

#### 1. Product Identification

Name: Methanol

Chemical Formula: CH<sub>3</sub>OH

Molecular Weight: 32.04 g/mol

## 2. Classification according to GHS

- Highly flammable liquid Category 2 (H225)
- Acute toxicity Oral, Dermal, Inhalation Category 3 (H301, H311, H331)
- Specific target organ toxicity Single or repeated exposure Category 1 (H370)

## 3. Hazard Statements (H) Shayeshi Industries Co

- H225 Highly flammable liquid and vapor
- **H301** Toxic if swallowed
- H311 Toxic in contact with skin
- H331 Toxic if inhaled
- **H370** Causes damage to organs (e.g., vision, liver)

## 4. Precautionary Statements (P)

#### **Prevention:**

- Wash hands and face thoroughly after handling
- Do not eat, drink, or smoke when using this product
- Keep away from heat, sparks, and flames
- Ground/bond container and receiving equipment to prevent static discharge
- Use non-sparking tools
- Store containers in a cool, well-ventilated place

### **Response:**

- If ingested or in contact: seek immediate medical attention
- Inhalation: move person to fresh air; provide oxygen or artificial respiration if needed
- Skin contact: wash thoroughly with water and remove contaminated clothing
- Fire: use CO<sub>2</sub>, dry powder, or alcohol-resistant foam; avoid direct water jet **Storage and Disposal:**
- Store locked up in a cool, ventilated area
- Dispose of contents and containers according to local regulations

## **5. Physical and Chemical Properties**

- Flash point: 11–12 °C
- Flammable limits: 6 36% in air
- Autoignition temperature: ~470 °C
- Density: 0.79 g/cm³
- Solubility: Completely miscible with water
- Vapor behavior: Heavier than air; can accumulate in low areas

## 6. Toxicity and Health Effects

- Numerical toxicity:
- o Oral LD<sub>50</sub> (rat): 5628 mg/kg
- o Inhalation LC<sub>50</sub> (rat): 87.5 mg/L (6 h)
- Acute symptoms: Headache, fatigue, dizziness, nausea, blurred vision, blindness, coma; symptoms may appear or worsen up to several days after exposure
- Chronic effects: Damage to vision (optic nerve), central nervous system disorders, liver, kidney, and reproductive system damage
- Mechanism of toxicity: Metabolized in the body to formaldehyde and then formic acid, causing metabolic acidosis and cellular toxicity

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