



Monarch Oil (Kitchener) Limited

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MATERIAL SAFETY DATA SHEET

EMERGENCY: CANUTEC (613) 996-6666

HC270

MSDS

PRODUCT IDENTIFICATION AND USE

NAME OF PRODUCT : Vision X - 40°C
USE OF PRODUCT : Windshield washer fluid

TRANSPORTATION OF DANGEROUS GOODS

TDG

SHIPPING NAME : Alcohols, flammable, toxic N.O.S. (methanol/water solution) (> 450L only)

WHMIS CLASSIFICATION : B2, D1B, D2A, D2B

P.N.I. : UN 1986

PRIMARY CLASS : 3

PACKING GROUP : III

SUBSIDIARY CLASS : 6.1

U.S. DOT HAZARD CLASSIFICATION (For Ground Shipments Only)

HAZARD CLASS/PACKING GROUP: **ORM-D**

Alcohols, flammable, toxic N.O.S. (methanol/water solution), 3,(6.1)UN1986, PGIII

Quantities limit passenger : 60L, Quantities limit cargo aircraft : 220L, Vessel slow req locations : A,

Special Provision: B1,IB3,T7,TP1,TP28

DOT MARINE POLLUTANTS: This product does not contain Marine Pollutants as defined in 49 CFR 171.8.

IMDG CODE SHIPPING CLASSIFICATION:

Only containers not over 5L can be shipped as Limited Quantities

Shipping Name: Alcohols, flammable, toxic N.O.S. (methanol/water solution), 3,(6.1)UN1986, PGIII, FP38C,

IBC instructions : IBC 03, Pack instructions non bulk: P001, Slow&Seg: Category A, Outer package cannot weigh more then 30 kg, Special Provision:223,274,944

IATA REGULATIONS:

Shipping Name: Alcohols, flammable, toxic N.O.S. (methanol/water solution), 3, UN1986, PGIII

UN 1986, Class: 3,(6.1) PG: III, Hazard Label: Flammable Liquid&Toxic, Passenger quantities: 60L, Cargo bulk qty: 220L, Air craft Lim. Qty.: 2L, Ltd.Qty. Packaging instruction:Y309 , ERG code:3HP, Special Provision:A3

COMPONENTS

COMPOSITION	% B/W	CASE #	LD ₅₀ mg/kg Oral/rat	LC ₅₀ ppm 4h	TLV ppm 8h
Methanol	40-48	67-56-1	6200 to 13 000	64 000	200
Performance additives					

PHYSICAL CHARACTERISTICS

PHYSICAL STATE :	APPEARANCE :	ODOR :	ODORTRESHOLD :
Liquid	Blue	Alcohol	Not available
VAPOR TENSION :	VAPOR DENSITY :	EVAPORATING RATE :	

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Not available	Not available	Not available
BOILING RANGE : 79°C	FREEZING POINT : -40°C	pH : N/A
DENSITY (20°C) : 0,934	DISTRIBUTION FACTOR WATER/OIL : Not available	SOLUBILITY IN WATER (25°C) : 100%

REACTIVITY DATA

CHEMICAL STABILITY : Stable

INCOMPATIBILITY WITH OTHER PRODUCTS : Avoid contact with oxidizing agents, strong bases and strong acids. Avoid using in presence of natural rubber. May corrode lead and aluminum.

REACTIVITY CONDITIONS : Avoid excessive heat, flames and other ignition sources. No hazardous polymerization.

EXPLOSION AND FIRE RISKS

FLAMMABILITY : Flammable

EXTINGUISHING METHODS : Water, dry chemical powder purple K, FAM resistant to alcohol with 6% foam or carbon dioxide.

FLASH POINT : 28°C close cup

AUTO-IGNITION TEMPS. : 385°C

FLAMMABILITY (% per volume)

SUPERIOR LIMIT : Not available

LOWER LIMIT : 3,2

HAZARDOUS COMBUSTION PRODUCT : Vapors forms a flammable/explosive mixture with air between upper and lower flammable limits. Combustion may produce carbon dioxide, carbon monoxide and formaldehyde.

EXPLOSIBILITY DATA :

TOXICOLOGICAL PROPERTIES

ABSORPTION WAYS			CONTACT						
SKIN	✓	INHALATION	✓	INGESTION	✓	WITH SKIN	✓	EYES	✓

EFFECTS OF EXPOSURE TO PRODUCT : Swallowing even small amount of methanol can cause blindness and death other effects may be nausea, headache, abdominal pain, vomiting and visual disturbances ranging from blurred vision to light sensitivity. Inhalation of high airborne concentration can also irritate mucous membranes, cause sleepiness, confusion, loss of consciousness, digestive and visual disturbances and death. May be absorbed through the skin in toxic or lethal amounts. Causes mild irritation, redness, cracking and drying. Repeated exposure by inhalation or absorption may cause systemic poisoning, brain disorders, impaired vision and blindness. Inhalation may worsen conditions such as emphysema or bronchitis.

PREVENTIVE MEASURES

PROTECTIVE EQUIPMENT : Gloves, security glasses and protective apron.

GLOVES : Butyl and nitrite.

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RESPIRATORY SYSTEM : Necessary over the permitted limit.

OCULAR INSTRUMENT : Security glasses and face shield.

CLOTHING : Apron, jacket

TECHNICAL CONTROL : Ventilation

PROCEDURE IN CASE OF LEAKS/SPILLS : Extremely flammable liquid. Eliminate all ignition sources, stop spill and use absorbent materials. Collect liquid with explosion proof pumps. For small spills, collect with a non-combustible absorbent. Recover methanol or dilute with water to reduce fire hazard. Do not throw in the sewers or garbage.

HANDLING : Avoid breathing vapor. Do not get in eyes, skin or on clothing. Wash thoroughly with soap and water after handling.

WASTE DISPOSAL : Incineration, biological treatment of dilute solution, or landfill of solidified prior to disposal in accordance with local, federal and provincial regulations.

STORAGE : In a cool, dry and well ventilated area. Keep away from incompatible material and from sources of ignition (naked flames, sparks, electricity). Keep the containers grounded especially during pumping and transfer operations.

FIRST AID

EYES : Flush eyes gently with water for at least 15 minutes while holding eyelids apart ; seek immediate medical attention.

SKIN : Remove contaminated clothing. Wash exposed area with soap and water for at least 20 minutes. If irritation occurs seek medical attention. Launder clothing before reuse.

INGESTION : If conscious and medical aid is not immediately available, dilute stomach contents by giving large amounts of water or milk and induce vomiting. Transport to medical attention immediately.

INHALATION : Remove to fresh air. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen. Seek immediately medical attention.

NOTES TO THE ATTENTION OF THE DOCTOR : If the concentration of methanol exceed 20 mg per deciliter, if doses swallowed exceed 30 mm and if there is trace of acids or perturbations of eye sight, a solution of ethanol at 10% in an solution of dextrose at 5%, intravenous, constitutes an affective antidote. (Western Journal of Medicine, March 1985, pg. 337)

INFORMATION ON THE M.S.D.S. PREPARATION

PREPARED BY :

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Hall Chem Mfg. Inc.

NOTE :

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