



24 HOUR EMERGENCY ASSISTANCE
 CHEMTREC 800-424-9300
 HAZARD RATING

IMPORTANT
MATERIAL SAFETY DATA SHEET

READ CAREFULLY BEFORE USING CHEMICAL
 OSHA requires that this page kept on file.

Product No. **KM 686 M**
 Product Name **PHENOLPHTHALEIN SOLUTION**

1. EXTREME	Health Hazard	1
2. SEVERE	Flammability	3
3. MODERATE	Reactivity	0
4. SLIGHT		
5. MINIMAL		

SECTION I	NAME
Chemical Synonyms	None
Formula	Mixture
C.A.S. No.	77-09-8

SECTION II	HAZARDOUS INGREDIENTS OF MIXTURES
Principal Hazardous Components	PEL
Phenolphthalein CAS# 77-09-8	<1% none
Ethyl Alcohol* CD 190 proof CAS# 64-17-5	<99% 200ppm none

SECTION III	PHYSICAL DATA
Melting Point (°F)	NA
Boiling Point (°F)	148°F
Vapor Pressure (mm Hg)	97 @ 68°F
Vapor Density (Air=1)	1.1
Solubility in Water	100%
Appearance & Odor	Clear colorless liquid with a characteristic pungent alcohol odor.

SECTION IV	FIRE AND EXPLOSION HAZARD DATA
Flash Point (Method Used)	52°F
Extinguisher	Carbon dioxide, dry chemical, alcohol foam, and water mist or fog.
Special Firefighting Procedures	Use a blanket effect to smother fire. Wear self contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS
 Moderate explosion hazard and dangerous fire hazard when exposed to heat, sparks, or flames and can react vigorously with oxidizing agents.

D.O.T. Ethanol solutions, 9-UN1170, PG11
 Approved for the U.S. Department of Labor Occupational Safety and Health, OSHA, 2006

SECTION V HEALTH HAZARD DATA
 Threshold Limit Value
 None

Effects of Overexposure
 Contains methanol, a poisonous, narcotic chemical that can affect the body through inhalation, ingestion, and perhaps prolonged or repeated skin contact. Absorption by inhalation is rapid and excretion is much slower than for Ethyl Alcohol, resulting in delayed effects or compounding of effects by repeated exposure. It is important to be aware that after ingestion or inhalation, initial symptoms may be only that of mild intoxication, especially the optic nerve. Ingestion can produce blindness. 100-250 ml can be fatal. Symptoms of over exposure include dizziness, visual impairment, nausea, respiratory failure, muscular incoordination and narcosis. Prolonged or repeated skin contact may cause dermatitis, erythema, scaling, and possibly systemic effects.

Emergency and First Aid Procedures
 Harmful if swallowed. Avoid breathing vapors. Avoid contact with eyes, skin and clothes. Wash thoroughly after handling. Contains methyl alcohol. C.E.S. Must be made nonpoisonous. **FIRST AID: CALL A PHYSICIAN. SKIN:** Remove contaminated clothing. Wash skin with soap and water. **EYES:** Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelid occasionally. Get medical attention immediately. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. **INGESTION:** If swallowed, induce vomiting after giving two glasses of water. Never give anything by mouth to an unconscious person. **NOTES TO FOLLOWING:** Hemodialysis; the intravenous administration of ethanol (10 ml/hr) to interfere with the metabolism of methanol; and the administration of sodium bicarbonate to correct acidosis.

SECTION VI	REACTIVITY DATA
Stable <input checked="" type="checkbox"/> Incompatible (Materials to Avoid)	Strong oxidizer agents such as nitrates, perchlorates or sulfuric acid.
Hazardous Decomposition Products	Toxic gasses and vapors (carbon monoxide, formaldehyde) may be released in a ethanol fire.
Hazardous Polymerization	Conditions to Avoid
May Occur <input type="checkbox"/> Will Not Occur <input checked="" type="checkbox"/>	Heat, strong oxidizing agents.

SECTION VII SPILL OR LEAK PROCEDURES
 Steps to be Taken in Case Material is Released or Spilled
 1. Remove all ignition sources. 2. Provide adequate ventilation. 3. Small quantities may be absorbed on paper towels. Evaporate in a safe place (such as a fume hood) Burn paper in an approved incinerator or open pit away from buildings and people. Large quantities can be collected and stored in a suitable combustion chamber. Spills in sensitive areas may be diluted and flushed to ground with water and spray. Do not flush to sewer or other confined space.

Waste Disposal Method
 Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Absorb in vermiculite, dry sand, earth or a similar material and dispose in a secured sanitary landfill. Atomize in a suitable combustion chamber, dispose of via a licensed waste solvent disposal company, or reclaim via filtration procedures.

SECTION VIII	SPECIAL PROTECTION INFORMATION
Respiration Protection (Specify Type)	NIOSH approved air-supplied respirator or self-contained breathing apparatus.
Ventilation	Local Exhaust: To meet TLV requirements Mechanical (General): Control metal to prevent explosion proof Other: Special:
Protective Gloves	Rubber Gloves
Other Protective Equipment	Eye Protection Safety Glasses
Other Precautions	Impervious aprons, boots and face shields where splashing can occur.

SECTION IX SPECIAL PRECAUTIONS
 Precautions to be Taken in Handling & Storing
 Keep container tightly closed when not in use. Ground and electrically interconnect containers for transfer. Use spark-proof tools. No smoking in areas of use or storage. Avoid prolonged or repeated breathing of vapor or contact with skin. Avoid contact with eyes. Contact lenses should not be worn while handling Methanol. Eye wash stations and safety showers should be available in areas of use. Do not ingest. Store in a well ventilated, fireproof area, away from sources of heat, open flame, and ignition.

Other Precautions
 Read label on container before using. Do not wear contact lenses when working with chemicals. Provide competent medical exams for industrially exposed workers, with emphasis on neurological and visual functions, liver and kidney systems. Provide suitable training to those working with Methanol. Monitor the work place. Keep records.

Approved by Steven C. Quandt Effective Date 4/21/2006 For laboratory use only. Not for drug, food or household use. Keep out of reach of children.