



## MATERIAL SAFETY DATA SHEET

PRODUCT

**FUEL RIGHT® THAW**  
(Fuel Anti-Freeze & Deicer)

Last Reaffirmed on 12/12/2012

*Emergency Telephone Number:* CHEMTREC (800) 424-9300

### SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME: Fuel Right® Thaw Fuel Anti-Freeze and Deicer

DESCRIPTION: A glycol ether.

NFPA 704M/HMIS RATING: 1/1 HEALTH 2/2 FLAMMABILITY 0/0 REACTIVITY 0 OTHER  
0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

### SECTION 2 HAZARDOUS INGREDIENTS

INGREDIENTS	CAS #	APPROX. %
dipropylene glycol monomethyl ether	34590-94-8	>80%

### SECTION 3 PHYSICAL AND CHEMICAL PROPERTIES

COLOR: Clear, colorless	FORM: Liquid	ODOR: Slight ether
DENSITY: 7.9-8.0 lbs./gal		PERCENT VOLATILE: 100.
SPECIFIC GRAVITY: 0.95 @77° F (25° C)		SOLUBILITY IN WATER: Soluble
POUR POINT: Less than -100° F		BOILING POINT: 363° F (184° C)
FLASH POINT: 175° F (TCC)		EXAPORATION RATE: 0.03 (Butyl acetate = 1)

NOTE: These physical properties are typical values for this product.

### SECTION 4 FIRE AND EXPLOSION HAZARD DATA

In case of fire, keep unnecessary people away; isolate hazard area and deny unnecessary entry.

Douse fires with water, foam, or dry chemical extinguishers.

When using water spray, boil over may occur when the product temperature reaches the boiling point of water (tank type scenarios – not spills.)

Wear positive-pressure, self-contained breathing apparatus and full protective equipment.

### SECTION 5 REACTIVITY DATA

STABILITY: (CONDITIONS TO AVOID) Stable under normal storage conditions.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may produce carbon dioxide, carbon monoxide, and water.



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### SECTION 6 ENVIRONMENTAL AND

### DISPOSAL INFORMATION

**SPILLS/LEAKS:** Keep out of sewers, storm drains, and streams. Soak up with suitable, non-reactive absorbant material. Collect with rubber or plastic shovel and place in suitable containers for disposal.

**DISPOSAL:** If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recover Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D. Can be incinerated in accordance with local, state and federal regulations.

### SECTION 7 HEALTH HAZARD INFORMATION

**PRIMARY ROUTE(S) OF EXPOSURE:** Eye, Skin, and Ingestion

**EYE CONTACT:** May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.

**SKIN CONTACT:** Prolonged exposure not likely to cause significant skin irritation.

**SKIN ABSORPTION:** The LD50 for skin absorption in rabbits is greater than 20 ml/kg. Prolonged skin contact with very large amounts of Thaw may cause drowsiness.

**INGESTION:** Single dose oral toxicity is low. The oral LD50 for rats is 5.4 ml/kg. Small amounts swallowed incidental to normal handling are not likely to cause injury. Swallowing large amounts may cause injury.

**INHALATION:** Signs and symptoms of excessive exposure may be anesthetic or narcotic effects.

**SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:** Observations in animals include minor liver or kidney effects. Signs and symptoms of excessive exposure may be anesthetic or narcotic effects.

**TERATOLOGY (BIRTH DEFECTS):** Birth defects are unlikely. Exposures having no adverse effects on the mother should have No effect on the fetus.

**MUTAGENICITY (EFFECTS ON GENETIC MATERIAL):** Results of *in vitro* (test tube) mutagenicity tests have been negative.

### SECTION 8 FIRST AID INFORMATION

**EYES:** Flush eyes with plenty of water.

**SKIN:** Wash off in flowing water or shower.

**INGESTION:** Induce vomiting and consult a doctor if large amounts are ingested.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be Administered by qualified personnel. Call a physician and transport to a medical facility.

**NOTE TO PHYSICIAN:** No specific antidote. Treatment based on judgment of the physician in response to reactions of The patient.



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### SECTION 9 TRANSPORTATION INFORMATION

PROPER SHIPPING NAME/HAZARD CODE: In U.S. is regulated only when shipped in containers exceeding 119 US gallons capacity. Shipping papers for non-bulk containers should read:

NA 1993 Fuel Additive - Not Regulated (Reclassified per CFR 49 par. 173.150)  
NMFC No. 155150

For bulk containers within U.S. is a Combustible Liquid n.o.s. NMFC No. 155250-1 (Fuel Additive, Combustible)

For shipment of any quantity outside the U.S. is UN1993 Flammable Liquid, Class 3, PG III (Contains DPM glycol ether and heavy aromatic naphtha.)

### SECTION 10 REGULATORY INFORMATION

FEDERAL REGULATIONS:

OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

Based on our hazard evaluation, the ingredients in this product are hazardous for the following reasons:

dipropylene glycol monmethyl ether – combustible

CERCLA/SUPERFUND, 40 CFR 117, 302:

Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III):

SECTION 302 – EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):

This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 AND 312 – MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370):

Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories:

- Immediate (acute) health hazard
- Sudden release of pressure hazard
- Delayed (chronic) health hazard
- Reactive hazard
- XX Fire hazard

SECTION 313 – LIST OF TOXIC CHEMICALS (40 CFR 372):

This product does not contain ingredients on the List of Toxic Chemicals.

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The chemical ingredients in this product are on the 8(b) Inventory List (40 CFR 710).

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D:

Consult Section 6 for RCRA classification.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 (formerly Sec. 307), 40 CFR 116 (formerly Sec. 311):



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None of the ingredients in this product is specifically listed.

CLEAN AIR ACT, Sec. 111 (40 CFR 60), Sec. 112 (40 CFR 61, 1990 Amendments), Sec. 611 (40 CFR 82, CLASS I and II Ozone Depleting Substances):

This product does not contain ingredients covered by the Clean Air Act.

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:

This product does not contain any chemicals which require warning under California Proposition 65.

MICHIGAN CRITICAL MATERIALS:

This product does not contain ingredients listed on the Michigan Critical Materials Register.

INTERNATIONAL REGULATIONS:

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is: B3

CANADIAN TDG INFORMATION: The Transportation of Dangerous Goods (TDG) for this product is: Not Regulated.

### **SECTION 11 USER'S RESPONSIBILITY**

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operation. Please call the phone numbers listed below for any further information.

PREPARED BY: Robert E. Tatnall, President, Fairville Products, Inc.