

MATERIAL SAFETY DATA SHEET

Manufacturer: Schaeffer Mfg. Company		Emergency Response Number:				
Address: 102 Barton Street		314-865-4105 (24hr Emergency Response) or				
Address: St. Louis, MO 63104		800-325-9962				
SECTION 1 – PRODUCT INFORMATION						
Chemical Family: Petroleum Hydrocarbons			Trade Name: #139A Soy Shield Winterized			
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	0.4	50		50	
2-Ethyl Hexyl Nitrate	27247-96-7	8 – 15	8		NE	
Light Aromatic Solvent Naphtha	64742-95-6	4 – 10	50		50	
Amines, polyethylene poly-reaction products with succinic anhydride isobutylene derivatives	84605-20-9	4 – 8	NE		NE	
Methyl Soyate	67762-38-3	45 – 55	NE		NE	
Diethylene Glycol monomethyl ether	111-76-3	0.425	NE		NE	
Proprietary Polymers	Mixture	5 – 9	NE		NE	
Xylene	1330-20-7	1.4 – 2.4	100	434	100	435
Cumene	98-82-8	0.088	50	246	50	246
1,2,4 Trimethylbenzene	95-63-6	3.15 – 3.65	25		25	
Hydrotreated Heavy Naphtha	64742-48-9	14 – 18	NE		NE	
Ethylbenzene	100-41-4	1.75	100	434	100	435
Naphthalene	91-20-3	0.155	25		25	
Benzene	71-43-2	0.000155	10	32	10	32
2-Butoxyethanol	111-76-2	0.5 – 2	25	121	25	
Vinyl Acetate Monomer	108-05-4	0.05	35		10	
Section 3 – PHYSICAL DATA						
Boiling Point:	>300°F/148.89°C	Specific Gravity:			0.9005	
Vapor Pressure (mm, Hg):	Not Determined	% Volatile:			Not Determined	
Vapor Density (Air = 1):	Not Determined	Evaporation Rate: (=1)			Not Determined	
Solubility in Water:	Insoluble	pH:			Not Applicable	
Appearance and Odor: Tan to dark color, aromatic odor.						
SECTION 4 - FIRE AND EXPLOSION HAZARD DATA						
Flash Point (Method) °F/°C: 158°F/70°C PMCC (ASTM D-93)		Flammability Limits UEL & LEL ----Not Determined				
Extinguishing Media: Carbon dioxide foam, dry chemical foam or waterspray. Water or foam may cause frothing. Use water to cool fire exposed containers						
Special Fire Fighting Procedures: Recommended wearing self-contained breathing apparatus (SCBA). Keep fire exposed containers cool with waterspray.						
Unusual Fire & Explosion Hazards: Toxic fumes, gases or vapors may evolve on burning. Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Containers may rupture on heating. May undergo a self acceleration exothermic reaction if heated above 100°C/212°F, which causes a rapid rise in temperature and pressure. Oil soaked rags can cause spontaneous combustion if not handled properly. Before disposal, wash rags with soap and water and dry in a well -ventilated area.						
SECTION 5 - REACTIVITY HAZARD DATA						
STABILITY [X] STABLE [] UNSTABLE		Hazardous Decomposition [] WILL [X] WILL NOT OCCUR				
Conditions to Avoid: Open flame, electric arcs or other sources that may cause ignition.						
Incompatibility (Mat. to avoid): Strong oxidizers, acids, halogens and halogenated compounds.						
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, smoke, aldehydes and other products of incomplete combustion.						
Conditions to Avoid: None						
SECTION 6 - HEALTH HAZARD DATA						
Threshold Limit Value and Sources: 5.0/mg/m ³ for oil mist. OSHA & ACGIH.						
Acute Effects of Overexposure:						
Ingestion:	Ingestion may cause gastrointestinal irritation with upper abdominal pain, nausea, vomiting and diarrhea.					
Eye Contact:	Severe eye irritation with tearing, reddening and swelling of the eye and surrounding tissues.					
Skin Contact:	Prolonged and repeated contact with the skin may cause defatting of the skin and dermatitis. Symptoms may include redness, edema, drying, defatting and cracking of skin..					
Inhalation:	Inhalation of vapors can cause headache, dizziness, nausea and stupor.					
CHRONIC EFFECTS OF OVEREXPOSURE: Repeated overexposure to aromatic solvents may cause destruction of red blood cells with anemia, fever, jaundice and kidney and liver damage.						
Emergency and First Aid Procedures:						
Swallowing:	If conscious, give 2 glasses of water. Seek immediate medical attention. Do not induce vomiting.					
Skin:	Wash skin thoroughly with soap and water. Launder contaminated clothing. Throw away oil-soaked shoes. Seek medical attention if irritation persists.					
Inhalation:	Remove victim to fresh air. If breathing is labored administer oxygen. 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: Ventilate area. Avoid breathing vapors. If spill occurs indoors turn off air conditioning and/or heating system to prevent vapors from contaminating the entire building. Contain spills if possible. Immediately absorb spilled material with suitable absorbent material and pick up with non-sparking tools. Place into a hazardous waste container for disposal. Prevent entry into sewers and waterways. Avoid contact with skin, eyes and clothing. Evacuate all non-essential personnel. Personal protective equipment must be worn.	
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 considered to be an RCRA hazardous waste due to the presence of 0.023% Benzene D018 and its reactivity.	
SECTION 8 – SPECIAL PROTECTION INFORMATION	
Respiratory Protection:	If exposure limits are exceeded, use either a NIOSH/MSHA approved full face respirator with a combination organic vapor and high efficiency cartridge or a self-contained breathing apparatus. Use a self-contained breathing apparatus if working with material in a confined or enclosed space and for large clean up sites.
Ventilation:	Local exhaust to keep vapors below OSHA and ACGIH permissible exposure limits.
Eye Protection:	Chemical resistant goggles or face shield.
Protective Clothing:	Viton or neoprene gloves. Wear either a chemical protective suit or apron when potential for contact with this material exists. Long sleeve shirt. Chemically protected boots when necessary to avoid contaminating shoes. Do not wear rings, watches or similar apparel that could entrap the material and cause skin irritation.
SECTION 9 – SPECIAL PRECAUTIONS	
Precautions To Be Taken In Handling and Storage: Do not store near heat, spark, flame or strong oxidizers. Keep container closed when not in use.	
Special Comments: Avoid prolonged contact with skin, wash thoroughly with soap and water before eating, drinking, smoking or using toilet facilities.	
SECTION 10 – ADDITIONAL HEALTH AND TOXICOLOGICAL DATA	
HMIS & NFPA Ratings: Health = 2 Fire = 1 Reactivity = 1	
This product does not contain greater than 0.1% of any of the chemicals found on the National Toxicology Program's Annual List, IRAC's Monographs and OSHA's Subpart Z List.	
This product contains 0.000155% Benzene CAS #71-43-2 and 0.05% Vinyl Acetate Monomer CAS #108-05-4 which are listed on the State of California's Proposition 65 List as a potential cancer causing agent and reproductive toxin.	
This product is an IRC (ignitable, reactive, corrosive) substance under CERCLA. If 133 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.	
DOT Shipping Name: Bulk Only: NA1993, Combustible Liquids, N.O.S.,(2-Ethylhexyl Nitrate, Heavy Aromatic Solvent Naphtha),3, PG III, Marine Pollutant (2-Ethylhexyl Nitrate, 1,2,4, Trimethylbenzene, Naphthalene)	
For SARA Title III Information, see bottom of page.	
All of the components in this material are on the US TSCA Inventory and are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.	

SARA Title III Information

I. Section 302/304 Extremely Hazardous

Component	CAS#	%	RQ (lbs.)	RQ (gal*)
Benzene	71-43-2	0.000155	10	892,857.14
Vinyl Acetate Monomer	108-05-4	0.05	5000	1,334,294

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

Component	CAS#	%	RQ (lbs.)	RQ (gals.)
Benzene	71-43-2	0.000155	10	892,857.14
Xylene	1330-20-7	1.4-2.4	100	945
Cumene	98-82-6	0.088	5000	758,127
Ethylbenzene	100-41-4	1.75	1000	32,097.06
Naphthalene	91-20-3	0.155	100	8,612
Vinyl Acetate	108-05-4	0.05	5000	1,334,294

III. Section 313 Chemicals

Component	CAS#	%
Diethylene Glycol Monoethyl ether	111-76-3	0.425
Benzene	71-43-2	0.000155
Xylene	1330-20-7	1.4 – 2.4
Cumene	98-82-6	0.088
Ethylbenzene	100-41-4	1.75
Naphthalene	91-20-3	0.155
2-Butoxyethanol	111-76-2	0.5 – 2
1,2,4 Trimethylbenzene	95-63-6	1.35 – 1.65

*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

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