



# Material Safety Data Sheet

Issue Date: 27-MAR-2013  
Supersedes: 13-SEP-2011

PETROFLO 20Y15

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## 1 Identification

**Identification of substance or preparation**  
PETROFLO 20Y15

**Product Application Area**  
Water based antifoulant.

**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: 27-MAR-2013

## 2 Hazard(s) identification

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**EMERGENCY OVERVIEW**

**DANGER**

Severe irritant to skin. Prolonged exposure may cause burns.  
Potential sensitizer. May be absorbed. Severe irritant to the eyes,  
possibly corrosive. Dusts or mists are irritating to mucous  
membranes. Repeated exposure may result in respiratory  
sensitization.

DOT hazard: Corrosive to steel  
Odor: Amine; Appearance: Colorless, Liquid

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

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**POTENTIAL HEALTH EFFECTS**

**ACUTE SKIN EFFECTS:**

Primary route of exposure; Severe irritant to skin. Prolonged  
exposure may cause burns. Potential sensitizer. May be absorbed.

**ACUTE EYE EFFECTS:**

Severe irritant to the eyes, possibly corrosive.

**ACUTE RESPIRATORY EFFECTS:**

Primary route of exposure; Dusts or mists are irritating to mucous membranes. Repeated exposure may result in respiratory sensitization.

**INGESTION EFFECTS:**

May cause gastrointestinal irritation with possible nausea, vomiting, diarrhea, incoordination, mental confusion, dizziness, lethargy and blurred vision or blindness.

**TARGET ORGANS:**

Prolonged or repeated exposures may cause skin and respiratory sensitization, primary irritant dermatitis, and/or toxicity to the blood.

**MEDICAL CONDITIONS AGGRAVATED:**

Not known.

**SYMPTOMS OF EXPOSURE:**

Inhalation of dust or mist may cause asthma-like symptoms. Excessive skin contact may cause itching and redness and may cause sensitization leading to dermatitis. Absorption may cause cyanosis (blue skin) and convulsions.

### 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. This product is subject to the Pennsylvania and New Jersey Worker and Community Right to Know Law.

**HAZARDOUS INGREDIENTS:**

Cas#	Chemical Name	Range (w/w%)
10039-54-0	HYDROXYLAMINE SULFATE Irritant (skin and respiratory); sensitizer (skin); prolonged exposure may be corrosive; blood toxin (methemoglobinemia)	15-40

**NON-HAZARDOUS INGREDIENTS:**

CAS#	CHEMICAL NAME
7732-18-5	WATER

### 4 First-aid measures

**SKIN CONTACT:**

Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Get medical attention if irritation develops or persists.

**EYE CONTACT:**

URGENT! Immediately flush eyes with plenty of low-pressure water for at least 20 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. Dilute contents of stomach using 2-8 fluid ounces (60-240 mL) of milk or water.

**NOTES TO PHYSICIANS:**

No special instructions

## 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, foam or water

**HAZARDOUS DECOMPOSITION PRODUCTS:**

oxides of nitrogen and sulfur, ammonia and volatile amines

**FLASH POINT:**

> 200F > 93C SETA(CC)

**MISCELLANEOUS:**

Corrosive to steel  
UN3264;Emergency Response Guide #154

## 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. Flush area with water. Wet area may be slippery. 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:**

Acidic. Do not mix with alkaline material.

**STORAGE:**

Keep containers closed when not in use. Protect from freezing. Do not store at elevated temperatures. Shelf life 270 days.

## 8 Exposure controls / personal protection

**EXPOSURE LIMITS**

**CHEMICAL NAME**

HYDROXYLAMINE SULFATE

PEL (OSHA): LIMITS HAVE NOT BEEN ESTABLISHED BY US OSHA.

TLV (ACGIH): LIMITS HAVE NOT BEEN ESTABLISHED BY ACGIH.

**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 any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.

**SKIN PROTECTION:**

gauntlet-type butyl 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	10.0 lbs/gal	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	21	Vapor Density (air=1)	< 1.00
Freeze Point (C)	-6		
Viscosity(cps 70F,21C)	13	% Solubility (water)	100.0

Odor	Amine
Appearance	Colorless
Physical State	Liquid
Flash Point	SETA(CC) > 200F > 93C
pH As Is (approx.)	2.8
Evaporation Rate (Ether=1)	< 1.00
Percent VOC:	0.0

NA = not applicable      ND = not determined

## 10 Stability and reactivity

**CHEMICAL STABILITY:**

Stable under normal storage conditions.

**POSSIBILITY OF HAZARDOUS REACTIONS:**

Contact with strong bases may cause a violent reaction releasing heat.

**INCOMPATIBILITIES:**

May react with bases or strong oxidizers.

**DECOMPOSITION PRODUCTS:**

oxides of nitrogen and sulfur, ammonia and volatile amines

## 11 Toxicological information

Oral LD50 RAT: 1660 mg/kg  
NOTE - Calculated according to GHS additivity formula (Category 4)  
Skin Irritation Score RABBIT: 0.5  
NOTE - EPA Category IV- slight to no irritation; DOT HM181 Packing  
Group- noncorrosive

## 12 Ecological information

### AQUATIC TOXICOLOGY

Daphnia magna 48 Hour Static Renewal Bioassay  
LC50= 1.7; No Effect Level= 1.4 mg/L  
Rainbow Trout 96 Hour Static Renewal Bioassay  
LC50= 8.5; No Effect Level= 3.1 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 :  
D002=Corrosive(steel).

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 steel  
DOT: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(HYDROXYLAMINE  
SULFATE SOLUTION)  
8, UN3264, PG III  
DOT EMERGENCY RESPONSE GUIDE #: 154  
Note: Some containers may be DOT exempt, please check BOL for exact container classification  
IATA: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(HYDROXYLAMINE  
SULPHATE SOLUTION)  
8, UN3264, PG III  
IMDG: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(HYDROXYLAMINE  
SULPHATE SOLUTION)  
8, UN3264, 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):

No regulated constituent present at OSHA thresholds

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

Registration number: Not Registered

**SARA SECTION 312 HAZARD CLASS:**

Immediate(acute);Delayed(Chronic)

**SARA SECTION 313 CHEMICALS:**

No regulated constituent present at OSHA thresholds

**CALIFORNIA REGULATORY INFORMATION**

**CALIFORNIA SAFE DRINKING WATER AND TOXIC**

**ENFORCEMENT ACT (PROPOSITION 65):**

No regulated constituents present

**MICHIGAN REGULATORY INFORMATION**

No regulated constituent present at OSHA thresholds

## 16 Other information

**HMIS vII**

**CODE TRANSLATION**

Health	3	Serious Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal Hazard
Special	CORR	DOT corrosive
(1) Protective Equipment	C	Goggles,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:	02-DEC-2009		** NEW **
	13-SEP-2011		02-DEC-2009
	27-MAR-2013	14	13-SEP-2011