
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.  
CALL A PHYSICIAN.

SECTION 5.

----- FIRE FIGHTING MEASURES -----

EXTINGUISHING MEDIA

WATER SPRAY.

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.

SECTION 6.

----- ACCIDENTAL RELEASE MEASURES -----

WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, 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.

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

REFER TO SECTION 8.

SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION -----

CHEMICAL SAFETY GOGGLES.  
USE PROTECTIVE CLOTHING, GLOVES AND MASK.  
SAFETY SHOWER AND EYE BATH.  
MECHANICAL EXHAUST REQUIRED.  
DO NOT BREATHE VAPOR.  
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.  
WASH THOROUGHLY AFTER HANDLING.  
KEEP TIGHTLY CLOSED.  
STORE IN A COOL DRY PLACE.

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

APPEARANCE AND ODOR

VISCOUS COLORLESS LIQUID  
BOILING POINT: 187 C  
MELTING POINT: -60 C  
FLASHPOINT: 225 F 107 C  
AUTO IGNITION TEMPERATURE: 779 F 414 C  
LOWER EXPLOSION LEVEL: 2.6%  
UPPER EXPLOSION LEVEL: 12.5%  
VAPOR PRESSURE: 0.08 MM 20 C  
VAPOR DENSITY: 2.62  
SPECIFIC GRAVITY: 1.036

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

INCOMPATIBILITIES

ACID CHLORIDES  
ACID ANHYDRIDES  
OXIDIZING AGENTS  
CHLOROFORMATES  
REDUCING AGENTS

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.  
MAY CAUSE EYE IRRITATION.  
MAY CAUSE SKIN IRRITATION.  
EXPOSURE CAN CAUSE:  
GASTROINTESTINAL DISTURBANCES  
NAUSEA, HEADACHE AND VOMITING  
CNS DEPRESSION

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RTECS NO: TY2000000

I, 2-PROPANEDIOL

IRRITATION DATA

SKN-HMN 500 MG/7D MLD  
SKN-HMN 104 MG/3D-I MOD  
SKN-MAN 10%/2D  
EYE-RBT 100 MG MLD  
EYE-RBT 500 MG/24H MLD

JIDEAE 55, 190, 70  
85DKA8 -, 127, 77  
JIDEAE 19, 423, 52  
FCTOD7 20, 573, 82  
85JCAE -, **206, 86**

TOXICITY DATA

ORL-RAT LD50: 20 GM/KG  
IPR-RAT LD50: 6660 MG/KG  
SCU-RAT LD50: 22500 MG/KG  
IV/N-RAT LD50: 6423 MG/KG  
IMS-RAT LD50: 14 GM/KG  
ORL-MUS LD50: 22 GM/KG  
IPR-MUS LD50: 9718 MG/KG  
SCU-MUS LD50: 17370 MG/KG  
IVN-MUS LD50: 6630 MG/KG  
ORL-DOG LD50: 22 GM/KG

TXAPA9 45, 362, 78  
KRKRDT 9, 36, 81  
IAEC\*\* 17 JUN 74  
ARZNAD 26, 1581, 76  
IAEC\*\* 17 JUN 74  
JPETAB 65, 89, 39  
FEPRA7 6, 342, 47  
KRKRDT 8, 46, 81  
ARZNAD 26, 1581, 76  
JIMTAB 21, 173, 39