
DONGYING HI-TECH SPRING CHEMICAL INDUSTRY CO., LTD

Name: PROPYLENE GLYCOL

MATERIAL SAFETY DATA SHEET

1、 COMPOSITION AND INFORMATION ON INGREDIENTS Propylene Glycol

content 99.5% min

CAS No.: 57-55-6

Molecular Weight: 76.09

Chemical Formula: CH₃CHOHCH₂OH

2、 HAZARDS IDENTIFICATION

- 1) Slightly combustible
- 2) Do not handle near heat, sparks or open flame
- 3) Avoid contact with eyes
- 4) Do not cut or weld on or near this container, do not pressurize
- 5) Obey all label warnings especially during container cleaning

3、 FIRST AID MEASURES

Inhalation:

Remove to fresh air. Not expected to require first aid measures.

Ingestion:

Not expected to require first aid measures. Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Skin Contact:

Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.

Eye Contact:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Call a physician if irritation persists.

Note to Physician:

In case of ingestion, monitor for acidosis and central nervous system changes.

Exposed persons with previous kidney dysfunction may require special treatment.

4、 FIRE –FIGHTING MEASURES

1) Fire Extinguishing Media:

Dry chemical

Water

CO₂

Alcohol type foam

2) Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Move exposed containers from fire area, if it can be done without risk. Use water to keep fire-exposed containers cool.

5、 ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 7. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer!

6、 HANDING AND STORAGE

Protect container from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture, and incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product

7、 EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne Exposure Limits:

AIHA Workplace Environmental Exposure Level (WEEL): Vapor and Aerosol = 50ppm; Aerosol, only = 10mg/m³.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee

exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded, a half-face respirator with an organic vapor cartridge and particulate filter (NIOSH type P95 or R95 filter) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece respirator with an organic vapor cartridge and particulate filter (NIOSH P100 or R100 filter) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. Please note that N series filters are not recommended for this material. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

8、PHYSICAL AND CHEMICAL PROPERTIES

- 1) Physical state: water-white sticky-thick liquid
- 2) Boiling point/boiling range : 187.3°C
- 3) Melting point/melting range: -59.5°C
- 4) Flash point : 107°C (open cup) 98.9°C (closed cup)
- 5) Relative density : 1.0381g/ml (20°C)

9、DISPOSAL CONSIDERATIONS

Contents: when disposing of unused contents, comply with applicable regulatory and local procedures

Container :offer empty container to qualified recondition, or crush and dispose of in an approved landfill or by other procedures approved by regulatory and local authorities.

10. TRANSPORT INFORMATION

No regulation

11、REGULATORY INFORMATION

- 1) Information on the warning label: Highly flammable
- 2) Keep out of the reach of children.
- 3) Keep container in a well-ventilated place.
- 4) Keep away from sources of ignition - No smoking.

12、OTHER INFORMATION

Reasons for the confidentiality of the information:

To the best of our knowledge, the information contained here in is accurate. However, neither-----Chemical Company nor any subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any waterial is the sole responsibility of the user. All materials may present unknown hazards and should be used in caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.