



Material Safety Data Sheet

Issue Date: 14-APR-2008
Supersedes: 19-NOV-2007

HOT STUFF

1 Identification of Product and Company

Identification of substance or preparation
HOT STUFF

Product Application Area
Multifunctional diesel fuel additive

Company/Undertaking Identification
GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355-3300, F 215 953 5524

Emergency Telephone
(800) 877-1940

Prepared by Product Stewardship Group: 215 355-3300

2 Composition / Information On Ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD 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 | 5-10 |
| 100-41-4 | ETHYLBENZENE Flammable liquid; Irritant (eyes, skin, and respiratory); possible human carcinogen (IARC=2B; NTP=anticipated); potential nervous system toxin | 0.1-1.0 |
| 64742-94-5 | SOLVENT NAPHTHA, PETROLEUM, HEAVY AROMATIC Combustible liquid; irritant (eyes) | 60-100 |
| 64742-95-6 | LIGHT AROMATIC NAPHTHA Combustible; irritant | 5-10 |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE Flammable; irritant (respiratory); CNS depressant | 5-10 |

| | | |
|------------|---|-----|
| 34590-94-8 | DIPROPYLENE GLYCOL METHYL ETHER Combustible | 3-7 |
| 108-67-8 | BENZENE, 1,3,5-TRIMETHYL-; MESITYLENE Combustible liquid; CNS depressant; may affect blood system | 1-5 |

3 Hazards Identification

EMERGENCY OVERVIEW

WARNING

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.

DOT hazard: Combustible or flammable based on RQ
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.

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.

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)

MISCELLANEOUS:

Combustible or flammable based on RQ
UN 1993;Emergency Response Guide #128

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:

Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement, a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7 Handling & 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

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.

PERSONAL PROTECTIVE EQUIPMENT:

Use protective equipment in accordance with 29CFR 1910 Subpart I

RESPIRATORY PROTECTION:

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.

USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.

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 & 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 & 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

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
D001=Ignitable; D018=Benzene.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14 Transport Information

DOT HAZARD: Combustible or flammable based on RQ
PROPER SHIPPING NAME: FLAMMABLE LIQUID,
N.O.S.(TRIMETHYLBENZENE, NAPHTHALENE)
3, UN 1993, PG III, (NAPHTHALENE) RQ
DOT EMERGENCY RESPONSE GUIDE #: 128
Note: Some containers may be DOT exempt, please check BOL for exact container classification

15 Regulatory Information

TSCA:

All components of this product are included on or are in compliance with the U.S. TSCA regulations.

CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):

217 gallons due to NAPHTHALENE;1,743 gallons due to XYLENE;
Treat as oil spill

SARA SECTION 312 HAZARD CLASS:

Immediate(acute);Delayed(Chronic);Fire

SARA SECTION 313 CHEMICALS:

| CAS# | CHEMICAL NAME | RANGE |
|-----------|------------------------|-----------|
| 91-20-3 | NAPHTHALENE | 6.0-10.0% |
| 100-41-4 | ETHYLBENZENE | 0.1-1.0% |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 2.0-5.0% |
| 1330-20-7 | XYLENE | 0.1-1.0% |

CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC

ENFORCEMENT ACT (PROPOSITION 65):

This product contains one or more ingredients known to the state of California to cause cancer and reproductive toxicity.

MICHIGAN REGULATORY INFORMATION

| CAS# | CHEMICAL NAME |
|-----------|---------------|
| 91-20-3 | NAPHTHALENE |
| 1330-20-7 | XYLENE |

16 Other Information

NFPA/HMIS

Health
Fire
Reactivity
Special
(1) Protective Equipment

2
2
0
NONE
D

CODE TRANSLATION

Moderate Hazard
Moderate Hazard
Minimal Hazard
No special Hazard
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 |
|--------------|-------------------|-----------------------|-------------|
| | ----- | ----- | ----- |
| MSDS status: | 28-NOV-2006 | | ** NEW ** |
| | 19-NOV-2007 | 4,5,8,10,15 | 28-NOV-2006 |
| | 14-APR-2008 | 13 | 19-NOV-2007 |