



# Material Safety Data Sheet

Issue Date: 19-NOV-2007  
Supersedes: 19-NOV-2007

## HOT STUFF

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### 1 Identification

**Identification of substance or preparation**  
HOT STUFF

**Product Application Area**  
Multifunctional diesel fuel additive

**Company/Undertaking Identification**  
GE Water & Process Technologies Canada  
3239 Dundas Street West  
Oakville, Ontario, L6M 4B2  
T 905-465-3030

**Emergency Telephone**  
(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300    Prepared on: 19-NOV-2007

### 2 Hazard(s) identification

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**EMERGENCY OVERVIEW**

May cause moderate irritation to the skin. Absorbed by the skin.  
May cause dermatitis. Severe irritant to the eyes. Vapors, gases, mists or aerosols may cause irritation to the upper respiratory tract. Prolonged exposure may cause dizziness and headache.

Odor: Slight Hydrocarbon; Appearance: Light Yellow To Amber, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide or foam--Avoid water if possible.

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**POTENTIAL HEALTH EFFECTS**

**ACUTE SKIN EFFECTS:**

Primary route of exposure; May cause moderate irritation to the skin. Absorbed by the skin. May cause dermatitis.

**ACUTE EYE EFFECTS:**

Severe irritant to the eyes.

**ACUTE RESPIRATORY EFFECTS:**

Primary route of exposure;Vapors, gases, mists or aerosols may

cause irritation to the upper respiratory tract. Prolonged exposure may cause dizziness and headache.

**INGESTION EFFECTS:**

May cause gastrointestinal irritation with possible nausea, vomiting, diarrhea, mental confusion, dizziness and lethargy. Small amounts aspirated during ingestion or vomiting may cause lung injury, possibly leading to death.

**TARGET ORGANS:**

Prolonged or repeated exposure may cause toxicity to the liver, kidney and blood, CNS depression and/or defatting-type dermatitis. Product or product component may increase risk of cancer.

**MEDICAL CONDITIONS AGGRAVATED:**

Not known.

**SYMPTOMS OF EXPOSURE:**

Excessive dermal exposure causes defatting and drying of skin. Excessive inhalation of vapors causes dizziness, headache and nausea.

### 3 Composition / information on ingredients

Information for specific product ingredients as required by the WHMIS Regulations is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

**HAZARDOUS INGREDIENTS:**

Cas#	Chemical Name	Range (w/w%)
91-20-3	NAPHTHALENE Irritant; absorbed by skin; sensitizer; possible human carcinogen (IARC=2B; NTP=anticipated); toxic to liver, kidney, and blood; causes nasal tumors in rats ORAL LD50-RAT: 2,200 MG/KG DERMAL LD50-RABBIT: > 2,000 MG/KG INHL. LC50-RAT: > 340 MG/M3/HR	5-10
100-41-4	ETHYLBENZENE Flammable liquid; Irritant (eyes, skin, and respiratory); possible human carcinogen (IARC=2B; NTP=anticipated); potential nervous system toxin ORAL LD50-RAT: 3,500 MG/KG DERMAL LD50-RABBIT: 15,400 MG/KG INHL. LC50: NO DATA.	0.1-1.0
64742-94-5	SOLVENT NAPHTHA, PETROLEUM, HEAVY AROMATIC Combustible liquid; irritant (eyes) ORAL LD50-RAT: 3,200 MG/KG DERMAL LD50-RABBIT: 1,800 MG/KG INHL. LC50-RAT: > 580 PPM/4HR	60-100
64742-95-6	LIGHT AROMATIC NAPHTHA Combustible; irritant ORAL LD50-RAT: >5,600 MG/KG DERMAL LD50-RAT: >4,000 MG/KG	5-10

	INHL. LC50-RAT: >10,200 MG/M3/4HR	
95-63-6	1,2,4-TRIMETHYLBENZENE Flammable; irritant (respiratory); CNS depressant ORAL LD50-RAT: 5,000 MG/KG DERMAL LD50: NO DATA. INHL. LC50-RAT: 18 GM/M3/4HR	5-10
34590-94-8	DIPROPYLENE GLYCOL METHYL ETHER Combustible ORAL LD50-RAT: 5,135 MG/KG DERMAL LD50-RABBIT: 9,500 MG/KG INHL. LC50-RAT: > 50 MG/L/4HR	3-7
108-67-8	BENZENE, 1,3,5-TRIMETHYL-; MESITYLENE Combustible liquid; CNS depressant; may affect blood system ORAL LD50: NO DATA. DERMAL LD50: NO DATA. INHL. LC50-RAT: 24,000 MG/M3/4HR	1-5

## 4 First-aid measures

### SKIN CONTACT:

URGENT! Wash thoroughly with soap and water. Remove contaminated clothing. Get immediate medical attention. Thoroughly wash clothing before reuse.

### EYE CONTACT:

Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

### INHALATION:

Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get immediate medical attention.

### INGESTION:

Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 2-8 fluid ounces (60-240 mL) of milk or water.

### NOTES TO PHYSICIANS:

This product contains a hydrocarbon solvent. Aspiration into the lungs will result in chemical pneumonia and may be fatal.

## 5 Fire-fighting measures

### FIRE FIGHTING INSTRUCTIONS:

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

### EXTINGUISHING MEDIA:

dry chemical, carbon dioxide or foam--Avoid water if possible.

### HAZARDOUS DECOMPOSITION PRODUCTS:

oxides of carbon and nitrogen

### FLASH POINT:

~ 118F ~ 48C P-M(CC)

## 6 Accidental release measures

**PROTECTION AND SPILL CONTAINMENT:**

Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Remove ignition sources. Flush area with water. Spread sand/grit.

**DISPOSAL INSTRUCTIONS:**

The waste characteristics of the absorbed material, or any contaminated soil, should be determined in accordance with provincial regulations. Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement or discharged under provincial regulations. Incinerate or land dispose in an approved landfill.

## 7 Handling and storage

**HANDLING:**

Combustible. Do not use around sparks or flames. Bond containers during filling or discharge when performed at temperatures at or above the product flash point.

**STORAGE:**

Keep containers closed when not in use. Store in cool ventilated location. Store away from oxidizers.

## 8 Exposure controls / personal protection

**EXPOSURE LIMITS**

Consult local authorities for acceptable provincial values.

**CHEMICAL NAME**

## NAPHTHALENE

PEL (OSHA): 10 PPM  
TLV (ACGIH): 10 PPM

## ETHYLBENZENE

PEL (OSHA): 100 PPM(125PPM-STEL)  
TLV (ACGIH): 100 PPM(125PPM-STEL)

## SOLVENT NAPHTHA, PETROLEUM, HEAVY AROMATIC

PEL (OSHA): NOT DETERMINED  
TLV (ACGIH): NOT DETERMINED  
MISC: Note- manufacturer's recommended exposure limit: 100 ppm.

## LIGHT AROMATIC NAPHTHA

PEL (OSHA): NOT DETERMINED  
TLV (ACGIH): NOT DETERMINED  
MISC: Note- manufacturer's recommended exposure limit: 100 ppm.

## 1,2,4-TRIMETHYLBENZENE

PEL (OSHA): NOT DETERMINED  
TLV (ACGIH): 25 PPM(TRIMETHYLBENZENE MIXED ISOMERS)

## DIPROPYLENE GLYCOL METHYL ETHER

PEL (OSHA): 100 PPM-SKIN(150PPM-STEL)  
TLV (ACGIH): 100 PPM-SKIN(150PPM-STEL)

## BENZENE, 1,3,5-TRIMETHYL-; MESITYLENE

PEL (OSHA): NOT DETERMINED  
TLV (ACGIH): NOT DETERMINED

## 8) EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

### ENGINEERING CONTROLS:

Adequate ventilation to maintain air contaminants below exposure limits.

### RESPIRATORY PROTECTION:

If air-purifying respirator use is appropriate, use organic vapor cartridges and any of the following particulate respirators: R95, R99, R100, P95, P99 or P100.

### SKIN PROTECTION:

gauntlet-type neoprene gloves, chemical resistant apron-- Wash off after each use. Replace as necessary.

### EYE PROTECTION:

splash proof chemical goggles, face shield

## 9 Physical and chemical properties

Density	7.4 lbs/ga	Vapor Pressure (mmHG)	< 5.0
Freeze Point (F)	< < 0	Vapor Density (air=1)	> 1.00
Freeze Point (C)	< -18		
Viscosity(cps 70F,21C)	12	% Solubility (water)	< 0.0
Odor	Slight Hydrocarbon		
Appearance	Light Yellow To Amber		
Physical State	Liquid		
Flash Point	P-M(CC)	~ 118F	~ 47C
pH 5% Extract (approx.)	4.6		
Evaporation Rate (Ether=1)	< 1.00		
Percent VOC:	97.0		

NA = not applicable      ND = not determined

## 10 Stability and reactivity

### STABILITY:

Stable under normal storage conditions.

### HAZARDOUS POLYMERIZATION:

Will not occur.

### INCOMPATIBILITIES:

May react with strong oxidizers.

### DECOMPOSITION PRODUCTS:

oxides of carbon and nitrogen

### INTERNAL PUMPOUT/CLEANOUT CATEGORIES:

"B"

## 11 Toxicological information

No Data Available.

## 12 Ecological information

**AQUATIC TOXICOLOGY**

No Data Available.

**BIODEGRADATION**

No Data Available.

## 13 Disposal considerations

Incinerate or bury in approved landfill. Please be advised that there may be additional local or provincial requirements relating to the disposal of waste. Consult provincial and local regulations regarding the proper disposal of this material.

## 14 Transport information

**Transportation of Dangerous Goods:**

FLAMMABLE LIQUID,  
N.O.S. (TRIMETHYLBENZENE, NAPHTHALENE)  
3, UN 1993, PG III

DOT EMERGENCY RESPONSE GUIDE #: 128

## 15 Regulatory information

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**CEPA:**

All components of this product comply with substance notification requirements under CEPA.

**WHMIS CLASSIFICATION:**

B3      D2A      D2B

## 16 Other information

NFPA/HMIS		CODE TRANSLATION
Health	2	Moderate Hazard
Fire	2	Moderate Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	D	Goggles, Face Shield, Gloves, Apron

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

**CHANGE LOG**

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
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MSDS status:	28-NOV-2006		** NEW **
	19-NOV-2007	4, 5, 8, 10	28-NOV-2006