

MSDS for PROPYLENE GLYCOL

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1 - PRODUCT IDENTIFICATION

PRODUCT NAME: PROPYLENE GLYCOL
FORMULA: CH3CHOHCH2OH
FORMULA T: 76.10
CAS NO.: 00057-55-6
NIOSH/RTECS NO.: TY2000000
COMMON SYNONYMS: 1,2-PROPANEDIOL; 1,2-DIHYDROXYPROPANE; METHYLETHYLENE GLYCOL;
PROPANE-1,2-DIOL
PRODUCT CODES: U510,9402
EFFECTIVE: 09/26/85
REVISION #01

PRECAUTIONARY LABELLING

BAKER SAF-T-DATA(TM) SYSTEM

| | | | |
|--------------|---|---|----------|
| HEALTH | - | 0 | NONE |
| FLAMMABILITY | - | 1 | SLIGHT |
| REACTIVITY | - | 1 | SLIGHT |
| CONTACT | - | 2 | MODERATE |

HAZARD RATINGS ARE 0 TO 4 (0 = NO HAZARD; 4 = EXTREME HAZARD).

LABORATORY PROTECTIVE EQUIPMENT

SAFETY GLASSES; LAB COAT

PRECAUTIONARY LABEL STATEMENTS

WARNING

CAUSES IRRITATION

AVOID CONTACT WITH EYES, SKIN, CLOTHING.

KEEP IN TIGHTLY CLOSED CONTAINER. WASH THOROUGHLY AFTER HANDLING.

SAF-T-DATA(TM) STORAGE COLOR CODE: ORANGE (GENERAL STORAGE)

2 - HAZARDOUS COMPONENTS

| COMPONENT | % | CAS NO. |
|------------------|--------|---------|
| PROPYLENE GLYCOL | 90-100 | 57-55-6 |

3 - PHYSICAL DATA

| | | | |
|-------------------|----------------|------------------------|-----|
| BOILING POINT: | 188 C (370 F) | VAPOR PRESSURE(MM HG): | N/A |
| MELTING POINT: | -59 C (-74 F) | VAPOR DENSITY(AIR=1): | 2.6 |
| SPECIFIC GRAVITY: | 1.04 | EVAPORATION RATE: | N/A |
| (H2O=1) | | (BUTYL ACETATE=1) | |

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SOLUBILITY(H2O): COMPLETE (IN ALL PROPORTIONS) % VOLATILES BY VOLUME: N/A

APPEARANCE & ODOR: COLORLESS, ODORLESS VISCOUS LIQUID.

4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (CLOSED CUP 99 C (210 F) NFPA 704M RATING: 0-1-0

FLAMMABLE LIMITS: UPPER - 12.6 % LO ER - 2.6 %

FIRE EXTINGUISHING MEDIA

USE ATER SPRAY, ALCOHOL FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

SPECIAL FIRE-FIGHTING PROCEDURES

MOVE EXPOSED CONTAINERS FROM FIRE AREA, IF IT CAN BE DONE ITHOUT RISK.

USE ATER TO KEEP FIRE-EXPOSED CONTAINERS COOL.

UNUSUAL FIRE & EXPLOSION HAZARDS

CLOSED CONTAINERS EXPOSED TO HEAT MAY EXPLODE.

5 - HEALTH HAZARD DATA

TOXICITY: LD50 (ORAL-RAT) (G/KG) - 20
LD50 (SKN-RABBIT) (G/KG) - 20.8
LD50 (IPR-RAT) (G/KG) - 0013

CARCINOGENICITY: NTP: NO IARC: NO Z LIST: NO OSHA REG: NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
NONE IDENTIFIED

ROUTES OF ENTRY
NONE INDICATED

EMERGENCY AND FIRST AID PROCEDURES

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES ITH PLENTY OF ATER FOR AT
LEAST 15 MINUTES. FLUSH SKIN ITH ATER.

6 - REACTIVITY DATA

STABILITY: STABLE HAZARDOUS POLYMERIZATION: ILL NOT OCCUR

CONDITIONS TO AVOID: FLAME, SOURCES OF IGNITION

INCOMPATIBLES: STRONG OXIDIZING AGENTS

7 - SPILL AND DISPOSAL PROCEDURES

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STEPS TO BE TAKEN IN THE EVENT OF A SPILL OR DISCHARGE

EAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING.

STOP LEAK IF YOU CAN DO SO ITHOUT RISK. USE ATER SPRAY TO REDUCE VAPORS.

TAKE UP ITH SAND OR OTHER NON-COMBUSTIBLE ABSORBENT MATERIAL AND PLACE INTO CONTAINER FOR LATER DISPOSAL. FLUSH SPILL AREA ITH ATER.

DISPOSAL PROCEDURE

DISPOSE IN ACCORDANCE ITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.

8 - PROTECTIVE EQUIPMENT

VENTILATION: USE ADEQUATE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP VAPOR AND MIST LEVELS AS LO AS POSSIBLE.

RESPIRATORY PROTECTION: NONE REQUIRED HERE ADEQUATE VENTILATION CONDITIONS EXIST. IF AIRBORNE CONCENTRATION IS HIGH, USE AN APPROPRIATE RESPIRATOR OR DUST MASK.

EYE/SKIN PROTECTION: SAFETY GOGGLES, UNIFORM, APRON, PROPER GLOVES ARE RECOMMENDED.

9 - STORAGE AND HANDLING PRECAUTIONS

SAF-T-DATA(TM) STORAGE COLOR CODE: ORANGE (GENERAL STORAGE)

SPECIAL PRECAUTIONS

KEEP CONTAINER TIGHTLY CLOSED. SUITABLE FOR ANY GENERAL CHEMICAL STORAGE AREA.

10 - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

DOMESTIC (D.O.T.)

PROPER SHIPPING NAME CHEMICALS, N.O.S. (NON-REGULATED)

INTERNATIONAL (I.M.O.)

PROPER SHIPPING NAME CHEMICALS, N.O.S. (NON-REGULATED)