



MATERIAL SAFETY DATA SHEET

SECTION 1 PREPARATION INFORMATION

SUPPLIER/MANUFACTURER
Eco Global Solutions, Inc.
2850 Red Hill Avenue Suite 210
Santa Ana, CA 92705

PHONE NUMBERS
Business Hours: (949) 955-1039
24 Hours: Chemtrec: (800) 424-9300
General MSDS: (949) 955-1039

SECTION 2 PRODUCT INFORMATION

Product Name: Heavy Fuel Oil Enhancer
General/Generic: Solvent Blend
Product Use: Additive for heavy fuel oils
WHMIS Classification: B3 D2B
DSL Status: ON DSL

SECTION 3 SHIPPING INFORMATION

Shipping Name: NOT REGULATED AS DANGEROUS GOODS FOR SHIPPING
UN Number: N/A
Class: N/A
Packing Group: N/A

SECTION 4 HAZARDOUS INGREDIENT (S)

Ingredient:	% W/W	TLV	CAS No.
Naphtha Petroleum:	60-100	100 PPM (*)	64742-94-5
Naphthalene	3-7	10 PPM	91-20-3
Organometallic Compounds:	1-5	10 MG / M3	N/A (Blend)
1,2,4 Trimethylbenzene:	0.1-1	25 PPM	95-63-6

SECTION 5 PHYSICAL DATA

Initial Boil Point 158°C or 316°F @ 760 MMHG
Vapor Pressure 3.75 MMGH@ 38°C or 100°F
Vapor Density Heavier than air
Evaporation Rate Slower than ether
Physical State Liquid
Odor Threshold N/E
Freezing Point N/E
Specific Gravity 0.89 @ 20°C or 68°F
% Volatile 100%
Appearance and Odor Clear yellow liquid, aromatic odor



MATERIAL SAFETY DATA SHEET

SECTION 6

FIRE & EXPLOSION INFORMATION

Flash Point	Closed cup 62.8°C or 145°F
Flammable Limits	LFL: 0.9% UFL: 6.0%
Auto Ignition Temperature	N/E
Extinguishing Media	Foam, water fog, dry chemical or carbon dioxide
Hazardous Combustion Products	Carbon dioxide and carbon monoxide, various hydrocarbons, etc

FIRE FIGHTING PROCEDURES

Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

SPECIAL FIRE & EXPLOSION HAZARDS

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point.

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

All five gallon pails and larger metal containers including tank cars and tank trucks should be grounded and/or bonded when material is transferred.

SECTION 7

TOXICOLOGICAL PROPERTIES

Threshold Limit Value See section 4

EFFECT OF ACUTE EXPOSURE

Eyes	May cause severe irritation, redness, tearing and blurred vision
Skin	May cause irritation
Breathing	Excessive inhalation of vapors may cause nasal and respiratory irritation
Swallowing	Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into lungs can cause chemical pneumonitis, which can be fatal.

OTHER DATA

Solvent Naphtha	LD:50 (ORL-RAT)	3000 MG / KG
(Petroleum) Heavy	LD:50 (SKN-RBT)	3000 MG / KG
Aromatic	LC:50 (INH-RAT)	>3800 MG / M3 / 4H
NAPHTALENE	LD:50 (ORL-RAT)	>490 MG / KG
	LD:50 (SKN-RBT)	>20 G / KG
	LC: 50 (INH-RAT)	>340 MG / M3 / 4H



MATERIAL SAFETY DATA SHEET

SECTION 8

FIRST AID MEASURES

FIRST AID

Skin	Thoroughly wash exposed area with soap and water. Remove contaminated clothing before reuse.
Eyes	Flush with large amounts of water, lifting upper and lower lids occasionally, get medical attention.
Swallowed	Do not induce vomiting, keep person warm, quiet and get medical attention. Aspiration of material into lungs due to vomiting can cause chemical pneumonitis, which can be fatal.
Inhaled	If affected, remove individual to fresh air. If breathing is difficult administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.

SECTION 9

REACTIVITY DATA

Hazardous Polymerization	Cannot occur
Stability	Stable
Incompatibility	Avoid contact with strong oxidizing agents, sulfuric acid, nitric acid
Hazardous Decomposition Products	Not applicable

SECTION 10

PREVENTATIVE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED

Small Spill

Absorb onto sand or other absorbent material

Large Spill

Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks) persons not wearing protective equipment should be excluded from the area of spill until clean up has been completed. Stop spill at source: dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

WASTE DISPOSAL METHOD

Small Spill

Deposit in landfill in accordance with all local and provincial and federal regulations

Large Spills

Destroy by incineration in accordance with all local, provincial and federal regulations.



MATERIAL SAFETY DATA SHEET

Respiratory Protection

If workplace exposure limit (s) of product or any component is exceeded (see section 6) a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier) engineering or administrative controls should be implemented to reduce exposure.

Ventilation

Provide sufficient mechanical (general and or local exhaust) ventilation to maintain exposure below TLV (s)

Protective Gloves

Wear resistant gloves such as polyethylene

Eye Protection

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type of safety glasses. (consult your safety equipment supplier)

Other Protective Equipment:

To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Product Disposal Information

This product may be classified as a liquid industrial waste or a registerable solid waste and may be subject to waste generator requirements.

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Metal and plastic container may be recycled. Please contact your drum reconditioner for further information.

The information presented herein is believed to be accurate, but is not warranted to be, whether originating with the company or not, recipients are advised to confirm, in advance of need, that the information is current, applicable, and suitable to their circumstances.

Prepared by:

Eco Global Solutions, Inc. & its affiliate companies

Date Prepared:

January 20, 2009

NOTE:

- * Recommended
- N/E—Not Established
- N/A—Not Applicable