MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name **Bel-Ray Foam Filter Oil**

Product Code 99190

MSDS Number 6432

Version # 1.0

Revision date 06-13-2010

Product use Lubricant

Manufacturer information

Bel-Ray Company, Inc.
P.O. Box 526
Farmingdale, NJ 07727
United States of America
+1 732 938 2421
CHEMTREC: +1 703-527-3887 (outside USA)
CHEMTREC: 800-424-9300 (USA)

2. Hazards Identification

Emergency overview

CAUTION

Combustible liquid and vapor.

This is a consumer care product that is safe for consumers when used according to the labe directions. Like many consumer products, a small number of individuals may experience reactions such as redness, rash and / or swelling upon prolonged or repeated skin contact or eye contact.

OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Inhalation.

Eyes Contact with eyes may cause irritation.

Skin May cause skin irritation in susceptible persons.

Inhalation May be irritating. Prolonged inhalation may be harmful.

Ingestion Health injuries are not known or expected under normal use.

Target organs Central nervous system.

Chronic effects May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage.

Signs and symptoms Narcosis. Decrease in motor functions. Behavioral changes. Irritation of nose and throat. Irritation of eyes and mucous membranes.

Potential environmental effects Not expected to be harmful to aquatic organisms.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Interchangeable base oils, one or more: 64742-01-4, 64741-88-4, 64742-52-5		20 - 40
STODDARD SOLVENT	8052-41-3	20 - 40
1,2,4-TRIMETHYLBENZENE	95-63-6	1 - 2.5

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Ingestion Rinse mouth. Do not induce vomiting. If ingestion of a large amount does occur, call a poison control center immediately. Never give liquid to an unconscious person.

Notes to physician Symptoms may be delayed.

General advice Call a physician if symptoms develop or persist. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties Combustible by OSHA criteria. NFPA Rating Fire = 2. Materials that must be moderately heated or exposed to relative high ambient temperatures before ignition can occur. Heat may cause the containers to explode. Runoff to sewer may cause fire or explosion hazard.

Extinguishing media

Suitable extinguishing media Water. Foam. Dry powder. Carbon dioxide (CO2).

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Fire fighting equipment/instructions Not available.

Specific methods In the event of fire and/or explosion do not breathe fumes. Cool containers exposed to flames with water until well after the fire is out.

Hazardous combustion products May include oxides of nitrogen. Carbon monoxide and carbon dioxide.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Keep upwind. Keep out of low areas. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. In case of spills, beware of slippery floors and surfaces.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Methods for cleaning up Should not be released into the environment.

Large Spills: Dike far ahead of spill for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water.

Never return spills in original containers for re-use.

7. Handling and Storage

Handling DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke. All equipment used when handling the product must be grounded. Use only in area provided with appropriate exhaust ventilation. Avoid prolonged exposure. Avoid release to the environment.

Storage The pressure in sealed containers can increase under the influence of heat. Keep away from heat and sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration recommended. Room temperature - normal conditions. Store in a well-ventilated place. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components	Type	Value	Form
1,2,4-TRIMETHYLBENZENE (95-63-6)	TWA	25.0000 ppm	
Interchangeable base oils, one or more: 64742-01-4, 64741-88-4, 64742-52-5	STEL	10.0000 mg/m3	Mist.
	TWA	5.0000 mg/m3	Mist.
STODDARD SOLVENT (8052-41-3)	TWA	100.0000 ppm	

U.S. - OSHA

Components	Type	Value	Form
1,2,4-TRIMETHYLBENZENE (95-63-6)	TWA	125.0000 mg/m3 25.0000 ppm	
Interchangeable base oils, one or more: 64742-01-4, 64741-88-4, 64742-52-5	PEL	5.0000 mg/m3	Mist.
	TWA	5.0000 mg/m3	Mist.
STODDARD SOLVENT (8052-41-3)	PEL	2900.0000 mg/m3 500.0000 ppm	
	TWA	100.0000 ppm 525.0000 mg/m3	

Engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Eye / face protection Not normally needed.

Skin protection No special protective equipment required.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General hygiene considerations When using do not smoke.

9. Physical & Chemical Properties

Appearance Oily.

Color Blue.

Odor Mild.

Odor threshold Not available.

Physical state Liquid

Form Liquid.

pH Not available.

Melting point/Freezing point -94 °F (-70 °C) estimated / -94 °F (-70 °C) estimated

Boiling point 302 °F (150 °C) estimated

Flash point 113 °F (45 °C) Pensky-Martens Closed Cup

Evaporation rate Not available.

Flammability limits in air, upper, % by volume Not available.

Flammability limits in air, lower, % by volume Not available.

Vapor pressure 1.9096 hPa estimated

Density 873 kg/m³

Vapor density Not available.

Specific gravity 0.873

Relative density Not available.

Solubility (water) Negligible

Solubility (other) Oil

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature 449.6 °F (232.222 °C) estimated

Decomposition temperature Not available.

VOC 41.33 % estimated

Viscosity 200 cSt @ 104 °F (40 °C)

Percent volatile 41.548 % estimated

10. Chemical Stability & Reactivity Information

Chemical stability	Risk of ignition. Material is stable under normal conditions.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Irritants. Nitrogen oxides (NOx). At thermal decomposition temperatures, carbon monoxide and carbon dioxide.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Components	Test Results
1,2,4-TRIMETHYLBENZENE (95-63-6)	Acute Dermal LD50 Rabbit: > 3160 mg/kg
	Acute Inhalation LC50 Rat: > 2000 mg/l 48.00 Hours
	Acute Oral LD50 Rat: 8970 mg/kg

* Estimates for product may be based on additional component data not shown.

Local effects	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Contact with eyes may cause irritation. May cause skin irritation.
Chronic effects	Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may cause chronic effects.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

STODDARD SOLVENT (CAS 8052-41-3)	3 Not classifiable as to carcinogenicity to humans.

Neurological effects	Hazardous by OSHA criteria.
Further information	Symptoms may be delayed.

12. Ecological Information

Ecotoxicological data

Product	Test Results
Bel-Ray Foam Filter Oil (Mixture)	EC50 Daphnia: 3027 mg/l 48.00 hours estimated
	LC50 Fish: 674 mg/l 96.00 hours estimated

Components	Test Results
1,2,4-TRIMETHYLBENZENE (95-63-6)	LC50 Fathead minnow (Pimephales promelas): 7.19 - 8.28 mg/l 96.00 hours

* Estimates for product may be based on additional component data not shown.

Ecotoxicity	Contains a substance which causes risk of hazardous effects to the environment.
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Persistence and degradability	Not available.

13. Disposal Considerations

Waste codes	D001: Waste Flammable material with a flash point <140 F
Disposal instructions	Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Dispose of in accordance with local regulations.

14. Transport Information

DOT

Basic shipping requirements:

UN number	NA1993
Proper shipping name	Combustible liquid, n.o.s. (STODDARD SOLVENT)
Hazard class	Comb liq
Subsidiary hazard class	None
Packing group	III

Additional information:

Special provisions	IB3, T1, T4, TP1

Basic shipping requirements:

Labels required	None

Additional information:

Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	241
ERG number	128

IATA

Basic shipping requirements:

UN number	1993
Proper shipping name	Flammable liquid, n.o.s. (STODDARD SOLVENT)
Hazard class	3
Packing group	III

IMDG

Basic shipping requirements:

UN number	1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S. (STODDARD SOLVENT)
Hazard class	3
Subsidiary hazard class	F1
Packing group	III

IATA

IMDG

Further information FOR DOT: This material is not regulated under 49 CFR if in a container of 119 gallon capacity or less.

15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

1,2,4-TRIMETHYLBENZENE (CAS 95-63-6)	1.0 %

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

1,2,4-TRIMETHYLBENZENE (CAS 95-63-6)	Listed.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

Section 302 extremely hazardous substance
No

Section 311 hazardous chemical
No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
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)

State regulations
WARNING: This product contains a chemical known to the State of California to cause cancer.

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

ETHYLBENZENE (CAS 100-41-4)	Listed: June 11, 2004 Carcinogenic.
NAPHTHALENE (CAS 91-20-3)	Listed: April 19, 2002 Carcinogenic.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

1,2,4-TRIMETHYLBENZENE (CAS 95-63-6)	500 LBS

US - Pennsylvania RTK - Hazardous Substances: Listed substance

1,2,4-TRIMETHYLBENZENE (CAS 95-63-6)	Listed.
Interchangeable base oils, one or more: 64742-01-4, 64741-88-4, 64742-52-5 (CAS)	Listed.
STODDARD SOLVENT (CAS 8052-41-3)	Listed.

16. Other Information

Further information
HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings
Health: 1*
Flammability: 2
Physical hazard: 0

NFPA ratings
Health: 1
Flammability: 2
Instability: 0

Disclaimer
Bel-Ray Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Issue date
06-13-2010