

MATERIAL SAFETY DATA SHEET

METHANOL

Latest Revision Date...07/19/06

Print Date.....07/18/07

SECTION 1

MANUFACTURER INFORMATION

HYDRO-ZONE INC.
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FOR CHEMICAL EMERGENCY
CALL INFOTRAC @ 1-800-535-5053
24 HRS/DAY, 7 DAYS/WEEK

SECTION 2

PRODUCT IDENTIFICATION

PRODUCT NUMBER..... HZ M240
TRADE NAME OR CHEMICAL NAME... METHANOL
SYNONYMS..... Methyl Alcohol, Wood Alcohol
CHEMICAL FAMILY..... Alcohol
NFPA - HEALTH HAZARD..... 1
FIRE HAZARD..... 3
REACTIVITY HAZARD..... 0
NFPA SCALE..... 4=Extreme 3=High 2=Moderate 1=Slight 0=Insignificant
KEY..... NA= Not Applicable ND= Not Determined

SECTION 3

HAZARDOUS INGREDIENTS

CHEMICAL NAME(S)	CAS NUMBER	% WT	TLV-TWA	PEL	SEC.313	CARCINOGEN?
Methyl Alcohol	67-56-1	>99	200 ppm	200 ppm	Yes	No

SECTION 4

SHIPPING DATA

D.O.T. PROPER SHIPPING NAME... Methanol
D.O.T. HAZARD CLASS..... Flammable Liquid Class 3
D.O.T. LABELS REQUIRED..... Flammable Diamond
UN/NA I.D. NUMBER..... UN 1230
PACKAGING GROUP..... II
NON-BULK SHIPPING NAME..... Methanol, 3, UN 1230, PG II
BULK SHIPPING NAME..... Methanol, 3, UN 1230, PG II, RQ 5000 lbs.

SECTION 5

PHYSICAL DATA

BOILING/FREEZING POINT @760 mmHg... 148°F (64.5°C) / -144°F (-97.8°C)
pH..... NA
VAPOR PRESSURE mm Hg @20° C..... 96
VAPOR DENSITY (Air = 1)..... 1.105 @ 15°C (59°F)
PERCENT VOLATILE BY WEIGHT (%)..... 100
SPECIFIC GRAVITY @20°C..... 0.792
SOLUBILITY IN WATER..... Complete
EVAPORATION RATE..... (n-Butyl Acetate=1) 2.1
APPEARANCE AND ODOR..... Colorless liquid with alcohol odor.

SECTION 6

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Test Method)..... 52°F (11°C) T.C.C.
AUTOIGNITION TEMPERATURE..... 385°C
FLAMMABILITY LIMITS IN AIR (% V)... LEL 6% UEL 36%

METHANOL

SECTION 6

FIRE AND EXPLOSION HAZARD DATA

CONT'D

EXTINGUISHING MEDIA..... Water Spray, Dry Chemical, CO2
SPECIAL FIRE FIGHTING PROCEDURES... Fire fighters must wear full, positive pressure, self contained breathing apparatus and appropriate protective clothing.
UNUSUAL FIRE & EXPLOSION HAZARDS... Methanol burns with a clear flame that is almost invisible in daylight.

SECTION 7

REACTIVITY DATA

PRODUCT STABILITY..... Stable
Conditions to Avoid..... NA
CHEMICAL INCOMPATIBILITY..... Strong oxidizers, strong acids, strong bases. May be corrosive to aluminum
HAZARDOUS DECOMPOSITION PRODUCTS... Carbon monoxide, carbon dioxide and formaldehyde.
HAZARDOUS POLYMERIZATION..... Will Not Occur

SECTION 8

HEALTH HAZARD DATA

SKIN CONTACT... May cause irritation, can be absorbed thru the skin.
EYE CONTACT... Moderate irritation, redness, tearing, blurred vision.
INHALATION.... May cause nasal and respiratory irritation , dizziness, nausea, headache.
INGESTION..... Swallowing even small amounts of methanol may cause blindness and even death. Effects of sub lethal doses can cause blindness nausea, headache and abdominal pain.

SECTION 9

EMERGENCY AND FIRST AID PROCEDURES

SKIN.....Remove contaminated clothing and flush exposed skin with soap and water. If irritation persists or develops, get medical attention. Launder contaminated clothing before reuse.
EYES.....Immediately flush eyes with large amounts of water for 15 minutes and get medical attention.
INGESTION...If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. Never give anything by mouth to an unconscious person.
INHALATION...Move to fresh air. Aid in breathing, if necessary, and get medical attention.

SECTION 10

ENVIRONMENTAL DATA

SPILL OR LEAK PROCEDURES... Eliminate ignition sources. Keep upwind. Absorb with sand or inert material and place in suitable container for disposal.
WASTE DISPOSAL METHOD..... Ignitable. Dispose of in accordance with all federal, state and local regulations.
HAZARDOUS WASTE 40CFR261... Yes. Hazardous Waste Number: D001
CONTAINER DISPOSAL..... Empty containers may contain residuals. Thoroughly clean, then offer for recycling , reuse, or disposal in accordance with governmental regulations.

SECTION 11

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION.....Respirator not required with most applications.
VENTILATION.....Local exhaust is generally sufficient to minimize exposure.
PROTECTIVE CLOTHING.....Neoprene gloves, apron, boots - as necessary to prevent skin contact.
EYE PROTECTION.....Chemical goggles.
OTHER PRECAUTIONS.....Safety shower and eyewash fountains should be easily accessible.

SECTION 12

SUPPLIER INFORMATION

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of manufacturer. The data on this sheet relates only to the specific material designated herein. Manufacturer assumes no legal responsibility for use or reliance upon this data.