
SECTION 1

Product Name: METHANOL

Supplier's Name: APCO INDUSTRIES CO. LTD.
10 Industrial Street,
Toronto, Ontario M4G 1Z1

Information Telephone: 416-421-6161

Prepared by M.C. Needham

Date: February 1, 2010

WHMIS Classification - Class B Division 2 Flammable Liquid
Class D Division 1 Subdivision A

SECTION 2 - HAZARDOUS INGREDIENTS

Methanol 100% CAS NO: 67-56-1
ORAL LD50 RAT 5.6-13.0 g/kg
DERMAL LD50 RABBIT 20 ml/kg
LC50 RAT 64,000 ppm/4hrs
Immediately dangerous to life & health level 25,000 ppm

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

Chemical Family: Alcohol
Appearance and Odor: Clear, colorless liquid, Alcohol odor.
Boiling Point: 64.5 Deg. C
% Volatile by Volume: 100
Vapour Pressure: 96 mmHg @ 15 Deg. C
Vapour Density (Air = 1): 1.105 @ 15 Deg. C
Specific Gravity: 0.792 @ 20/20 Deg. C
Solubility in Water: Soluble
Evaporation Rate (n-Butyl acetate = 1): 2.1

SECTION 4 - FIRE AND EXPLOSION HAZARD

Flash Point and Method: 11 Deg. C, TCC
Auto Ignition Temperature: 385-470 Deg. C
Flammable Limits (Percent by Volume) (Lel) 6.0 (Uel) 36.0
Hazardous Products of Combustion: Fumes, smoke and carbon monoxide.
Special Fire Fighting Procedures: Respirators required for firefighting personnel. If possible to do so safely, shut off fuel to fire.
Extinguishing Agents: Use dry chemical, carbon dioxide, alcohol foam, or water spray as extinguishing agents. Use water spray to cool fire-exposed surfaces and to protect personnel. When using water spray, boil-over may occur when the product temperature reaches the boiling point of water.

SECTION 5 - REACTIVITY DATA

Stability: Stable
Materials/Conditions to Avoid: Strong oxidizing agents.

SECTION 6 - HEALTH HAZARD DATA

Occupational Exposure Limit: For methanol vapour: 200 ppm (260 mg/cu. m) Skin, ACGIH, 1983-84
Inhalation: The vapours have a low to moderate toxicity. In high concentrations the vapours are irritating and anaesthetic. The irritating properties give warning as anaesthetic concentrations are approached.
Eye Contact: Slightly irritating but does not cause eye tissue damage.
Skin Contact: Due to methanol content, moderate to high toxicity by skin absorption. Slightly irritating to the skin on prolonged or repeated contact.
Ingestion: The principal hazard of methyl alcohol arises from its ingestion in place of ethyl alcohol (whiskey). As little as 15 ml (0.5 oz.) of 40% methyl alcohol may cause death. The most significant is the damage to the optic nerve which can result in permanent visual changes, loss of vision or total blindness.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

Adequate ventilation should be provided to maintain the total hydrocarbon concentration below the above mentioned occupational exposure limit. Avoid frequent or prolonged skin contact. Wear suitable eye protection if the possibility of splashing exists.

Keep container closed. Store in cool place well removed from strong oxidants, sources of ignition and building exits.

Product is a static accumulator. Take precautions as to adequate grounding etc. when transferring at temperatures near or above flash point.

Containers of this material may be hazardous when emptied. Emptied containers retain product residue (vapour, liquid etc.)

IN CASE OF SPILL

Remove all sources of ignition. Prevent from entering sewers or water courses. Ventilate enclosed spaces or wear respiratory protection.

Procedures For Clean-up: Pump up (explosion proof motor) or soak up with sand, cotton waste or other absorbant.

Waste Disposal: Controlled incineration or use waste disposal service. In case of large spills, warn public of downwind explosion hazard.

SECTION 8 - EMERGENCY FIRST AID PROCEDURES

Inhalation: Rescuers should wear respiratory protection. Remove immediately from contaminated area. Apply artificial respiration if breathing has stopped. Call a physician.

Eye Contact: Flush with water for at least 15 minutes, and obtain prompt medical attention.

Skin Contact: Wash with soap and water.

Ingestion: Due to toxicity, induce vomiting and call a physician.

SECTION 9 - SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

Methanol is regulated under the Transportation Dangerous Goods Regulations.

Shipping Name: Methanol
Class: 3(6.1)
UN Number: UN1230
Packing Group: II

The information provided in this Material Safety Data Sheet has been obtained from sources believed to be reliable. Apco Industries Co. Ltd. provides no warranties express or implied and assumes no responsibility for the accuracy or the completeness of the data contained herein.