



Carolina International Sales Co., Inc

MATERIAL SAFETY DATA SHEET

2522 Plantation Center Drive
Matthews, NC 28105
(704) 845 9440

www.ciscochem.com

1. PRODUCT NAME: Dipropylene Glycol

2. CHEMICAL NAME:

3. SYNONYMS: DPG

4. CAS NUMBER: 25265-71-8

5. COMPOSITION: Propanol, oxybis-
Cas: 25265-71-8
100.00 %

6. PROPERTIES: APPEARANCE: Colorless liquid
ODOR: Slight odor
BOILING POINT (DEGREES C): 222.2 (432 F)
MELTING/FREEZING POINT (DEGREES C): <-60 (<-76 F)
SPECIFIC GRAVITY (WATER=1): 1.025
PH: 6
VAPOR PRESSURE: < 0.1 mmHg at 20 C (68 F)
VISCOSITY: 98 cSt at 20 C (68 F)
VOC CONTENT: Not determined
VAPOR DENSITY (AIR=1): 4.6
SOLUBILITY IN WATER (%): > 10
OTHER: None
PRODUCTS EVOLVED WHEN SUBJECTED TO HEAT OR COMBUSTION: Toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and ketones may be formed on burning. Heating in air may produce irritating aldehydes, acids, and ketones.
HAZARDOUS POLYMERIZATIONS: DO NOT OCCUR

7. HAZARDS: APPEARANCE: Colorless liquid
ODOR: Slight odor
WARNING STATEMENT: CAUTION May cause dizziness and drowsiness, may cause kidney damage based on animal data.
HAZARD MATERIAL INFORMATION SYSTEM (UNITED STATES):
Health: 0, Fire: 1, Reactivity: 0, Personal Protection: 0
NATIONAL FIRE PROTECTION ASSOCIATION NFPA (UNITED STATES):
Health: 0, Fire: 1, Reactivity: 0
POTENTIAL HEALTH EFFECTS
PRIMARY ROUTE OF EXPOSURE: EYE: X, SKIN: X. INHALATION: X, INGESTION
EFFECTS OF OVEREXPOSURE
ACUTE:
EYES: May cause minimal irritation, experienced as temporary discomfort.
SKIN: Brief contact is not irritating. Prolonged contact, as with clothing wetted with material, may cause defatting of skin or irritation, seen as local redness with possible mild discomfort.
Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from brief skin contact.
INHALATION: Vapors or mist, in excess of permissible concentrations, or in usually high concentrations generated from spraying, heating the material or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea, and drowsiness.
Inhalation may cause dizziness, drowsiness, euphoria, loss of coordination, disorientation, headache, nausea, and vomiting. In poorly ventilated area or confined spaces, unconsciousness and asphyxiation may

IN CASE OF
TRANSPORT EMERGENCY
CONTACT CHEMTREC
USA: 1-800-424-9300
INTERNATIONAL: 1-703-527-3887



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result. Prolonged or repeated overexposed may result in the absorption of potentially harmful amounts of material.

INGESTION: If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur.

SENSITIZING PROPERTIES: Unknown.

CHRONIC; No adverse effects have been documented in humans as a result of chronic exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Repeated overexposure may aggravate existing kidney disease.

OTHER REMARKS: None.

8. FIRE FIGHTING IGNITION TEMPERATURE – AIT (DEGREES C): Not applicable

INFORMATION: FLASH POINT (DEGREES C): 126.7 260 F (PMCC)

FLAMMABLE LIMITS % (LOWER-UPPER): LOWER: Not determined
UPPER: Not determined

RECOMMENDED FIRE EXTINGUISHING AGENTS AND SPECIAL PROCEDURES: use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

UNUSUAL OR EXPLOSIVE HAZARDS: None

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: No special equipment or procedures required.

9. PERSONAL PROTECTION EYE/FACE PROTECTION: Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.

MEASURES: SKIN PROTECTION: Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned.

RESPIRATORY PROTECTION: Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limits of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

VENTILATION: Local exhaust ventilation recommended if generating vapor, dust, or mist. If exhaust ventilation is not available or inadequate, use NIOSH or MSHA approved respirator as appropriate.

10. FIRST AID PROCEDURES: EYES: Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.

SKIN: Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

INGESTION: If more than several mouthfuls of this material are swallowed, give two glasses of water (16 oz.). Get medical attention.

INHALATION: If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

OTHER INSTRUCTIONS: None.

11. EXPOSURE LIMITS: None established for product.

12. TOXICOLOGICAL (ANIMAL TOXICITY DATA)

INFORMATION: ORAL: LD50 Believed to be > 5.00 g/kg (rat) practically non-toxic

INHALATION: Believed to be practically non-toxic

DERMAL: LD50 Believed to be > 2.00 g/kg (rabbit) practically non-toxic

IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES)

SKIN: (Draize) Believed to be < .50/8.0 (rabbit) no appreciable effect



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EYES: (Draize) Believed to be < 15.00/110 (rabbit) no appreciable effect

SENSITIZATION: Not determined.

OTHER: Repeated ingestion of dipropylene glycol has produced kidney damage in laboratory animals.

13. ECOLOGICAL INFORMATION: AQUATIC TOXICITY: Not determined.
MOBILITY: Not determined.
PERSISTENCE AND BIODEGRADABILITY: Not determined.
POTENTIAL TO BIOACCUMULATE: Not determined.
REMARKS: None.

14. DISPOSAL CONSIDERATIONS: This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transportations, mixtures, processes, etc. may render the resulting materials hazardous.

15. CARCINOGENIC PROPERTIES & NOTIFICATIONS: NE

16. TRANSPORT INFORMATION: DOT:
PROPER SHIPPING NAME: Not regulated
HAZARD CLASS: Not regulated
IDENTIFICATION NUMBER: Not regulated
PACKING GROUP: Not regulated
LABEL REQUIRED: Not regulated
IMDG:
PROPER SHIPPING NAME: Not regulated
ICAO:
PROPER SHIPPING NAME: Not regulated
TDG:
PROPER SHIPPING NAME: Regulated
HAZARD CLASS: Not regulated
IDENTIFICATION NUMBER: Not regulated
LABEL REQUIRED: Not regulated

17. HANDLING & STORAGE: HANDLING: Minimum feasible handling temperatures should be maintained.
STORAGE: STORAGE: Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

18. ACCIDENTAL RELEASE MEASURES: PROCEDURES IN CASE OF ACCIDENTAL RELEASE, BREAKAGE OR LEAKAGE: Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

19. REGULATORY INFORMATION: FEDERAL REGULATIONS:
SARA
TITLE III: Section 302/304 Extremely Hazardous Substances: None
SECTION 311 HAZARDOUS CATEGORIZATION: Acute, Chronic X, Fire, Pressure, Reactive, N/A
SECTION 313 TOXIC CHEMICAL: None
CERCLA 102 (a)/DOT HAZARDOUS SUBSTANCES: None



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STATES RIGHT-TO-KNOW REGULATIONS: None

INTERNATIONAL REGULATIONS:

TSCA INVENTORY STATUS: This product, or its components, are listed on, or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

WHMIS CLASSIFICATION: Not regulated.

CANADIAN INVENTORY STATUS: This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).

EINECS INVENTORY STATUS: This product, or its components, are listed on or are exempt from the European Inventory of Existing Chemical Substances (EINECS) or the European List of Notified Chemical Substances (ELINCS).