

Effective date: 1 January 2011

**Description**

Propylene Glycol is a water-white sticky-thick hydrophilic liquid, with the stable character. It is a food grade product.

**Application:**

Propylene Glycol is used as the carrier of medicine and agent for particle medicine, as a solvent of perfume and edible pigment, emollient in food packing, and anti-adhesive, as humidor, emollient and solvent. It also can be used as tobacco flavour, lubricated solvent, and preservative. As the raw material of non-saturated alkyd resin, plasticizer, dehydration, surface active agent, solidification agent, and cohesive agent. It also used in paint industry, pesticide industry and dope industry etc. It is food grade safe to use in all food processing and manufacturing environments.

**Characteristic data:**

| Item                                   | Index       |
|--|-------------|
| Content%                               | ≥99.5%      |
| Colour Tone (APHA)                     | 10 max      |
| Index of refraction (nD20)             | 1.433-1.435 |
| Moisture%                              | ≤0.2        |
| Free acid (as CH <sub>3</sub> OOH%)ppm | ≤75         |
| Ash ppm                                | ≤80         |

**Other data:**

| Item                        | Index                                   |
|-----------------------------|---|
| Appearance                  | water-white sticky-thick liquid         |
| Melting point/melting range | -59.5°C                                 |
| Flash point                 | 107°C (open cup)<br>98.9°C (closed cup) |
| Boiling point/boiling range | 187.3°C                                 |
| Relative density            | 1.0381g/ml (20°C)                       |



**Solubility**

It is soluble in the organic solvent, such as water and ethanol.

**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 as they retain product residues (vapours, liquid); observe all warnings and precautions listed for the product.

**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.

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