

W SECTION 1 - MATERIAL IDENTIFICATION AND USE					
MATERIAL NAME/IDENTIFIER ANTI-FREEZE/COOLANT				CONTROL NUMBER CN29567	
PART NUMBER(S) 993088 993089 993090				FIRE : LOW CORROSIVE : NONE CONTACT : NONE HEALTH HAZARD : LOW	
MANUFACTURER NAME EQUILON ENTERPRISES LLC		SUPPLIERS NAME GENERAL MOTORS OF CANADA			
STREET ADDRESS P.O. BOX 674414		STREET ADDRESS 1908 COLONEL SAM DRIVE			
CITY HOUSTON	PROVINCE/STATE COUNTRY TX USA	CITY OSHAWA	PROVINCE/STATE COUNTRY ONTARIO CANADA		
POSTAL CODE 77267-4414	EMERGENCY TELEPHONE NO. 877-276-7285	POSTAL CODE L1H 8P7	EMERGENCY TELEPHONE NO. 905-644-7091		
PRODUCT DESCRIPTION ANTI-FREEZE/COOLANT					
CHEMICAL NAME NOT AVAILABLE			TRADE NAME AND SYNONYMS NOT AVAILABLE		
CHEMICAL FAMILY NOT AVAILABLE		CHEMICAL FORMULA NOT AVAILABLE		MOLECULAR WEIGHT NOT AVAILABLE	
MATERIAL USE NOT AVAILABLE					
TDG SHIPPING NAME NOT REGULATED			U.N. NUMBER NOT REGUL	CLASS/DIVISION	PACKING GROUP
WHMIS CONTROLLED PRODUCT YES		WHMIS CLASS D - POISONOUS AND INFECTIOUS MATERIAL D - POISONOUS AND INFECTIOUS MATERIAL			
WHMIS DIVISION 1 - MATERIALS CAUSING IMMEDIATE AND SERIOUS TOXIC EF 2 - MATERIALS CAUSING OTHER TOXIC EFFECTS			WHMIS SUBDIVISION B - TOXIC MATERIAL A - VERY TOXIC MATERIAL		
SECTION 2 - CHEMICAL COMPOSITION INCLUDING HAZARDOUS INGREDIENTS					
INGREDIENTS	% OR RANGE	UN, NA OR CAS NUMBER	8HR TWA EV PPM MG/M3	15MIN STEL PPM MG/M3	CEILING PPM MG/M3
(R) ETHYLENE GLYCOL	90-97	107-21-1	50(C) 100	50(C)	
DIETHYLENE GLYCOL	1-5	111-46-6	50		
SECTION 3 - PHYSICAL DATA					
BOILING POINT 107.8°C	FREEZING POINT NOT AVAILABLE		SPECIFIC GRAVITY 1.13		
VAPOUR PRESSURE < 0.1 MM HG @20°C	VAPOUR DENSITY 2.1 @20°C		DENSITY NOT AVAILABLE		
SOLUBILITY IN WATER MISCIBLE @10°C	% VOLATILE (BY VOLUME) NOT AVAILABLE		EVAPORATION RATE NOT AVAILABLE		
pH 10.2 - 11 100% SOL	PHYSICAL STATE LIQUID	COEFF. WATER/OIL DIST. NOT AVAILABLE		ODOUR THRESHOLD NOT AVAILABLE	
ODOUR AND APPEARANCE GREEN LIQUID, FAINT OR MILD ODOUR					
SECTION 4 - FIRE AND EXPLOSION DATA					
FLASHPOINT AND METHOD 127°C PMCC	LOWER EXPLOSION LIMIT 3.2 %		UPPER EXPLOSION LIMIT NOT AVAILABLE		
AUTO IGNITION TEMPERATURE NOT AVAILABLE	SENSITIVITY TO IMPACT NOT AVAILABLE		SENSITIVITY TO STATIC DISCHARGE NOT AVAILABLE		
FLAMMABILITY These materials are a fire hazard when exposed to heat or flame.					
MEANS OF EXTINCTION Use carbon dioxide, dry chemical, or chemical foam to extinguish. Use water spray to cool exposed surroundings or containers.					

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SPECIAL PROCEDURES

Firefighters must use self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION PRODUCTS

Burning in air can produce toxic vapours and gases.

SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY

Products are stable in closed containers under normal storage and handling procedures, as specified in the Workplace MSDS.

INCOMPATIBILITY AND REACTIVITY

Incompatible with strong oxidizing agents (eg. fluorine, chlorine, and concentrated sulphuric acid).
These materials are degraded by acids.

HAZARDOUS DECOMPOSITION PRODUCTS

CARBON MONOXIDE, CARBON DIOXIDE, IRRITATING ALDEHYDES AND KETONES

SECTION 6 - TOXICOLOGICAL PROPERTIES

BIOLOGICAL EFFECTS

These materials present a low degree of health hazards when handled properly. Avoid ingestion and eye contact.
The principal health hazard of glycols is the ingestion of large quantities in single doses.
An inhalation hazard exists if glycols are used at elevated temperatures and vapours, mists or fogs are produced.
Oral administration of very high doses of ethylene glycol have produced birth defects in laboratory animals.
Severe kidney damage or failure may occur from ingestion of large quantities.
Material may be absorbed through the skin.

LD50 OF MATERIAL
NOT AVAILABLELC50 OF MATERIAL
NOT AVAILABLEIRRITANCY OF MATERIAL
NOT AVAILABLESENSITIZING CAPACITY OF MATERIAL
UNKNOWNSYNERGISTIC MATERIALS
NOT AVAILABLE

CARCINOGENICITY OF MATERIAL
Does not contain any ingredient(s) that are designated carcinogens according to WHMIS criteria.

REPRODUCTIVE EFFECTS OF MATERIAL
NOT AVAILABLETERATOGENICITY
NOT AVAILABLEMUTAGENICITY
NOT AVAILABLE

SECTION 7

EFFECTS OF ACUTE EXPOSURE TO MATERIAL

FIRST AID MEASURES

ROUTE OF EXPOSURE: INHALATION

If these materials are heated or misted into the air they can cause nausea and respiratory irritation.
Inhalation of progressively higher concentrations above the Employee Exposure Guidelines will result in headache, dizziness, impairment of coordination and narcosis (drowsiness).

FIRST AID

Remove to fresh air.
Restore or support breathing if required.
If irritation persists, seek medical attention.

ROUTE OF EXPOSURE: SKIN

Slight skin irritation may occur.

Wash exposed area with soap and warm water.
If irritation persists, seek medical attention.

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ROUTE OF EXPOSURE: EYES

Eye contact results in pain and irritation.

IMMEDIATELY flush eyes with copious quantities of water while holding eyelids open with the thumb and forefinger. Continue for 15 minutes. Seek medical attention, after flushing. If irritation persists, seek medical attention.

ROUTE OF EXPOSURE: INGESTION

Ingestion could result in dizziness, vomiting, abdominal pain and diarrhea. These materials are poisonous and ingestion of less than 5 fluid ounces (150 ml) may be fatal.

Seek IMMEDIATE medical attention. Give 3 or more glasses of milk or water to drink, ONLY if the victim is conscious.

SECTION 8 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT
GLOVES

Nitrile rubber or neoprene protective gloves should be worn.

RESPIRATORY PROTECTION

Use NIOSH approved respirator for organic vapours (TC-23-C) if products are heated and adequate ventilation cannot be provided.

EYE PROTECTION

FOOTWEAR

CLOTHING

OTHER

ENGINEERING CONTROLS

LEAK AND SPILL PROCEDURE: SMALL SPILLS

For small spills, ventilate area.

Contain spill.

Personnel working on the clean up of a spill must wear seamless nitrile rubber or neoprene gloves.

Absorb spill with an inert absorbent such as clay or "speedi dri".

Shovel up the used absorbent and place into a closed labelled plastic or plastic lined drum.

LEAK AND SPILL PROCEDURE: LARGE SPILLS

For large spills inform safety personnel and Environmental Engineering Department.

Eliminate all sources of ignition.

Contain spill.

Ventilate area to avoid airborne concentration build-up. Unprotected employees should be excluded from the spill area during clean up.

Personnel working on clean-up of a spill must wear chemical safety goggles or face shield, rubber gloves, rubber apron or protective clothing, and rubber boots.

Use NIOSH/MSHA approved respirator for organic vapours (NIOSH TC-23-C).

Absorb spill with an inert absorbent such as clay or "speedi dri".

Shovel up the used absorbent and place into a closed labelled plastic or plastic lined drum.

WASTE DISPOSAL

Dispose of in accordance with Local, Provincial or Federal regulations as applicable.

HANDLING PROCEDURES AND EQUIPMENT

Exposure to vapours or mists of these products may cause irritation, therefore avoid generating mists or vapours of these materials.

Avoid prolonged or repeated skin contact.

Avoid breathing mists or vapours.

Do not smoke while using these products.

Employees who handle these materials must wash their hands with soap and water thoroughly before eating, smoking, or using toilet facilities.

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STORAGE REQUIREMENTS

Store in a cool, dry, well ventilated area, away from sources of heat and ignition.

Store away from strong oxidizing agents (eg. fluorine, chlorine, and concentrated sulphuric acid).

Store away from strong acids.

Insure that the containers are tightly closed.

Protect containers from physical damage.

Store only in labelled containers.

Keep from freezing.

Do not use empty containers for any other purpose.

COMMENTS

SECTION 9 - PREPARATION INFORMATION

PREPARED BY:

GENERAL MOTORS OF CANADA INDUSTRIAL HYGIENE

PHONE NUMBER

(905) 644-6013

DATE

06-15-06