



Material Safety Data Sheet

Issue Date: 03-JUN-2011
Supersedes: 22-OCT-2010

PETROMEEN OS-16

1 Identification

Identification of substance or preparation
PETROMEEN OS-16

Product Application Area
Corrosion inhibitor

Company/Undertaking Identification
GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
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Emergency Telephone
(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300 Prepared on: 03-JUN-2011

2 Hazard(s) identification

EMERGENCY OVERVIEW

WARNING

May cause moderate irritation to the skin. May cause dermatitis.
Severe irritant to the eyes. May cause irritation to the upper
respiratory tract. Exposure may cause dizziness, headache, CNS
depression and chemical pneumonitis.

DOT hazard: Combustible liquid
Odor: Hydrocarbon; Appearance: Brown-Black, 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. May cause dermatitis.

ACUTE EYE EFFECTS:

Severe irritant 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 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 and/or defatting-type dermatitis. Product or product component may increase the 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.

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%)
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	7-13
71-43-2	BENZENE Flammable liquid; irritant (eyes); human carcinogen (IARC=1; NTP=known); toxic to blood and nervous system; potential reproductive toxin	0.1-1.0
64742-94-5	SOLVENT NAPHTHA, PETROLEUM, HEAVY AROMATIC Combustible liquid; irritant (eyes)	40-70
	TRADE SECRET INGREDIENT(E142);TSRN 125438 - 5103P Toxic (by inhalation); irritant (eyes)	*
95-63-6	1,2,4-TRIMETHYLBENZENE Flammable; irritant (respiratory); CNS depressant	10-20
526-73-8	1,2,3-TRIMETHYLBENZENE Combustible liquid; CNS depressant; may affect blood system	5-10

108-67-8 BENZENE, 1,3,5-TRIMETHYL-; MESITYLENE 1-5
Combustible liquid; CNS depressant; may affect blood
system

Naphthalene is not intentionally added to this product but is a component of the aromatic naphtha solvent. It is not a WHMIS regulated component of this controlled product.

NON-HAZARDOUS INGREDIENTS:

CAS#	CHEMICAL NAME
	NONE

4 First-aid measures

SKIN CONTACT:

Wash thoroughly with soap and water for at least 15 minutes. Remove contaminated clothing. Thoroughly wash clothing before reuse. Get immediate medical attention.

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. If vomiting occurs naturally have victim lean forward to reduce risk of aspiration.

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:

~ 150F ~ 66C P-M(CC)

MISCELLANEOUS:

Combustible liquid
NA 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 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.

8 Exposure controls / personal protection

EXPOSURE LIMITS

CHEMICAL NAME

NAPHTHALENE

PEL (OSHA): 10 PPM

TLV (ACGIH): 10 PPM

BENZENE

PEL (OSHA): TWA = 1 PPM; STEL = 5 PPM

TLV (ACGIH): TWA (SKIN) = 0.5 PPM; STEL = 2.5 PPM; A1

MISC: NIOSH REL = 0.1 PPM; NIOSH STEL = 1 PPM; NIOSH IDLH = 500 PPM

SOLVENT NAPHTHA, PETROLEUM, HEAVY AROMATIC

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

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

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

TRADE SECRET INGREDIENT(E142);TSRN 125438 - 5103P

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

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

1,2,4-TRIMETHYLBENZENE

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

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

1,2,3-TRIMETHYLBENZENE

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

TLV (ACGIH): TWA = 25 PPM

BENZENE, 1,3,5-TRIMETHYL-; MESITYLENE

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

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

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:

Wear gloves-- Wash off after each use. Replace as necessary.

EYE PROTECTION:

splash proof chemical goggles

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)	18	% Solubility (water)	0.0

Odor	Hydrocarbon
Appearance	Brown-Black
Physical State	Liquid
Flash Point	P-M(CC) ~ 150F ~ 65C
pH 1% Disp. (approx.)	7.3
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:	>5,000 mg/kg
NOTE - Calculated value according to GHS additivity formula	
Dermal LD50 RABBIT:	2830 mg/kg
NOTE - Calculated value according to GSH additivity formula	

12 Ecological information

AQUATIC TOXICOLOGY

Daphnia magna 48 Hour Static Acute Bioassay
LC50= 7; No Effect Level= 3.7 mg/L
Fathead Minnow 96 Hour Static Acute Bioassay
LC50= 8.3; No Effect Level= 7.5 mg/L

BIODEGRADATION

BOD-28 (mg/g): 999
BOD-5 (mg/g): 198
COD (mg/g): 2080
TOC (mg/g): 831

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: Combustible liquid
DOT: COMBUSTIBLE LIQUID, N.O.S.(NAPHTHALENE SOLUTION)
NA 1993, PG III, RQ
DOT EMERGENCY RESPONSE GUIDE #: 128
Note: Some containers may be DOT exempt, please check BOL for exact container classification
IATA: Not Regulated

IMDG: Not Regulated

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):

163 gallons due to NAPHTHALENE;1,992 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	11.0-15.0%

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	2	Moderate Hazard
Fire	2	Moderate Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles,Gloves

(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-AUG-1995	REVISED FORMAT	** NEW **
	23-AUG-1996	5,14;EDIT:9	22-AUG-1995
	01-APR-1997	12	23-AUG-1996
	02-SEP-1997	2	01-APR-1997
	08-JAN-1998	2,8,15	02-SEP-1997
	24-APR-1998	2,8,15	08-JAN-1998
	02-JUN-2000	3,4,5,14	24-APR-1998
	21-AUG-2001	2	02-JUN-2000
	05-MAY-2006	2	21-AUG-2001
	01-JUN-2009	10	05-MAY-2006
	22-OCT-2010	2,3,7,8,13,14,15	01-JUN-2009
	03-JUN-2011	8,15	22-OCT-2010