

MATERIAL SAFETY DATA SHEET

Manufacturer: Schaeffer Mfg. Company			Emergency Response Number:			
Address: 102 Barton Street			314-865-4105 (24-hour emergency response			
Address: St. Louis, MO 63104			number or 800-325-9962			
SECTION 1 – PRODUCT INFORMATION						
Chemical Family: Petroleum Hydrocarbons			Trade Name: #137B Diesel Treat 2000 Ultra Low Sulfur			
Formula: Proprietary Mixture						
SECTION 2 – HAZARDOUS INGREDIENTS						
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES	CAS Number	%	Exposure Limits			
			TVL		PEL	
			ppm	mg/m ³	ppm	Mg/m ³
Heavy Aromatic Solvent Naphtha	64742-94-5	0.3-5.8	50			
Xylene	1330-20-7	3.4-6.93	100	434	100	435
2-Ethylhexyl Nitrate	27247-96-7	3-6	8			
Light Ends of Polyethylenebenzene Residue	178535-25-8	9-18	NE		NE	
2-Butoxyethanol	111-76-2	6-9	NE		NE	
Vinyl Acetate Monomer	108-05-4	0.03-0.3	10	35	10	30
Kerosene	8008-20-6	0.03-0.3	100			
Naphthalene	91-20-3	1.14-1.35	10	25	10	25
Ethylbenzene	100-41-4	0.78-6.37	100	434	100	435
Petroleum Distillates	64742-47-8	0-50		200		
1,2,4 Trimethylbenzene	95-63-6	0.34-1.62	25	123	25	125
Light Aromatic Naphtha	64742-95-6	0-52	50		NE	
Residues (petroleum) Steam-Cracked Light	68513-69-9	0-50		5		5
Benzene	71-43-2	0-9.74	0.5		1	
Toluene	108-88-3	0-4.38	50		200	
Styrene	100-42-5	0-3.4	20	85	100	
Section 3 – PHYSICAL DATA						
Boiling Point:	190°F/88°C	Specific Gravity:	0.8910 – 0.9233			
Vapor Pressure (mm, Hg):	<.1	% Volatile:	70-99			
Vapor Density (Air = 1):	Not Determined	Evaporation Rate: (=1)	Not Determined			
Solubility in Water:	Disperses	pH:	Not Applicable			
Appearance and Odor: Dark color, slight aromatic odor.						
SECTION 4 – FIRE AND EXPLOSION HAZARD DATA						
Flash Point (Method) °F/°C: 89 ° - 124° F/32° - 51° C PMCC			Flammability Limits UEL & LEL ----: Not Determined			
Extinguishing Media: Carbon dioxide foam, dry chemical foam, sand, earth, waterfog.						
Special Fire Fighting Procedures: For fires involving this material, do not enter any enclosed or confined space without protective equipment including self-contained breathing apparatus. Cool exposed containers with waterspray. Avoid breathing fumes.						
Unusual Fire & Explosion Hazards: Vapors may be heavier than air and travel along the ground to a distant ignition source and flash back. Containers may rupture upon heating. The 2-Ethylhexyl Nitrate contained in this product may undergo a self-accelerating exothermic reaction if the product is heated above 212°F/100°C.						
SECTION 5 – REACTIVITY HAZARD DATA						
STABILITY	<input checked="" type="checkbox"/> STABLE	<input type="checkbox"/> UNSTABLE	Hazardous Decomposition <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR			
Conditions to Avoid: High heat, high energy ignition sources						
Incompatibility (Mat. to avoid): Strong oxidizing agents, amines, phenols, halogen compounds.						
Hazardous Decomposition Products: Oxides of carbon and nitrogen. By products of incomplete combustion.						
Conditions to Avoid: None.						
SECTION 6 - HEALTH HAZARD DATA						
Threshold Limit Value and Sources: None Established.						
Acute Effects of Overexposure:						
Ingestion: Harmful if swallowed. Irritation of the gastrointestinal lining, nausea, vomiting, diarrhea and abdominal pain. May also cause central nervous system depression. Aspiration if swallowed. Can enter lungs and cause damage						
Eye Contact: Liquid contact produces severe irritation to the eyes.						
Skin Contact: Prolonged and repeated contact with the skin can cause redness or severe irritation. Can be absorbed through the skin						
Inhalation: Toxic by Inhalation. Inhalation of vapors can cause headache, dizziness, nausea, central nervous system depression.						
CHRONIC EFFECTS OF OVEREXPOSURE: Contains materials which may cause damage to the following organs: blood, kidneys, liver, gastrointestinal tract, upper respiratory tract, skin, central nervous system, eye lens or cornea. Contains materials which may cause cancer. Risk of cancer depends upon duration and level of exposure. Pre-existing disorders involving target organs mentioned as being at risk may be aggravated by over-exposure to this product.						
Emergency and First Aid Procedures:						
Swallowing: Wash out mouth with water and then drink 2-4 cups of water. Do not induce vomiting. Seek medical attention immediately. Never give anything by mouth to an unconscious person.						
Skin: Wash skin thoroughly with soap and water. Flush skin for at least 15 minutes. Launder contaminated clothing. Throw away product soaked shoes.						
Inhalation: Remove victim to fresh air. If breathing is labored, administer oxygen by trained personnel. If breathing has stopped start artificial respiration immediately by trained personnel. Seek medical attention immediately if breathing difficulties continue.						
Eyes: Check for and remove any contact lenses. Flush eyes with plenty of clear, cool, clean water for 15 minutes occasionally lifting the upper and lower eyelids. Seek medical attention immediately						

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SECTION 7 – SPILL OR LEAK PROCEDURES

Environmental Impact: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment. If spilled into a watercourse, call the United States Coast Guard Toll Free No. 800-424-8802. If spilled report spill immediately to all applicable Federal, State and Local agencies and authorities.

Procedures To Be Taken If Material Is Released or Spilled: Stop leak if without risk. Dike spill. Eliminate all sources of ignition. Absorb spills with sawdust, sand, earth, oil dry, vermiculite, or other absorbent materials. Ventilate confined spaces. Keep out of sewers and watercourses. Use spark proof and explosion proof equipment. Inform relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, and air). Wear appropriate personal protective equipment when cleaning up spill. Wear appropriate respirator when ventilation is inadequate.

Waste Disposal Method: Dispose of waste material with a licensed waste disposal contractor in accordance with all applicable federal, state and local laws and regulations. This product is considered to be an RCRA hazardous waste due to its flammability D001, the presence of Benzene 71-43-2 and reactivity

SECTION 8 – SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use NIOSH/MSHA approved full-face respirator with an organic vapor cartridge if the recommend exposure limits are exceeded

Ventilation: : Local exhaust to keep vapors below exposure limits

Eye Protection: Chemical resistant Goggles or full face shield.

Protective Clothing: Long sleeve shirt is recommended. Wear either a chemical protective suit or apron when potential for contact with material exists. Use neoprene and nitrile rubber boots when necessary to avoid contaminating shoes. Wear impervious nitrile or neoprene gloves.

SECTION 9 – SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storage: Do not store near heat, spark, flame or strong oxidizers. Keep containers closed when not in use. Keep containers closed when not in use. Adequate ventilation required. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating an accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing and vacuum truck operations) and use appropriate mitigating procedures.

Special Comments: This product is a flammable liquid. Avoid breathing vapors. Avoid prolonged or repeated skin contact. Remove contaminated shoes and clothing. Throw away shoes. Launder clothing before reuse. Wash thoroughly with soap and water after use and before eating, drinking, smoking, and using toilet facilities. Empty containers retain product residue and can be hazardous. Do not reuse containers. To avoid fire or explosion dissipate static electricity during transferring by grounding and bonding containers and equipment before transferring material. Do not store in unlabeled or unmarked containers.

SECTION 10-ADDITIONAL HEALTH AND TOXICOLOGICAL INFORMATION

HMIS & NFPA RATINGS

Health = 2 Fire = 2 Reactivity = 1

Contaminated clothing should be discarded or properly and/or decontaminated before reuse.

Under no circumstances should vomiting be induced. Vomiting can cause aspiration of the product into the lungs. If aspirated into the lungs, chemical pneumonia, which may cause death in spite of treatment with oxygen and antibiotics, may occur.

This product contains 1.14-1.35% of Naphthalene CAS #91-20-3, 0.78-6.37% of Ethylbenzene CAS# 100-41-4, 0-9.74% Benzene, CAS #71-43-2, 0-4.38% Toluene CAS 108-88-3 and 0.03-0.3% Vinyl Acetate Monomer CAS #108-05-4 which are chemicals found on the National Toxicology Programs Annual Reports, International Agency for Cancer Research's Monographs or OSHA's Subpart Z list as suspected human cancer causing agents.

This product contains the following chemicals known to the State of California to cause cancer and/or birth defects based upon the maximum impurity levels of components: 1.14-1.35% of Naphthalene CAS #91-20-3, 0.78-6.37% of Ethylbenzene CAS# 100-41-4, 0-9.74% Benzene, CAS #71-43-2, 0-4.38% Toluene CAS 108-88-3 and 0.03-0.3% Vinyl Acetate Monomer CAS #108-05-4

This product is an IRC (ignitable, reactive, corrosive) substance under CERCLA. If 260 gallons of the material is spilled which will release 100lbs of 2-Ethylhexyl Nitrate into the environment and unless the material is cleaned up immediately for reprocessing, recycling or reuse this may trigger the reporting requirements of CERCLA Section 103.

Acute Toxicity:

Xylene

LD50 Dermal - 4320mg/kg in rabbits

LD50 Oral - 4300 mg/kg in rats

LC50 Inhalation – 5000 ppm in rats 1 hour exposure time

Light Aromatic Solvent Naphtha

LD50 Oral – 8,400mg/kg in rats

1,2,4,-Trimethylbenzene

LD50 Oral -5g/kg in rats

Naphthalene

LD50 dermal - >2500mg/kg in rats

LD50 Oral – 490mg/kg in rats

LC50 Inhalation - >340mg/m³ in rats 1 hour exposure time

Heavy Aromatic Naphtha

LD50 Dermal - >2000mg/kg in rabbits

LD50 Oral - >2000mg/kg in rats

SECTION 10-ADDITIONAL HEALTH AND TOXICOLOGICAL INFORMATION CONTINUED

Kerosene

LD50 Dermal - >2000mg/kg in rabbits

LD50 Oral - >5000mg/kg in rats

Ethylbenzene

LD50 Dermal - >5000mg/kg in rabbits

LD50 Oral - 3500mg/kg in rats

Acute Toxicity

Vinyl Acetate

LD50 Dermal - 2335mg/kg in rabbits

LD50 Oral - 2900mg/kg in rats

2-Ethylhexyl Nitrate

LD50 Dermal - >4820mg/kg in rabbits

LD50 Oral - >9640mg/kg in rats

LC50 - >639 ppm in rats 1 hour exposure time

2-Ethylhexyl Alcohol

LD50 Dermal - >1,970mg/kg in rabbits

LD50 Oral - >3730mg/kg in rats

LC50 - >2000ppm in rats 6 hour exposure time

Petroleum Distillates

LD50 Dermal - >2g/kg in rabbits

LD50 Oral - >6g/kg in rats

LC50 - >1400ppm in rats 4 hour exposure time

The materials in this product are listed on the US TSCA Inventory and are in compliance with the Canadian Environmental Protection Act.

See next page for SARA Title III Information

All of the ingredients of this product are listed on the USA TSCA Inventory List and are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substance List

Section 11 Transportation Information

US DOT

4X1-gallon cases: ORM-D Consumer Commodity

5 gallon pails: UN1993, Flammable Liquids, N.O.S.,(Petroleum Distillates, Light Aromatic Petroleum Naphtha, Heavy Aromatic Naphtha,2-Ethylhexyl Nitrate, Xylene, 2-Butoxyethanol), 3, PGIII

30 and 55 gallon drums: UN1993, Flammable Liquids, N.O.S.,(Petroleum Distillates, Light Aromatic Petroleum Naphtha, Heavy Aromatic Naphtha,2-Ethylhexyl Nitrate, Xylene,2-Butoxyethanol), 3, PGIII,RQ(Benzene)

275 gallon Intermediate Bulk Tote: UN1993, Flammable Liquids,(Petroleum Distillates, Light Aromatic Petroleum Naphtha, Heavy Aromatic Naphtha, 2-Ethylhexyl Nitrate, Xylene, 2-Butoxyethanol),, 3, PGIII, RQ,(Benzene, Xylene),

Bulk >1,000 gallons : UN1993, Flammable Liquids,(Petroleum Distillates, Light Aromatic Petroleum Naphtha, Heavy Aromatic Naphtha, 2-Ethylhexyl Nitrate, Xylene, 2-Butoxyethanol), 3, PGIII, RQ, (Benzene ,Xylene, Naphthalene, Ethylbenzene, Toluene)

IATA – DGR : 5-gallon pails:UN1993, Flammable Liquids,(Petroleum Distillates, Light Aromatic Petroleum Naphtha, Heavy Aromatic Naphtha, 2-Ethylhexyl Nitrate, Xylene, -2Butoxyethanol),3,PGIII (4X1 gallon cases can not be shipped by air)

IATA-DGR: 30 and 55 gallon drums: UN1993, Flammable Liquids, N.O.S.,(Petroleum Distillates, Light Aromatic Petroleum Naphtha, Heavy Aromatic Naphtha,2-Ethylhexyl Nitrate, Xylene,2-Butoxyethanol), 3, PGIII,RQ(Benzene)

IMDG: 5 gallon pails,: UN1993, Flammable Liquids,(Petroleum Distillates, Light Aromatic Petroleum Naphtha, Heavy Aromatic Naphtha, 2-Ethylhexyl Nitrate, Xylene,2-Butoxyethanol),3,PGIII, Flash Point 32°-51°C, PMCC

30 and 55: gallon drums: : UN1993, Flammable Liquids,(Petroleum Distillates, Light Aromatic Petroleum Naphtha, Heavy Aromatic Naphtha, 2-Ethylhexyl Nitrate, Xylene, 2-Butoxyethanol),3,PGIII, RQ, (Benzene), Flash Point 32°-51°C, PMCC

275 gallon Intermediate Bulk Tote : UN1993, Flammable Liquids,(Petroleum Distillates, Light Aromatic Petroleum Naphtha, Heavy Aromatic Naphtha, 2-Ethylhexyl Nitrate, Xylene, 2-Butoxyethanol),, 3, PGIII, RQ,(Benzene, Xylene),

SARA TITLE III INFORMATION

I. Section 302/304 Extremely Hazardous

Component	CAS#	%	RQ (lbs.)	RQ (gal.)*
Benzene	71-43-2	0-9.74	10	13
Vinyl Acetate Monomer	108-05-4	0.03-0.3	5,000	216,301

II. Section 102(a) CERCLA Hazardous Substance

Component	CAS#	%	RQ (lbs.)	RQ (gal)*
Xylene	1330-20-7	3.4-6.93	100	187
Naphthalene	91-20-3	1.13-1.35	100	963
Ethylbenzene	100-41-4	0.78-6.37	1000	2,111
Vinyl Acetate Monomer	108-05-4	0.03-0.3	5000	216,301
Benzene	71-43-2	0-9.74	10	13
Toluene	108-88-3	0-4.38	1000	2,975

III. Title Section 311 Hazardous Categorization

Acute	Chronic	Fire	Pressure	Reactivity
X	X	X		X

IV. Section 313 Toxic Chemical

Component	CAS#	%
Xylene	1330-20-7	3.4-6.93
Naphthalene	91-20-3	1.13-1.36
2-Butoxyethanol	111-76-2	6-9
Ethylbenzene	100-41-4	0.78-6.37
Vinyl Acetate Monomer	108-05-4	0.03-.0.3
1,2,4 Trimethylbenzene	95-63.6	0.34-1.62
Benzene	71-43-2	0-9.74
Toluene	108-88-3	0-4.38

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