

MATERIAL SAFETY DATA SHEET

| Manufacturer: Schaeffer Mfg. Company | | Emergency Response Number: 314-865-4105 (24 hr Emergency Response) or 800-325-9962 | | | | |
|---|--|---|---|-------------------|-----|-------------------|
| Address: 102 Barton Street | | | | | | |
| Address: St. Louis, MO 63104 | | | | | | |
| SECTION 1 – PRODUCT INFORMATION | | | | | | |
| Chemical Family: Petroleum Hydrocarbons | | | Trade Name: #141 Bio Treat | | | |
| 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 |
| Xylene | 1330-20-7 | <2.23 | 434 | 100 | 435 | |
| Light Aromatic Solvent Naphtha | 64742-95-6 | 8-15 | 50 | | | |
| 2-Ethyl Hexyl Nitrate | 27247-96-7 | 15-25 | 8 | | | |
| Petroleum Distillates | 64742-47-8 | 30-40 | 200 | | 500 | 1200 |
| Proprietary polymers and chemicals | Mixture | 14-20 | NE | | NE | |
| 1,2,4 Trimethylbenzene | 95-82-6 | <5.8 | 25 | 125 | 25 | 123 |
| Trimethylbenzene (mixed isomers) | 25551-13-7 | 25 | 25 | | NE | |
| Heavy Aromatic Solvent Naphtha | 64742-94-5 | 6-21 | 50 | | | |
| Ethylbenzene | 100-41-4 | <3.3 | 100 | | 100 | 435 |
| Naphthalene | 91-20-3 | <3.815 | 10 | | 10 | 50 |
| Benzene | 71-43-2 | 0.00174 | 0.5 | | 1 | |
| 2-Butoxyethanol | 111-76-2 | 8-12 | 20 | | 50 | 240 |
| Phenol | 108-95-2 | 0.035 | 5 | | 5 | 19 |
| Section 3 – PHYSICAL DATA | | | | | | |
| Boiling Point: | >300°F/>148.8°C | | Specific Gravity: | 0.9281-0.9318 | | |
| Vapor Pressure (mm, Hg): | <.1 | | % Volatile: | <15 | | |
| 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: 129°-140°F/54°-60°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-Ethyl Hexyl 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 and 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: | Nausea, abdominal discomfort, diarrhea. | | | | | |
| Eye Contact: | Liquid contact produces severe irritation to the eyes. | | | | | |
| Skin Contact: | Prolonged and repeated skin contact may cause redness, severe irritation and defatting of skin. Product may be absorbed through skin. | | | | | |
| Inhalation: | Inhalation of vapors can cause headache, dizziness, nausea, or decreased blood pressure.. | | | | | |
| CHRONIC EFFECTS OF OVEREXPOSURE: Repeated overexposure can cause liver and kidney damage. | | | | | | |
| Emergency and First Aid Procedures: | | | | | | |
| Swallowing: | If a large amount of this material is swallowed give a large amount of water to drink. Do not induce vomiting. Seek medical attention immediately. | | | | | |
| Skin: | Remove contaminated clothing. Wash skin thoroughly with soap and water. | | | | | |
| Inhalation: | Remove victim to fresh air. If breathing has stopped start artificial respiration immediately. | | | | | |
| Eyes: | Flush eyes with clear, cool, clean water for 15 minutes. Seek medical attention immediately. | | | | | |
| SECTION 7 – SPILL OR LEAK PROCEDURES | | | | | | |
| Environmental Impact: This material is not expected to present any environmental problems other than those associated with oil spills. If spilled into a watercourse, call the Coast Guard Toll Free No. 800-424-8802. | | | | | | |
| Procedures To Be Taken If Material Is Released or Spilled: Eliminate all sources of ignition. Absorb spills with absorbent clay. Ventilate confined spaces. Keep out of sewers and watercourses. | | | | | | |
| Waste Disposal Method: Dispose of at an approved waste or disposal site facility in accordance with all applicable federal, state and local laws and regulations. This product is expected to be an RCRA hazardous waste due to its reactivity and presence of Benzene D018 | | | | | | |

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| SECTION 8 – SPECIAL PROTECTION INFORMATION | |
|---|--|
| Respiratory Protection: | None required under ordinary conditions of use. Use NIOSH/MSHA approved full face respirator with an organic cartridge if the recommended exposure limit is exceeded or when working with this material in a confined space. |
| Ventilation: | Use explosion proof ventilation to control vapor concentration. |
| Eye Protection: | Chemical resistant goggles or full face shield. |
| Protective Clothing: | Viton or Nitrile gloves. Wear long sleeve shirt or chemical protective suit and neoprene boots. |
| 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. Properly bond and ground containers and transferring equipment when transferring this product to different containers. | |
| Special Comments: This product is a combustible liquid. Avoid breathing vapors. Avoid prolonged or repeated skin contact. Remove contaminated shoes and clothing, launder before reuse. Throw away shoes. Wash skin thoroughly with soap and water after handling. Keep away from food and feed products | |
| SECTION 10 – ADDITIONAL HEALTH AND TOXICOLOGICAL DATA | |
| HMIS & NFPA Ratings: Health = 2 Fire = 2 Reactivity = 1 | |
| Contaminated clothing should be disposed of properly and/or decontaminated before reuse. Under no circumstance 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 <3.815% of Naphthalene CAS #91-20-3, 0.00174% of Benzene CAS # 71-43-2 , and <3.3% of Ethylbenzene CAS# 100-41-4 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 <3.8152% of Naphthalene CAS #91-20-3, 0.00174% of Benzene CAS # 71-43-2 , and <3.3% of Ethylbenzene CAS# 100-41-4 and 0.029-0.29% which are chemicals know to the State of California to cause cancer and/or birth defects. | |
| For SARA Title III Information, see next page. | |
| This product is an IRC (ignitable, corrosive, reactive) substance under CERCLA. If 61 gallons of the material is spilled which will release 100lbs. of 2-Ethyl Hexyl 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. | |
| All of the ingredients of this product are on the US TSCA Inventory list and are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substance List. | |
| DOT Shipping Name: 55gallon drums: UN1993, Flammable Liquids, N.O.S., (Petroleum Distillates, Heavy Aromatic Naphtha, Light Aromatic Naphtha, 2-Ethylhexyl Nitrate, 2-Butoxyethanol),3,PG III | |
| DOT Shipping Name 2-2 1/2 gallon cases gallon cases: UN1993, Flammable Liquids, N.O.S., (Petroleum Distillates, Heavy Aromatic Naphtha, Light Aromatic Naphtha 2-Ethylhexyl Nitrate, 2-Butoxyethanol),3,PG III, | |
| DOT Shipping Name: Bulk: 275 and 330 gallon IBC: DOT Shipping Name : UN1993, Flammable Liquids, N.O.S., (Petroleum Distillates, Heavy Aromatic Naphtha, Light Aromatic Naphtha, 2-Ethylhexyl Nitrate, 2-Butoxyethanol),3,PG III, Marine Pollutant, (2-Ethylhexyl Nitrate, Naphthalene, 1,2,4 Trimethylbenzene, butyl phenols) | |
| DOT Shipping Name: Bulk: >350 gallons: DOT Shipping Name: UN1993, Flammable Liquids, N.O.S., (Petroleum Distillates, Heavy Aromatic Naphtha, Light Aromatic Naphtha, 2-Ethylhexyl Nitrate, 2-Butoxyethanol),3,PG III,RQ,(Naphthalene, Xylene), Marine Pollutant, (2-Ethylhexyl Nitrate, Naphthalene, 1,2,4 Trimethylbenzene, butyl phenols) | |
| IMDG Shipping Name 55 gallon drums: UN1993, Flammable Liquids, N.O.S., (Petroleum Distillates, Heavy Aromatic Naphtha, Light Aromatic Naphtha, 2-Ethylhexyl Nitrate, 2-Butoxyethanol),3,PG III, Marine Pollutant, (2-Ethylhexyl Nitrate, Naphthalene, 1,2,4 Trimethylbenzene, butyl phenols) | |
| IMDG Shipping Name: 2-2 1/2 gallon cases: UN1993, Flammable Liquids, N.O.S., (Petroleum Distillates, Heavy Aromatic Naphtha, Light Aromatic Naphtha, 2-Ethylhexyl Nitrate, 2-Butoxyethanol),3,PG III, Marine Pollutant, (2-Ethylhexyl Nitrate, Naphthalene, 1,2,4 Trimethylbenzene, butyl phenols) | |

SARA Title III Information

I. Section 302/304 Extremely Hazardous

| Component | CAS# | % | TPQ | RQ (lbs.) | TPQ (gal*) | RQ (gal*) |
|-----------|---------|---------|-----|-----------|------------|-----------|
| Benzene | 71-43-2 | 0.00174 | | 10 | | 74,074 |

II. CERCLA Section 102(a) & 302.4 Hazardous Substance & Section 313 Toxic Chemical

| Component | CAS# | % | RQ (lbs.) | RQ (gals.) |
|--------------|-----------|---------|-----------|------------|
| Benzene | 71-43-2 | 0.00174 | 10 | 74,074 |
| Xylene | 1330-20-7 | <2.23 | 100 | 553 |
| Ethylbenzene | 100-41-4 | <5.8 | 1000 | 2,222 |
| Naphthalene | 91-20-3 | <3.815 | 100 | 338 |
| Phenol | 108-95-2 | 0.035 | 1000 | 360,972 |

Section 313 Chemicals

| Component | CAS# | % |
|-----------------|-----------|---------|
| 2-Butoxyethanol | 111-76-2 | 8-12 |
| Benzene | 71-43-2 | 0.00174 |
| Xylene | 1330-20-7 | <2.23 |
| Ethylbenzene | 100-41-4 | <5.8 |
| Naphthalene | 91-20-3 | <3.815 |
| Phenol | 108-95-2 | 360,972 |

*Product RQ for Stationary Source to release Regulatory Requirement RQ as specified by CERCLA.

III. Title III Section 311 Hazard Categorization

| Acute | Chronic | Fire | Pressure | Reactivity |
|-------|---------|------|----------|------------|
| X | X | X | | X |

Although the information and recommendations set forth herein (hereafter referred to as information) are presented in good faith and believed to be accurate and factual as of the date hereof, Schaeffer Mfg. Company makes no representation as to the completeness or accuracy thereof. Information is supplied upon the condition that the person receiving the same will make their own determination as to its safety and suitability for their purposes prior to use. In no event will Schaeffer Mfg. Company be responsible for damages of any natures whatsoever resulting from the use or reliance upon information. **No representation or warranty, either expressed or implied, of merchantability or fitness for a particular purpose is made with respect to information of the product to which the information refers.**