



Safety Data Sheet

MS-100
METHANOL

Last Revised
2-24-17
CAUTION CODE 1-3-0

SECTION 1, SUPPLIER INFORMATION

Manufacturer: Quick Pump Service LLC P.O. Box 813 7284 S. Hwy 81 Hennessey OK. 73742	Information Phone: 405-853-1519
	Emergency: 405-853-1519

SECTION 2, HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	(CAS Number)	OSHA PEL	ACGIH TLV	OTHER
METHANOL	(67-56-1)	200 ppm(8hrs. TWA) STEL 250 ppm skin	200ppm(8 hrs. TWA) 250ppm skin	

AEL (Acceptable Exposure Limit) 200 ppm (where governmentally imposed occupational exposure limits which are lower than AEL are in effect, such limits shall take precedence).

SECTION 3, PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	148.4 deg. F. @ 760 mm Hg.
Specific Gravity (H ₂ O=1)	0.791 @ 68 deg. F.
Vapor Pressure	77 deg. F. @ 127 mm Hg & 238 mm Hg
Freezing Point	-143.8 deg. F
Vapor Density (Air=1)	1.1
Evaporation Rate (BuAc=1)	> 1
Molecular Weight	32.04
Solubility in Water	SOLUBLE
Appearance and Odor	LIQUID, COLORLESS, CLEAR, FAINT ALCOHOLIC ODOR

SECTION 4, FIRE & EXPLOSION HAZARD DATA

Flash Point (Method)	52 deg. F. method (TCC)
Flammable Limits	Lower – 6% Upper – 36% (By Volume in Air)

Autoignition Temperature 725 deg. F.

Autodecomposition NA

Extinguishing Media: WATER SPRAY, FOAM, DRY POWDER, CARBON DIOXIDE (CO₂)

Special Fire Fighting Procedures: APPROACH FIRE FROM UPWIND SIDE. AVOID BREATHING SMOKE, FUMES, MIST OR VAPORS ON THE DOWNWIND SIDE. WEAR SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire and Explosion Hazards: FLAMMABLE LIQUID. FLAME IS INVISIBLE IN DAYLIGHT. METHANOL–WATER MIXTURES WILL BURN UNLESS VERY DILUTE; MIXTURES WITH 25% OR MORE METHANOL ARE OSHA CLASS 1 FLAMMABLE LIQUIDS. FOLLOW APPROPRIATE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES.



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SECTION 5, REACTIVITY INFORMATION

STABILITY

Product is: Stable? YES

Unstable? NO

INCOMPATIBILITY

Materials to avoid: DO NOT STORE OR MIX WITH STRONG OXIDIZERS, CHRONIC ANHYDRIDE, LEAD PERCHLORATE, OR PERCHLORIC ACID (Reacts vigorously)

Hazardous Decomposition or Byproducts, FROM FIRE: OCCURS FROM HEAT AND REACTION WITH ABOVE STATED MATERIALS.

Hazardous Polymerization: WILL NOT OCCUR

CONTAINERS MAY RUPTURE FROM INTERNAL PRESSURE IF CONFINED TO FIRE AREA. COOL WITH WATER. GET NON-ESSENTIAL PEOPLE OUT OF THE AREA.

SECTION 6, HEALTH HAZARD DATA

ROUTES OF ENTRY

Inhalation? IRRITANT

Skin? IRRITANT

Ingestion? IRRITANT

HEALTH HAZARDS

Signs and Symptoms of Overexposure:

Acute: HUMAN HEALTH EFFECTS OF *OVEREXPOSURE BY INHALATION, INGESTION, OR SKIN OR EYE CONTACT* MAY INCLUDE NONSPECIFIC DISCOMFORT SUCH AS NAUSEA, OR **WEAKNESS**; TEMPORARY NERVOUS SYSTEM DEPRESSION WITH ANESTHETIC EFFECTS SUCH AS DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION, AND LOSS OF CONSCIOUSNESS, OR BLINDNESS.

HIGHER EXPOSURES MAY LEAD TO ABNORMAL LIVER FUNCTION AS DETECTED BY **LABORATORY TESTS**; ABNORMAL KIDNEY FUNCTION AS DETECTED BY LABORATORY TESTS; OR FATALITY FROM GROSS OVEREXPOSURE.

INGESTION OF AS LITTLE AS 60 mL MAY CAUSE BLINDNESS OR FATALITY. NO EVIDENCE OF REPRODUCTIVE EFFECTS HAS BEEN REPORTED FOR HUMANS. SKIN PERMEATION CAN OCCUR IN AMOUNTS CAPABLE OF PRODUCING SYSTEMS TOXICITY.

Chronic: INDIVIDUALS WITH PREEXISTING DISEASES OF THE RETINA OR LIVER MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

TOXIC DATA:	Inhalation 1-hour LC50	>145,000 ppm in rats
	Skin Absorption LD50	15,840 mg/kg in rabbits
	Oral LD50	9100 mg/kg in rats

The compound is an eye and skin irritant. Toxic effects described in animals from short exposures by inhalation, ingestion, or skin contact includes anesthetic effects, liver effects, blindness, and acidosis. Information available on reproductive effects is not sufficient to characterize the reproductive hazard. The compound produced developmental effects in rats exposed by inhalation to 10,000 to 20,000 ppm, but because maternal effects also occurred at those high concentrations, it would conclude that methanol is not a significant hazard to the conceptus. Tests in bacterial or mammalian cell structures demonstrate no mutagenic activity



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	CARCINOGENICITY	
Listed in; NTP? NO	IARC Monographs? NO	OSHA Regulated? NO

INGESTION: AS LITTLE AS 60 mL MAY CAUSE BLINDNESS OR FATALITY. IMMEDIATELY GIVE TWO GLASSES OF WATER AND INDUCE VOMITING. CALL PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION IF SYMPTOMS DEVELOP AND PERSIST.

SKIN CONTACT: IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN. WASH CONTAMINATED CLOTHING AND SHOES BEFORE REUSE.

INHALATION: IF INHALED, IMMEDIATELY MOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN.

NOTES TO PHYSICIAN: Provide standard methanol ingestion treatment. To prepare the antidote, make a solution using 10 mL of 100-proof ethyl alcohol (grain alcohol) in 2000 mL of water and give 1.5 mL/Kg of body weight, or 100 mL for an average adult. Following this, at 2-hour intervals for 4 days, give the antidote (0.5 – 1.0 mL/Kg of body weight, orally or intravenously to reduce the metabolism of the methanol and to allow time for this excretion. Blood ethanol levels should be 1.0 – 1.5 mg/mL).

SECTION 7, PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled, *SMALL SPILLS* –Pick up with absorbent media. STORE AS HAZARDOUS WASTE. *LARGE SPILLS*—Contain with dikes, pick up with vacuum truck. HANDLE AS HAZARDOUS WASTE. NOTIFY proper Local, State, and Federal agencies.

Waste Disposal Method, EPA APPROVED HAZARDOUS WASTE DISPOSAL SITE. Follow applicable Local, State and Federal regulations.

Precautions to be taken in handling and storage: STORE IN A COOL, VENTILATED AREA, AWAY FROM IGNITION SOURCES.

SECTION 8, CONTROL MEASURES

Respiratory Protection: NIOSH APPROVED ORGANIC VAPOR MASK

Ventilation:	Local Exhaust—DESIRED	Special—
	Mechanical—DESIRED	Other—

Protective Gloves: CHEMICAL RESISTANT GLOVES SUITABLE FOR ORGANIC SOLVENTS.

Eye Protection: CHEMICAL GOGGLES OR FULL FACE SHIELD



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SECTION 8, CONTROL MEASURES, cont.

Other Protective Equipment: APRONS

Work Hygienic Practices: AVOID CONTACT WITH SKIN, EYES AND CLOTHING. AFTER HANDLING THIS PRODUCT, WASH HANDS BEFORE EATING, DRINKING, OR SMOKING. IF CONTACT OCCURS, REMOVE CONTAMINATED CLOTHING. IF NEEDED, TAKE FIRST AID ACTION SHOWN IN SECTION 6.

LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

SECTION 9, TRANSPORTATION INFORMATION

DOT Proper Shipping Name	Hazard Class	UN/NA Number	RQ (If Needed)
METHANOL	FLAMMABLE LIQUID, NOS, 3, PG II,	UN 1230	5000 lbs/2270 Kg

SECTION 10, OTHER DATA

EPA Hazards	1-Acute, YES	2-Chronic, YES	3-Flammability, YES
	4-Sudden Release of Pressure, NO	5-Reactive, NO	

CERCLA RQ, YES
 Hazardous Waste Number, D001 IGNITABLE
 Clean Air Act, NO
 SARA TITLE III, YES
 Clean Water Act, NO

NA-Not applicable		ND-Data not available
CS-Cancer Suspect Agent	OX-Oxidizer	COR-Corrosive

The data presented is true and correct to the best of our knowledge and belief, however, neither seller nor preparer makes any warranties, express or implied, concerning the information presented. The user is cautioned to perform his own hazard evaluation and to rely upon his own determinations.