



**GE Betz**

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Material Safety Data Sheet

Issue Date: 22-MAR-2006

**EMERGENCY TELEPHONE (Health/Accident): (800) 877-1940**

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## 1 PRODUCT IDENTIFICATION

PRODUCT NAME:

**OTR 9000 ULS**

PRODUCT APPLICATION AREA:

**MULTIFUNCTIONAL DIESEL FUEL ADDITIVE**

## 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
100-41-4	ETHYLBENZENE Flammable liquid; Irritant (eyes, skin, and respiratory); possible human carcinogen (IARC=2B; NTP=anticipated); potential nervous system toxin
91-20-3	NAPHTHALENE Irritant; absorbed by skin; sensitizer; toxic to liver, kidney, and blood; causes nasal tumors in rats
34590-94-8	DIPROPYLENE GLYCOL METHYL ETHER Combustible
64742-94-5	SOLVENT NAPHTHA, PETROLEUM, HEAVY AROMATIC Combustible liquid; irritant (eyes)
64742-95-6	LIGHT AROMATIC NAPHTHA Combustible; irritant
95-63-6	1,2,4-TRIMETHYLBENZENE Flammable; irritant (respiratory); CNS depressant

## 3 HAZARDS IDENTIFICATION

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**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  
Emergency Response Guide #128  
Odor: Slight Hydrocarbon; Appearance: 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 exposures may cause CNS depression, defatting-type dermatitis, and/or skin sensitization.

**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 3-4 glasses 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:**

Thermal decomposition (destructive fires) yields elemental oxides.

**FLASH POINT:**

~ 130F ~ 54C P-M(CC)

**MISCELLANEOUS:**

Combustible or flammable based on RQ  
UN1993;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**

**ETHYLBENZENE**

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

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

NAPHTHALENE

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

DIPROPYLENE GLYCOL METHYL ETHER

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

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 a respirator with organic vapor cartridges and dust/mist prefilters.

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	7.6 lbs/ga	Vapor Pressure (mmHG)	< 5.0
Freeze Point (F)	< -25	Vapor Density (air=1)	> 1.00
Freeze Point (C)	< -32		
Viscosity(cps 70F,21C)	200	% Solubility (water)	< 0.0

Odor	Slight Hydrocarbon
Appearance	Amber
Physical State	Liquid
Flash Point	P-M(CC) ~ 130F ~ 54C
pH (approx.)	ND
Evaporation Rate (Ether=1)	< 1.00

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:

Thermal decomposition (destructive fires) yields elemental oxides.

### 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.

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  
UN / NA NUMBER: UN1993  
DOT EMERGENCY RESPONSE GUIDE #: 128

## 15 REGULATORY INFORMATION

### TSCA:

All components of this product are listed in the TSCA inventory.

### CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):

1,508 gallons due to XYLENE;5,435 gallons due to NAPHTHALENE;  
Treat as oil spill

### SARA SECTION 312 HAZARD CLASS:

Immediate (acute);Delayed (Chronic);Fire

### SARA SECTION 313 CHEMICALS:

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

### CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC  
ENFORCEMENT ACT (PROPOSITION 65) CHEMICALS PRESENT:

This product contains these chemicals known to the state of  
California to cause cancer and/or reproductive toxicity:

CAS#	CHEMICAL NAME
100-41-4	ETHYLBENZENE
91-20-3	NAPHTHALENE

MICHIGAN REGULATORY INFORMATION

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

## 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: 22-MAR-2006		** NEW **