



MATERIAL SAFETY DATA SHEET

Tox No. : 149426

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Part Type and Number	Part name
Ford - U.S. F5FZ-19549-CC	PREMIUM ENGINE COOLANT (1 GAL)

This material has not been identified against a material Specification.

----- CHEMICAL AND PHYSICAL PROPERTIES -----

Appearance :	Physical State	LIQUID
	Form	-
	Color	GREEN
Specific Gravity (Relative Density)		1.13
Boiling Point		+197.778 C (388 F)
Flash Point		+117.778 C (+244 F) (CLOSED CUP - NOT SPECIFIED)
pH full strength :		11
pH diluted		-
Odor		MILD
Odor Threshold		-
Viscosity		20 CST at 40C
Vapor Density		2.1 (AIR = 1)
Vapor Pressure		<0.1 mmHg at 20C
Evaporation Rate		-
Melting Point		Not Determined
Freezing Point		Not Determined
Explosion Properties :	UEL	Not Determined
	LEL	Not Determined
Auto-ignition Temperature		-
Solubility		LOW SOLUBILITY in Water
Partition Coefficient		-

----- HAZARDOUS AND OTHER DISCLOSED INGREDIENTS -----

Percent Range	Exposure Limits - TWA ACGIH/OSHA (where est.)	CAS number	Chemical Name
95	C 50/C 50 Vapor ppm	107-21-1	ETHYLENE GLYCOL
3	1(S3)/1(S3) mg/m3	7664-38-2	PHOSPHORIC ACID
0.1-<1	Not Regulated	7558-79-4	DISODIUM PHOSPHATE

Exposure Limit Abbreviations

TWA-Time Weighted Average C-Ceiling
 S-Short Term Exposure Sk-Skin
 Sol-Soluble Compounds Fu-Fumes
 Insol=Insoluble Compounds Du-Dust I-IARC Resp=Respirable

----- REGULATORY INFORMATION -----

This product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.
 This product contains an ingredient(s) considered to be an environmental hazardous substance(s) by the State of New Jersey.
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----- SIGNAL WORD -----

WARNING

----- HEALTH HAZARD INFORMATION -----

--(A)----- HAZARDS -----

This product is harmful if swallowed.
This product may be fatal if it is swallowed.
Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.
This product may cause irritation to the eyes, respiratory system, and skin.
Aspiration hazard if swallowed - can enter lungs and cause damage. Can cause kidney damage if swallowed. Can cause liver damage if swallowed based on animal data. Contains ethylene glycol which may cause birth defects based on animal data.

--(B)----- TARGET ORGANS AND MEDICAL CONDITIONS -----

Overexposure to some hazardous ingredients in this product has been found to affect certain body organs and systems in experimental animals and/or humans. These include:
Central Nervous System
Kidney
Liver
Skin, Eyes, and Respiratory System

--(C)----- ACUTE TOXICITY INFORMATION -----

Based on the composition of the product identified by the supplier, selected portions of the acute toxicity information from RTECS are as follows:

107-21-1 ETHYLENE GLYCOL
Oral, adult rat, LD50 = 4700 mg/kg
Skin, adult rabbit, LD50 = 9530 mg/kg
7664-38-2 PHOSPHORIC ACID
Oral, adult rat, LD50 = 1530 mg/kg
Skin, adult rabbit, LD50 = 2740 mg/kg
6834-92-0 SODIUM METASILICATE
Oral, adult rat, LD50 = 1153 mg/kg
7558-79-4 DISODIUM PHOSPHATE
Oral, adult rat, LD50 = 17 gm/kg
7631-99-4 SODIUM NITRATE
Oral, adult rat, LD50 = 3236 mg/kg
3734-33-6 BITREX
Oral, adult rat, LD50 = 584 mg/kg

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----- FIRE AND EXPLOSION INFORMATION -----

This product is combustible at high temperatures.
EXTINGUISHER INFORMATION: Dry chemical, foam, carbon dioxide, water fog.
Use water to cool fire-exposed containers and to protect personnel.
Wear self-contained breathing apparatus.
Water or foam may cause frothing if the product is heated above
93 degrees C (200 degrees F).

----- REACTIVITY DATA -----

This is a stable material.
Hazardous polymerization will not occur.

Upon decomposition, this product emits carbon monoxide, carbon dioxide,
and/or low molecular weight hydrocarbons.

----- PREVENTIVE MEASURES -----

-(A)----- SAFE HANDLING AND STORAGE -----

Do not breathe gas/fumes/vapor/spray.
Avoid getting this material into contact with your skin and eyes.
Store this product in a cool, dry, well-ventilated place.
Use this product with adequate ventilation.
Keep this product from heat, sparks, or open flame.

-(B)----- PROTECTIVE MEASURES -----

Use impervious gloves.
Use general ventilation and use local exhaust, where possible, in confined or
enclosed spaces.
Wear safety glasses with side shields; chemical goggles (if splashing is
possible).
The use of natural rubber gloves is recommended.
Use supplied-air respiratory equipment as required.

-(C)----- SPILLS, LEAKS AND DISPOSAL -----

Wear appropriate protective equipment and clothing during clean-up.
Ventilate the contaminated area.
Absorb the spilled material with an inert absorbent (nonflammable) material.
Avoid inhalation of vapor, fumes, dust and/or mist from the spilled material.
Do not allow the spilled product to enter public drainage system or open water
courses.
Dispose of waste material according to Local, State, Federal, and
Provincial Environmental Regulation.

Do not get this material in your eyes, on your skin, or on your clothing.



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----- NOTES TO PHYSICIANS -----

If the affected person is not breathing, apply artificial respiration.
 If the affected person's breathing is difficult, give oxygen.
 This material, if aspirated into the lungs, may cause chemical pneumonitis;
 treat the affected person appropriately.

----- U.S. DEPARTMENT OF TRANSPORTATION INFORMATION -----

-(A)----- *** US DOT Classification *** -----

This product is not regulated as a hazardous material for transportation
 under 49CFR.

-(B)----- Reportable Quantities -----

The chemical name(s) appearing below under "NAME" must appear as part of
 the shipping name IF the amount being shipped in each container exceeds the
 quantity shown under "RQ" below. The letters "RQ" must also appear as part
 of the shipping name, in the form:

RQ, shipping name, chemical name

-----CAS-- RQ(lbs) -NAME-----

100-41-4	>100000	ETHYLBENZENE
1330-20-7	>100000	XYLENE (ALL ISOMERS)
7439-92-1	>100000	LEAD
7439-97-6	>100000	MERCURY
7440-38-2	>100000	ARSENIC
7440-47-3	>100000	CHROMIUM

----- CANADIAN TRANSPORTATION INFORMATION -----

-(A)----- Transportation of Dangerous Goods Classification -----

This product is not regulated as a dangerous good for transportation under
 TDGR.

-(B)----- Regulated Limits -----

The chemical name(s) appearing below under "NAME" must appear as part of the
 shipping name IF the amount being shipped in each container exceeds the
 quantity shown under "RL" below. 9.2 must appear as part of the shipping name,
 in the following forms:

If 9.2 is the primary hazard:

shipping name, chemical name, 9.2

If 9.2 is the subsidiary hazard:

shipping name, chemical name, hazard class (9.2)

--- CAS --- RL(kgs) -- NAME -----

100-41-4	>100000	ETHYLBENZENE
1330-20-7	>100000	XYLENE (ALL ISOMERS)
7439-97-6	>100000	MERCURY
7440-38-2	>100000	ARSENIC

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----- PREPARATION INFORMATION -----

Health and safety information has been evaluated by:

Environmental & Occupational Toxicology, Occupational Health & Safety,
Ford Motor Company
World Headquarters, Room 226
The American Road
Dearborn, MI 48121

For 24 hour emergency information dial 1-800-959-3673.

This is the last page of this MSDS.

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