



# SAFETY DATA SHEET

## PETROFLO\* 23Y957

### 1. Product and Company Identification

**Material name** PETROFLO 23Y957  
**Version #** 3.0  
**Revision date** 19/11/2013  
**Supersedes date** 19/11/2013  
**Chemical description** Polymer solution  
**CAS #** Mixture  
**Product application** Antifoam

#### Company/undertaking identification

GE Betz, Inc.  
 4636 Somerton Road  
 Trevoise, PA 19053  
 T 215 355 3300, F 215 953 5524

#### Emergency telephone

(800) 877 1940

### 2. Hazards Identification

**Emergency overview** CAUTION

May cause slight irritation to the skin. May cause moderate irritation to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.

#### Potential health effects

**Eyes** May cause moderate irritation to the eyes.  
**Skin** Primary route of exposure May cause slight irritation to the skin.  
**Inhalation** Vapors, gases, mists or aerosols may cause irritation to the upper respiratory tract.  
**Ingestion** May cause slight gastrointestinal irritation with possible nausea, vomiting, diarrhea, incoordination, mental confusion, dizziness and lethargy.

**Target organs** No evidence of potential chronic effects.

**Signs and symptoms** May cause redness or itching of skin.

**Medical conditions aggravated by exposure** None known.

### 3. Composition / Information on Ingredients

Non-hazardous components	CAS #
Alkylene oxide block polymer	9003-11-6

**Composition comments** 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.

## 4. First Aid Measures

### First aid procedures

<b>Eye contact</b>	Remove contact lenses. Keep eyelids apart. Flush immediately with plenty of running water. Seek medical attention.
<b>Skin contact</b>	Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists, seek medical advice.
<b>Inhalation</b>	If nasal, throat or lung irritation develops. Remove to fresh air. Seek medical attention.
<b>Ingestion</b>	Do not feed anything by mouth to an unconscious or convulsive victim. Rinse mouth with water. Do NOT induce vomiting! Immediately contact a physician. If the victim is fully conscious dilute contents of stomach using 3-4 glasses of water.

**Notes to physician** No other instruction than the ones already informed.

## 5. Fire Fighting Measures

### Extinguishing media

**Suitable extinguishing media** Carbon dioxide, dry chemicals, foam, water spray (fog).

**Unsuitable extinguishing media** None.

### Protection of firefighters

**Specific hazards arising from the chemical** Oxides of carbon evolved in fire.

**Protective equipment and precautions for firefighters** Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

**Fire fighting equipment/instructions** Use standard firefighting procedures and consider the hazards of other involved materials.

**Hazardous combustion products** Oxides of carbon

## 6. Accidental Release Measures

**Personal precautions** Protective clothing.

**Environmental precautions** Prevent from entering sewers or the immediate environment.  
Accidental release of large quantities into the aquatic environment may harm aquatic organisms.

**Methods for cleaning up** Ventilate area, use specified protective equipment.  
Absorb onto inert material and dispose of according to Controlled Waste Regulations.  
Remove small spills with plenty of water.  
Wet area may be slippery. Spread sand/grit. Water contaminated with this product may be sent to a sanitary sewer treatment facility, or a permitted waste treatment facility, in accordance with any local agreements.

## 7. Handling and Storage

**Handling** Normal chemical handling.

**Storage** Store in cool, well ventilated area.  
Store away from oxidizers.  
Store containers closed when not in use.

## 8. Exposure Controls / Personal Protection

**Engineering controls** Ensure good ventilation.

### Personal protective equipment

**Eye / face protection** Safety goggles.  
Splash proof chemical goggles.

**Skin protection** Protective clothing if splashing or repeated contact with product is likely.

**Respiratory protection** Not required. If air-purifying respirator use is appropriate, use any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.

**General hygiene considerations** Wash hands after handling.

## 9. Physical & Chemical Properties

### Appearance

Physical state	Liquid
Color	Colorless to light yellow
Odor	Mild
Odor threshold	Not available.
pH in aqueous solution	5.5 (5% SOL.)
Vapor pressure	< 1 mm Hg
Vapor pressure temp.	70 °F (21 °C)
Vapor density	> 1 (Air = 1)
Boiling point	Not available.
Melting point/Freezing point	-15 °F (-26 °C)
Solubility (water)	1 %
Specific gravity (70°F, 21°C)	1.01
Flash point	> 200 °F (> 93 °C) P-M(CC)
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.
Evaporation rate	< 1 (Ether = 1)
Viscosity	325 cps
Viscosity temperature	70 °F (21 °C)
Percent volatile	0 (Estimated)
Pour point	-10 °F (-23 °C)

## 10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Not available.
Incompatible materials	Avoid contact with strong oxidizers.
Hazardous decomposition products	Oxides of carbon evolved in fire.
Possibility of hazardous reactions	Not applicable.

## 11. Toxicological Information

### Toxicological data

Product	Species	Test Results
PETROFLO 23Y957 (CAS Mixture)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg, (Calculated according to GHS additivity formula)
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg, (Calculated according to GHS additivity formula)
<b>Acute effects</b>	Not classified.	
<b>Carcinogenicity</b>	Not classified. Ames Assay BACTERIA: POSITIVE	
<b>Skin corrosion/irritation</b>	Not classified.	
<b>Mutagenicity</b>	Not classified.	
<b>Reproductive effects</b>	Not classified.	

## 12. Ecological Information

### Ecotoxicity

Product	Species	Test Results	
PETROFLO 23Y957 (CAS Mixture)			
	LC50	Fathead Minnow	695 mg/L, Static Renewal Bioassay, 96 hour
Crustacea	LC50	Daphnia magna	880 mg/L, Static Renewal Bioassay, 48 hour
	NOEL	Daphnia magna	312 mg/L, Static Renewal Bioassay, 48 hour

### Persistence and degradability

> 60 % degradation in 28 days  
CO2 Evolution (Modified Sturm Test) (OECD 301B)  
Testing has shown product to be readily biodegradable.

- COD (mgO2/g)	2040
- BOD 5 (mgO2/g)	5
- BOD 28 (mgO2/g)	9
- Closed Bottle Test (% Degradation in 28 days)	0
- Zahn-Wellens Test (% Degradation in 28 days)	7
- TOC (mg C/g)	540

## 13. Disposal Considerations

**Waste codes** Industrial Liquid Waste

**Disposal instructions** According to Controlled Waste Regulations.

Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

**Contaminated packaging** Do not dispose the product and package to sewer and environment. According to Controlled Waste Regulations.

Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

## 14. Transport Information

### DOT

Not regulated as dangerous goods.

Some containers may be DOT exempt, please check BOL for exact container classification.

### TDG

Not regulated as a dangerous good.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

## 15. Regulatory Information

### US federal regulations

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance**

None listed.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

### CERCLA (Superfund) reportable quantity

None listed.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous chemical** Yes

**Clean Water Act (CWA)** Hazardous substance

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**Food and drug administration** 21 CFR 176.210 & 176.200 (antifoams approved for use in wet end applications and in coating formulations)

### State regulations

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

1,4-DIOXANE (CAS 123-91-1) Listed: January 1, 1988 Carcinogenic.  
Ethylene oxide (oxirane) (CAS 75-21-8) Listed: July 1, 1987 Carcinogenic.  
Propylene oxide (CAS 75-56-9) Listed: October 1, 1988 Carcinogenic.

#### US - California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene oxide (oxirane) (CAS 75-21-8) Listed: August 7, 2009 Developmental toxin.

#### US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Ethylene oxide (oxirane) (CAS 75-21-8) Listed: February 27, 1987 Female reproductive toxin.

#### US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Ethylene oxide (oxirane) (CAS 75-21-8) Listed: August 7, 2009 Male reproductive toxin.

#### US - Massachusetts RTK - Substance List

Not regulated.

#### US - Pennsylvania RTK - Hazardous Substances

Not regulated.

#### US - Rhode Island RTK

Not regulated.

## 16. Other Information

### List of abbreviations

CAS: Chemical Abstract Service Registration Number  
TWA: Time Weighted Average  
STEL: Short Term Exposure Limit  
LD50: Lethal Dose, 50%  
LC50: Lethal Concentration, 50%  
NOEL: No Observed Effect Level  
COD: Chemical Oxygen Demand  
BOD: Biochemical Oxygen Demand  
TOC: Total Organic Carbon  
IATA: International Air Transport Association  
IMDG: International Maritime Dangerous Goods Code  
NFPA: National Fire Protection Association  
ACGIH: American Conference of Governmental Industrial Hygienists  
TSRN indicates a Trade Secret Registry Number is used in place of the CAS number.

### HMIS® ratings

Health: 1  
Flammability: 1  
Physical hazard: 0  
Personal protection: B

### NFPA ratings

Health: 1  
Flammability: 1  
Instability: 0  
Special hazards: NONE

**Prepared by**

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