



# Material Safety Data Sheet

Issue Date: 06-OCT-2010  
Supersedes:

PETROFLO 21Y644D

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## 1 Identification

**Identification of substance or preparation**  
PETROFLO 21Y644D

**Product Application Area**  
Filming amine

**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: T 215-355-3300    Prepared on: 06-OCT-2010

## 2 Hazard(s) identification

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**EMERGENCY OVERVIEW**

**DANGER**

Corrosive to skin. Potential skin sensitizer. May be absorbed.  
Corrosive to the eyes. May cause irritation to the upper  
respiratory tract. Exposure may cause dizziness, headache, CNS  
depression and chemical pneumonitis.

DOT hazard: Corrosive to skin  
Odor: Hydrocarbon; Appearance: Amber To Brown, 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--Water spray should be used  
only to cool fire-exposed containers and disperse vapors.

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**POTENTIAL HEALTH EFFECTS**

**ACUTE SKIN EFFECTS:**

Primary route of exposure; Corrosive to skin. Potential skin  
sensitizer. May be absorbed.

**ACUTE EYE EFFECTS:**

Corrosive to the eyes.

**ACUTE RESPIRATORY EFFECTS:**

Primary route of exposure; May cause irritation to the upper respiratory tract. Exposure may cause dizziness, headache, CNS depression and chemical pneumonitis.

**INGESTION EFFECTS:**

May cause severe irritation or burning of mouth, throat, and gastrointestinal tract with severe chest and abdominal pain, nausea, vomiting, diarrhea, lethargy and collapse. Possible death when ingested in large doses or aspirated.

**TARGET ORGANS:**

Prolonged or repeated exposures may cause tissue necrosis. Prolonged or repeated exposures may cause CNS depression and/or defatting-type dermatitis. Product or product component may increase the risk of cancer.

**MEDICAL CONDITIONS AGGRAVATED:**

Asthma, allergies, skin disorders, and chronic respiratory disease.

**SYMPTOMS OF EXPOSURE:**

Causes severe irritation, burns or tissue ulceration with subsequent scarring.

### 3 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
64742-94-5	SOLVENT NAPHTHA, PETROLEUM, HEAVY AROMATIC Combustible liquid; irritant (eyes)	40-70
68911-83-1	FATTY TETRAHYDOPYRIMIDINE Toxic (by inhalation); irritant (eyes)	15-40
95-63-6	1,2,4-TRIMETHYLBENZENE Flammable; irritant (respiratory); CNS depressant	7-13
109-55-7	DIMETHYLAMINOPROPYLAMINE (DMAPA) Flammable; corrosive (eyes and skin); toxic (by ingestion and skin absorption); irritant (inhalation); sensitizer (skin)	7-13
526-73-8	1,2,3-TRIMETHYLBENZENE Combustible liquid; CNS depressant; may affect blood system	3-7

Combustible liquid; CNS depressant; may affect blood system

## 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:

URGENT! Immediately flush eyes with water for 30 minutes while removing contact lenses. Hold eyelids apart. 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. Rinse mouth with plenty of water. Dilute contents of stomach using 4-10 fluid ounces (120-300 mL) of milk or water.

### NOTES TO PHYSICIANS:

Material is corrosive. It may not be advisable to induce vomiting. Possible mucosal damage may contraindicate the use of gastric lavage. 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--Water spray should be used only to cool fire-exposed containers and disperse vapors.

### HAZARDOUS DECOMPOSITION PRODUCTS:

oxides of carbon and nitrogen

### FLASH POINT:

142F 61C P-M(CC)

### MISCELLANEOUS:

Corrosive to skin

UN 3267;Emergency Response Guide #153

## 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 and storage

### HANDLING:

Combustible. Bond and ground containers during filling or discharge. Do not use near sparks, flames or sources of ignition.

### STORAGE:

Keep containers closed when not in use. Store in cool ventilated location. Store away from oxidizers. Keep away from flames or sparks. Avoid atmospheric exposure.

## 8 Exposure controls / personal protection

### EXPOSURE LIMITS

#### CHEMICAL NAME

##### NAPHTHALENE

PEL (OSHA): 10 PPM

TLV (ACGIH): 10 PPM

##### SOLVENT NAPHTHA, PETROLEUM, HEAVY AROMATIC

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): NOT DETERMINED

MISC: Note- manufacturer's recommended exposure limit: 100 ppm.

##### FATTY TETRAHYDROPYRIMIDINE

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): NOT DETERMINED

##### 1,2,4-TRIMETHYLBENZENE

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): 25 PPM (TRIMETHYLBENZENE MIXED ISOMERS)

##### DIMETHYLAMINOPROPYLAMINE (DMAPA)

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): NOT DETERMINED

##### 1,2,3-TRIMETHYLBENZENE

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): TWA = 25 PPM

##### 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 a respirator with organic vapor cartridges.

**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/gal	Vapor Pressure (mmHG)	< 5.0
Freeze Point (F)	< -30	Vapor Density (air=1)	> 1.00
Freeze Point (C)	< -34		
Viscosity(cps 70F,21C)	14	% Solubility (water)	< 0.0

Odor	Hydrocarbon
Appearance	Amber To Brown
Physical State	Liquid
Flash Point	P-M(CC) 142F 61C
pH 5% Extract (approx.)	11.4
Evaporation Rate (Ether=1)	< 1.00
Percent VOC:	75.0

NA = not applicable      ND = not determined

## 10 Stability and reactivity

**CHEMICAL STABILITY:**

Stable under normal storage conditions.

**POSSIBILITY OF HAZARDOUS REACTIONS:**

Friction, heat or other sources of ignition may cause a reaction releasing heat and toxic fumes. Contact with oxidizers may cause fire.

**INCOMPATIBILITIES:**

May react with strong oxidizers.

**DECOMPOSITION PRODUCTS:**

oxides of carbon and nitrogen

## 11 Toxicological information

Oral LD50 RAT: 2450 mg/kg

NOTE - Estimated value

## 12 Ecological information

**AQUATIC TOXICOLOGY**

Daphnia magna 48 Hour Acute Toxicity (Estimated)

LC50= 3.2; No Effect Level= 1.5 mg/L

Fathead Minnow 96 Hour Acute Toxicity (Estimated)

LC50= 1.9 mg/L

**BIODEGRADATION**

No Data Available.

## 13 Disposal considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :  
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

Transportation Hazard: Corrosive to skin  
DOT: CORROSIVE LIQUID, BASIC, ORGANIC,  
N.O.S.(DIMETHYLAMINOPROPYLAMINE)  
8, UN 3267, PG III, RQ  
DOT EMERGENCY RESPONSE GUIDE #: 153  
Note: Some containers may be DOT exempt, please check BOL for exact container classification  
IATA: CORROSIVE LIQUID, BASIC, ORGANIC,  
N.O.S.(DIMETHYLAMINOPROPYLAMINE)  
8, UN 3267, PG III  
IMDG: CORROSIVE LIQUID, BASIC, ORGANIC,  
N.O.S.(DIMETHYLAMINOPROPYLAMINE)  
8, UN 3267, PG III

## 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):

201 gallons due to NAPHTHALENE;2,212 gallons due to BENZENE;  
Treat as oil spill

### NSF Registered and/or meets USDA (according to 1998 Guidelines):

Registration number: Not Registered

### 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%
95-63-6	1,2,4-TRIMETHYLBENZENE	6.0-10.0%

### 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

## 16 Other information

**HMIS vII****CODE TRANSLATION**

Health	3	Serious Hazard
Fire	2	Moderate Hazard
Reactivity	0	Minimal Hazard
Special	CORR	DOT corrosive
(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:	06-OCT-2010		** NEW **