

Safety Data Sheet

BIOBOR EB®**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking****1.1 Product identifier**

Product Name • **Biobor EB®**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • Gasoline Additive

1.3 Details of the supplier of the safety data sheet

Manufacturer • Hammonds Fuel Additives, Inc.

6951 W Little York Rd
Houston, TX 77040
United States
www.biobor.com
sales@biobor.com

Telephone (General) • (800) 548-9166

1.4 Emergency telephone number

Manufacturer • Chemtrec - US - (800) 424-9300

Manufacturer • 001-703-527-3887 - Chemtrec INT

Section 2: Hazards Identification**EU/EEC**

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP

- Acute Toxicity Oral 3 - H301
- Aspiration 1 - H304
- Acute Toxicity Dermal 3 - H311
- Skin Irritation 2 - H315
- Eye Irritation 2 - H319
- Acute Toxicity Inhalation 3 - H331
- Carcinogenicity 2 - H351
- Specific Target Organ Toxicity Repeated Exposure 1 - H372
- Hazardous to the aquatic environment Chronic 2 - H411

DSD/DPD

- Toxic (T)
- Harmful (Xn)
- Irritant (Xi)
- Carcinogenic Substances - Category 3
- Dangerous to the Environment (N)
- R20/21/22, R36/38, R40, R48/23, R51, R53, R65

2.2 Label Elements

CLP

DANGER



- Hazard statements** • H301 - Toxic if swallowed
 H304 - May be fatal if swallowed and enters airways
 H311 - Toxic in contact with skin
 H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 H331 - Toxic if inhaled
 H351 - Suspected of causing cancer.
 H372 - Causes damage to organs through prolonged or repeated exposure.
 H411 - Toxic to aquatic life with long lasting effects

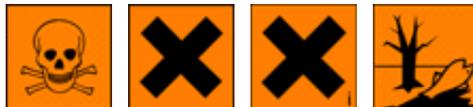
Precautionary statements

- Prevention** • P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P260 - Do not breathe mists, vapours, and/or spray.
 P264 - Wash thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 P271 - Use only outdoors or in a well-ventilated area.
 P273 - Avoid release to the environment.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P281 - Use personal protective equipment as required.
- Response** • P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P311 - Call a POISON CENTER or doctor/physician.
 P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
 P361 - Remove/Take off immediately all contaminated clothing.
 P363 - Wash contaminated clothing before reuse.
 P321 - Specific treatment, see supplemental first aid information.
 P332+P313 - If skin irritation occurs: Get medical advice/attention.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 - If eye irritation persists: Get medical advice/attention.
 P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P330 - Rinse mouth.
 P331 - Do NOT induce vomiting.
 P308+P313 - IF exposed or concerned: Get medical advice/attention.
 P314 - Get medical advice/attention if you feel unwell.
 P391 - Collect spillage.

- Storage/Disposal** • P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
 P405 - Store locked up.
 P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

- Supplemental information** • This product consists of an ingredient of unknown toxicity at 40-65 percent via the oral and dermal route and 40-69 percent via inhalation.

DSD/DPD



- Risk phrases** • R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.
 R36/38 - Irritating to eyes and skin.
 R40 - Limited evidence of a carcinogenic effect.
 R48/23 - Toxic: danger of serious damage to health by prolonged exposure through inhalation.
 R51 - Toxic to aquatic organisms.
 R53 - May cause long-term adverse effects in the aquatic environment.
 R65 - Harmful: may cause lung damage if swallowed.

- Safety phrases** • S26 - In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S36 - Wear suitable protective clothing.

S37 - Wear suitable gloves.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S53 - Avoid exposure - obtain special instructions before use.

S57 - Use appropriate containment to avoid environmental contamination.

2.3 Other Hazards

CLP • According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

DSD/DPD • According to European Directive 1999/45/EC this material is considered dangerous.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

- Flammable Liquids 4
- Acute Toxicity Oral 3
- Acute Toxicity Dermal 3
- Skin Irritation 2
- Eye Irritation 2
- Acute Toxicity Inhalation 3
- Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
- Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
- Germ Cell Mutagenicity 2
- Carcinogenicity 2
- Reproductive Toxicity 1B
- Specific Target Organ Toxicity Repeated Exposure 1

2.2 Label elements

OSHA HCS 2012

DANGER



- Hazard statements** • Combustible liquid
 Toxic if swallowed
 Toxic in contact with skin
 Causes skin irritation
 Causes serious eye irritation
 Toxic if inhaled
 May cause respiratory irritation
 May cause drowsiness or dizziness
 Suspected of causing genetic defects.
 Suspected of causing cancer.
 May damage fertility or the unborn child.
 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

- Prevention** • Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
 Do not breathe mists, vapours, and/or spray.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • In case of fire: Use appropriate media for extinction.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

If on skin: Wash with plenty of water .

Take off contaminated clothing and wash before reuse.

Specific treatment, see supplemental first aid information.

If skin irritation occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Rinse mouth.

IF exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

- Storage/Disposal** • Store in a well-ventilated place. Keep container tightly closed.
Keep cool.
Store locked up.

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

- Supplemental information** • This product consists of an ingredient of unknown toxicity at 40-65 percent via the oral and dermal route and 40-69 percent via inhalation.

2.3 Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to: WHMIS

2.1 Classification of the substance or mixture

WHMIS

- Combustible Liquids - B3
Very Toxic - D1A
Other Toxic Effects - D2A
Other Toxic Effects - D2B

2.2 Label elements

WHMIS



- Combustible Liquids - B3
Very Toxic - D1A
Other Toxic Effects - D2A
Other Toxic Effects - D2B

2.3 Other hazards

WHMIS

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance.

3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Stoddard solvent	CAS: 8052-41-3 EC Number: 232-489-3 EU Index: 649-345-00-4	40% TO 60%	Inhalation-Rat LC50 • >1400 ppm 8 Hour (s)	EU DSD/DPD: Annex VI, Table 3.2: Carc. Cat. 2, R45; Muta. Cat. 2, R46; Xn, R48/20, R65 EU CLP: Annex VI, Table 3.1: Muta. 1B, H340; Carc. 1B, H350; STOT RE 1, H372 (CNS); Asp. Tox. 1, H304 OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3: Narc.; STOT RE 1 (CNS); Asp. Tox. 1	NDA
Ethylene glycol monobutyl ether	CAS: 111-76-2 EC Number: 203-905-0 EU Index: 603-014-00-0	30% TO 60%	Inhalation-Rat LC50 • 450 ppm 4 Hour(s) Skin-Rabbit LD50 • 220 mg/kg Ingestion/Oral-Rat LD50 • 917 mg/kg	EU DSD/DPD: Annex VI, Table 3.2: Xn, R20/21/22; Xi, R36/38 EU CLP: Annex VI, Table 3.1: Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Skin Irrit. 2, H315; Eye Irrit. 2, H319 OSHA HCS 2012: Flam. Liq. 4; Acute Tox. 3 (orl); Acute Tox. 3 (skn); Acute Tox. 3 (inhl); Eye Irrit. 2; Repr. 2; STOT SE 3: Narc.; STOT SE 3: Resp. Irrit. (Orl); STOT RE 2 (Blood, Inhl, Orl, Skn)	NDA
Solvent naphtha (petroleum), light aromatic	CAS: 64742-95-6 EC Number: 265-199-0 EU Index: 649-356-00-4	< 10%	Ingestion/Oral-Rat LD50 • 8400 mg/kg	EU DSD/DPD: Annex VI, Table 3.2: Carc. Cat. 2, R45; Muta. Cat. 2, R46; Xn, R65 EU CLP: Annex VI, Table 3.1: Carc. 1B, H350; Muta. 1B, H340; Asp. Tox. 1, H304 OSHA HCS 2012: Eye Irrit. 2; Asp. Tox. 1	NDA
Polyolefin Alkyl Phenol Alkyl Amine	NDA	< 10%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
1,2,4-Trimethylbenzene	CAS: 95-63-6 EC Number: 202-436-9 EU Index: 601-043-00-3	1% TO 5%	Ingestion/Oral-Rat LD50 • 5 g/kg Inhalation-Rat LC50 • 18000 mg/m ³ 4 Hour (s)	EU DSD/DPD: Annex VI, Table 3.2: R10; Xn, R20; Xi, R36/37/38; N, R51, R53 EU CLP: Annex VI, Table 3.1: Flam. Liq. 3, H226; Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3: Resp. Irrit., H335; Skin Irrit. 2, H315; Aquatic Chronic 2, H411 OSHA HCS 2012: Flam. Liq. 3; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3: Narc.; STOT SE 3: Resp. Irrit. (inhl); Asp. Tox. 1	NDA
Xylene	CAS: 1330-20-7 EC Number: 215-535-7 EU Index: 601-022-00-9	< 2%	Ingestion/Oral-Rat LD50 • 4300 mg/kg Inhalation-Rat LC50 • 5000 ppm 4 Hour(s) Skin-Rabbit LD50 • >1700 mg/kg	EU DSD/DPD: Annex VI, Table 3.2: R10; Xn, R20/21; Xi, R38 EU CLP: Annex VI, Table 3.1: Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315 OSHA HCS 2012: Flam. Liq. 3; Acute Tox. 4 (Inhl); Skin Irrit. 2; Eye Irrit. 2; Repr. 1B (Inhl); STOT SE 3: Narc.; STOT SE 3: Resp. Irrit.	NDA
Naphthalene	CAS: 91-20-3 EC Number: 202-049-5 EU Index: 601-052-00-2	< 2%	Skin-Rabbit LD50 • >20 g/kg Ingestion/Oral-Rat LD50 • 490 mg/kg	EU DSD/DPD: Annex VI, Table 3.2: Carc. Cat. 3, R40; Xn, R22; N, R50, R53 EU CLP: Annex VI, Table 3.1: Carc. 2, H351; Acute Tox. 4, H302; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 OSHA HCS 2012: Flam. Sol. 2; Acute Tox. 4 (orl); Skin Irrit. 2; Muta. 2; Carc. 2; Repr. 2; STOT SE 3: Narc.; STOT RE 1 (Blood, Eyes; Orl, Inhl)	NDA
				EU DSD/DPD: Annex VI, Table 3.2: R10; Xi, R37;	

1,3,5-Trimethylbenzene	CAS: 108-67-8 EC Number: 203-604-4 EU Index: 601-025-00-5	< 2%	Inhalation-Rat LC50 • 24000 mg/m ³ 4 Hour(s) Ingestion/Oral-Rat LD50 • 5000 mg/kg	N, R51, R53 EU CLP: Annex VI, Table 3.1: Flam. Liq. 3, H226; STOT SE 3: Resp. Irrit., H335; Aquatic Chronic 2, H411 OSHA HCS 2012: Flam. Liq. 3; Eye Irrit. 2, Skin Irrit. 2, STOT SE 3: Resp. Irrit.; STOT SE 3: Narc.; Asp. Tox. 1	NDA
Benzene, propyl-	CAS: 103-65-1 EC Number: 203-132-9 EU Index: 601-024-00-X	< 1%	Ingestion/Oral-Rat LD50 • 6040 mg/kg Inhalation-Rat LC50 • 65000 ppm 2 Hour (s)	EU DSD/DPD: Annex VI, Table 3.2: R10; Xn, R65; Xi, R37; N, R51, R53 EU CLP: Annex VI, Table 3.1: Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3: Resp. Irrit., H335; Aquatic Chronic 2, H411 OSHA HCS 2012: Flam. Liq. 3; Asp. Tox. 1; STOT SE 3: Narc.	NDA
2-Ethylhexanol	CAS: 104-76-7 EC Number: 203-234-3	< 1%	Skin-Rabbit LD50 • 1970 mg/kg Ingestion/Oral-Rat LD50 • 3730 mg/kg	EU DSD/DPD: Xi; R36/37/38; Xn; R21; R67 EU CLP: Eye Irrit. 2, H319; Skin Irrit. 2, H315; Acute Tox. 4 (skn), H312; STOT SE 3: Resp. Irrit., H335; STOT SE 3: Narc., H336 OSHA HCS 2012: Flam. Liq. 4; Eye Irrit. 2; Skin Irrit. 2; Acute Tox. 4 (skn); STOT SE 3: Resp. Irrit. & Narc.	NDA
1-Methylethylbenzene	CAS: 98-82-8 EC Number: 202-704-5 EU Index: 601-024-00-X	< 1%	Ingestion/Oral-Rat LD50 • 1400 mg/kg Skin-Rabbit LD50 • 12300 µL/kg Inhalation-Rat LC50 • 8000 ppm	EU DSD/DPD: Annex VI, Table 3.2: R10; Xn, R65; Xi, R37; N, R51, R53 EU CLP: Annex VI, Table 3.1: Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3: Resp. Irrit., H335; Aquatic Chronic 2, H411 OSHA HCS 2012: Flam. Liq. 3; Acute Tox. 4 (orl); Skin Irrit. 2; Eye Irrit. 2; Carc. 2 (inhl); STOT SE 3: Narc.; STOT SE 3: Resp. Irrit. (inhl); Asp. Tox. 1	NDA
1,2,3-Trimethylbenzene	CAS: 526-73-8 EC Number: 208-394-8	< 1%	NDA	EU DSD/DPD: R10; R67 EU CLP: Flam. Liq. 3, H226; STOT SE 3: Narc., H336 OSHA HCS 2012: Flam. Liq. 3; STOT SE 3: Narc.	NDA

See Section 16 for full text of H-statements and R-phrases.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention if symptoms occur.

Skin

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Wash skin with soap and water. If irritation develops and persists, get medical attention.

Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

- Do NOT induce vomiting. Rinse mouth. Drink 2 - 4 cupfuls of water. Do not give anything by mouth to an unconscious person. Obtain medical attention immediately if ingested.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media • LARGE FIRES: Water spray, fog or alcohol-resistant foam.
SMALL FIRES: Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media • Do not use straight water stream.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • Containers may explode when heated.
Vapor explosion hazard indoors, outdoors or in sewers.
HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
Many liquids are lighter than water.
Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
Runoff to sewer may create fire or explosion hazard.
Vapors may form explosive mixtures with air.
Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products • Hazardous decomposition products are oxides of carbon and nitrogen including CO and CO₂.

5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA). Move containers from fire area if you can do it without risk.
LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions • Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Spills are extremely slippery.

Emergency Procedures • As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. LARGE SPILL: Consider initial downwind evacuation for at least 300 meters (1000 feet) ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Keep out of low areas.

6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures • Stop leak if you can do it without risk.
Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Use clean non-sparking tools to collect absorbed material.
A vapor suppressing foam may be used to reduce vapors.
All equipment used when handling the product must be grounded.
LARGE SPILLS: Dike far ahead of liquid spill for later disposal.
LARGE SPILLS: Water spray may reduce vapor; but may not prevent ignition in closed spaces.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal

Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Use only in well ventilated areas. Avoid contact with heat and ignition sources. Do not use sparking tools. Take precautionary measures against static charges. All equipment used when handling the product must be grounded. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner, or properly disposed of.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Keep container tightly closed. Store in a cool/low-temperature, well-ventilated dry place away from heat and ignition sources. Protect from direct sunlight.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
1-Methylethylbenzene (98-82-8)	TWAs	50 ppm TWA	50 ppm TWA; 245 mg/m ³ TWA	50 ppm TWA; 245 mg/m ³ TWA
1,2,3-Trimethylbenzene (526-73-8)	TWAs	Not established	25 ppm TWA; 125 mg/m ³ TWA	Not established
1,2,4-Trimethylbenzene (95-63-6)	TWAs	Not established	25 ppm TWA; 125 mg/m ³ TWA	Not established
Naphthalene (91-20-3)	TWAs	10 ppm TWA	10 ppm TWA; 50 mg/m ³ TWA	10 ppm TWA; 50 mg/m ³ TWA
	STELs	Not established	15 ppm STEL; 75 mg/m ³ STEL	Not established
Xylene (1330-20-7)	TWAs	100 ppm TWA	Not established	100 ppm TWA; 435 mg/m ³ TWA
	STELs	150 ppm STEL	Not established	Not established
1,3,5-Trimethylbenzene (108-67-8)	TWAs	Not established	25 ppm TWA; 125 mg/m ³ TWA	Not established
Ethylene glycol monobutyl ether (111-76-2)	TWAs	20 ppm TWA	5 ppm TWA; 24 mg/m ³ TWA	50 ppm TWA; 240 mg/m ³ TWA
Stoddard solvent (8052-41-3)	TWAs	100 ppm TWA	350 mg/m ³ TWA	500 ppm TWA; 2900 mg/m ³ TWA
	Ceilings	Not established	1800 mg/m ³ Ceiling (15 min)	Not established

8.2 Exposure controls

Engineering Measures/Controls

- Good general ventilation 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. Use explosion-proof electrical/ventilating/lighting/equipment.

Personal Protective Equipment

Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear chemical splash safety goggles.

Skin/Body

- Wear appropriate gloves. Wear long sleeves and/or protective coveralls.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

STEL = Short Term Exposure Limits are based on 15-minute exposures

NIOSH = National Institute of Occupational Safety and Health

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

OSHA = Occupational Safety and Health Administration

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description

Physical Form	Liquid	Appearance/Description	Amber liquid with aromatic hydrocarbon odor.
Color	Amber	Odor	Aromatic hydrocarbon.
Odor Threshold	Data lacking		

General Properties

Boiling Point	Data lacking	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	= 0.851 @ 60 F(15.5556 C) Water=1	Bulk Density	7.08 lbs/gal at 60 Deg F
Water Solubility	Data lacking	Viscosity	Data lacking
Explosive Properties	Data lacking	Oxidizing Properties:	Data lacking

Volatility

Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		

Flammability

Flash Point	63.9 C(147.02 F) PMCC (Pensky-Martins Closed Cup)	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		

Environmental

Octanol/Water Partition coefficient	Data lacking		
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9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Excess heat, sparks, open flame. Temperatures above 50°C (122°F) - 60°C (140°F).

10.5 Incompatible materials

- Avoid contact with strong oxidizing agents, such as nitric and sulfuric acids, halogens, hydrogen peroxide and chlorinating agents. May burn or react violently with fluorine/oxygen mixtures with 50-100% fluorine.

10.6 Hazardous decomposition products

- In the case of fire, a complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide, smoke and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

		Components
Stoddard solvent (40% TO 60%)	8052-41-3	<p>Acute Toxicity: Inhalation-Rat LC50 • >1400 ppm 8 Hour(s); Inhalation-Cat LCLo • 1700 ppm 7 Hour(s); <i>Behavioral:Tremor; Behavioral:Convulsions or effect on seizure threshold</i>; Inhalation-Rat LCLo • 8200 mg/m³ 8 Hour(s); <i>Behavioral:Tremor</i>;</p> <p>Irritation: Eye-Rabbit • 500 mg 24 Hour(s) • Moderate irritation;</p> <p>Multi-dose Toxicity: Inhalation-Rat TCLo • 330 ppm 65 Day(s)-Intermittent; <i>Kidney, Ureter, and Bladder:Changes in tubules (including acute renal failure, acute tubular necrosis)</i>; <i>Blood:Other changes</i>; Inhalation-Rat TCLo • 480 mg/m³ 65 Day(s)-Intermittent; <i>Blood:Normocytic anemia</i>; Inhalation-Rat TCLo • 1100 mg/m³ 65 Day(s)-Intermittent; <i>Kidney, Ureter, and Bladder:Renal function tests depressed</i>; <i>Blood:Normocytic anemia</i></p>
Ethylene glycol monobutyl ether (30% TO 60%)	111-76-2	<p>Acute Toxicity: Ingestion/Oral-Rat LD50 • 250 mg/kg; Ingestion/Oral-Man TDLo • 132 mg/kg; <i>Behavioral:Sleep; Kidney, Ureter, and Bladder:Hematuria; Nutritional and Gross Metabolic:Changes in Chemistry or Temperature:Metabolic acidosis</i>; Ingestion/Oral-Woman TDLo • 7813 µL/kg; <i>Behavioral:Coma; Vascular:BP lowering not characterized in autonomic section; Nutritional and Gross Metabolic:Changes in Chemistry or Temperature:Metabolic acidosis</i>; Skin-Rabbit LD50 • 220 mg/kg;</p> <p>Irritation: Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 500 mg-Open • Mild irritation;</p> <p>Multi-dose Toxicity: Inhalation-Monkey TCLo • 500 mg/m³ 7 Hour(s) 12 Week(s)-Intermittent; <i>Blood:Normocytic anemia; Blood:Changes in serum composition (e.g., TP, bilirubin cholesterol)</i>; Inhalation-Rat TCLo • 10 mg/m³ 90 Day(s)-Continuous; <i>Endocrine:Hypoglycemia; Blood:Normocytic anemia; Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain</i>; Inhalation-Rat TCLo • 10 mg/m³ 24 Hour(s) 13 Week(s)-Continuous; <i>Endocrine:Hypoglycemia; Blood:Changes in erythrocyte (RBC) count; Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:Transaminases</i>; Skin-Rabbit TDLo • 4500 µL/kg 9 Day(s)-Intermittent; <i>Liver:Changes in liver weight; Blood:Pigmented or nucleated red blood cells; Blood:Changes in erythrocyte (RBC) count</i>;</p> <p>Reproductive: Ingestion/Oral-Rat TDLo • 600 mg/kg (9-11D preg); <i>Reproductive Effects:Effects on Embryo or Fetus:Fetal death</i>; Inhalation-Rabbit TCLo • 200 ppm 6 Hour(s)(6-18D preg); <i>Reproductive Effects:Maternal Effects:Uterus, cervix, vagina; Reproductive Effects:Effects on Fertility:Pre-implantation mortality</i>; Inhalation-Rabbit TCLo • 100 ppm 6 Hour(s)(6-18D preg); <i>Reproductive Effects:Specific Developmental Abnormalities:Cardiovascular (circulatory) system</i>;</p> <p>Tumorigen / Carcinogen: Inhalation-Mouse TCLo • 250 ppm 6 Hour(s) 2 Year(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Liver:Tumors</i>; Inhalation-Rat TCLo • 125 ppm 6 Hour(s) 2 Year (s)-Intermittent; <i>Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Endocrine:Tumors</i></p>
		<p>Acute Toxicity: Ingestion/Oral-Rat LD50 • 8400 mg/kg; <i>Behavioral:Somnolence (general depressed</i></p>

Solvent naphtha (petroleum), light aromatic (< 10%)	64742-95-6	activity); Behavioral:Tremor; Lungs, Thorax, or Respiration:Other changes; Irritation: Eye-Rabbit • 100 µL 24 Hour(s) • Mild irritation; Reproductive: Inhalation-Rat TClO • 1500 ppm (9W male/9W pre-16D post); <i>Reproductive Effects:Effects on Newborn:Growth statistics (e.g., reduced weight gain)</i>
1,3,5-Trimethylbenzene (< 2%)	108-67-8	Acute Toxicity: Ingestion/Oral-Rat LD50 • 5000 mg/kg; Inhalation-Rat LC50 • 24000 mg/m³ 4 Hour(s); Irritation: Eye-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Skin-Rabbit • 20 mg 24 Hour(s) • Moderate irritation
Xylene (< 2%)	1330-20-7	Acute Toxicity: Ingestion/Oral-Rat LD50 • 4300 mg/kg; <i>Liver:Other changes; Kidney, Ureter, and Bladder:Other changes;</i> Inhalation-Rat LC50 • 5000 ppm 4 Hour(s); Inhalation-Man LCLo • 10000 ppm 6 Hour(s); <i>Behavioral:General anesthetic; Lungs, Thorax, or Respiration:Cyanosis; Blood:Other changes;</i> Inhalation-Human TClO • 200 ppm; <i>Sense Organs and Special Senses:Olfaction:Other changes; Sense Organs and Special Senses:Eye:Conjunctive irritation; Lungs, Thorax, or Respiration:Other changes;</i> Skin-Rabbit LD50 • >1700 mg/kg; Irritation: Eye-Rabbit • 5 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation; Reproductive: Inhalation-Mouse TClO • 1 g/m³ 12 Hour(s)(6-15D preg); <i>Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system;</i> Inhalation-Rat TClO • 50 mg/m³ 6 Hour(s)(1-21D preg); <i>Reproductive Effects:Effects on Fertility:Post-implantation mortality; Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Specific Developmental Abnormalities:Craniofacial (including nose and tongue)</i>
Naphthalene (< 2%)	91-20-3	Acute Toxicity: Ingestion/Oral-Rat LD50 • 490 mg/kg; Ingestion/Oral-Mouse TDLo • 158 mg/kg; <i>Brain and Coverings:Other degenerative changes; Liver:Other changes; Biochemical:Metabolism (intermediary):Lipids, including transport;</i> Inhalation-Human TClO • 250 mg/m³; <i>Sense Organs and Special Senses:Eye:Lacrimation; Behavioral:Headache;</i> Skin-Rabbit LD50 • >20 g/kg; Unreported-Guinea Pig LD50 • 1200 mg/kg; <i>Behavioral:Somnolence (general depressed activity);</i> Irritation: Skin-Rabbit • 0.05 mL 24 Hour(s) • Severe irritation; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 500 mg/kg 10 Day(s)-Intermittent; <i>Behavioral:Sleep; Lungs, Thorax, or Respiration:Dyspnea;</i> Ingestion/Oral-Rat TDLo • 4500 mg/kg 10 Day(s)-Intermittent; <i>Brain and Coverings:Other degenerative changes;</i> Mutagen: Specific locus test • Inhalation-Rat • 30 ppm 13 Week(s)-Intermittent; Micronucleus test • Unreported Route-Human • Lymphocyte (Somatic cell) • 30 mg/L; Reproductive: Ingestion/Oral-Mouse TDLo • 2400 mg/kg (7-14D preg); <i>Reproductive Effects:Effects on Newborn:Live birth index; Reproductive Effects:Effects on Newborn:Viability index (e.g., # alive at day 4 per # born alive);</i> Ingestion/Oral-Rat TDLo • 4500 mg/kg (6-15D preg); <i>Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Specific Developmental Abnormalities:Other developmental abnormalities;</i> Tumorigen / Carcinogen: Inhalation-Rat TClO • 1575 mg/kg 105 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Sense Organs and Special Senses:Olfaction:Tumors;</i> Inhalation-Rat TClO • 30 ppm 6 Hour(s) 105 Week(s)-Intermittent; <i>Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Sense Organs and Special Senses:Olfaction:Tumors;</i> Inhalation-Rat TClO • 60 ppm 6 Hour(s) 105 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Sense Organs and Special Senses:Olfaction:Tumors</i>
1,2,4-Trimethylbenzene (1% TO 5%)	95-63-6	Acute Toxicity: Ingestion/Oral-Rat LD50 • 5 g/kg; Inhalation-Rat LC50 • 18000 mg/m³ 4 Hour(s); Multi-dose Toxicity: Inhalation-Rat TClO • 100 ppm 6 Hour(s) 20 Day(s)-Intermittent; <i>Behavioral:Changes in motor activity (specific assay); Behavioral:Analgesia; Behavioral:Alteration of operant conditioning;</i> Inhalation-Rat TClO • 20 mg/m³ 16 Week(s)-Continuous; <i>Kidney, Ureter, and Bladder:Other changes in urine composition</i>
1-Methylethylbenzene (< 1%)	98-82-8	Acute Toxicity: Ingestion/Oral-Rat LD50 • 1400 mg/kg; <i>Gastrointestinal:Gastritis;</i> Inhalation-Rat LC50 • 39000 mg/m³ 4 Hour(s); Inhalation-Human TClO • 200 ppm; <i>Behavioral:Somnolence (general depressed activity); Behavioral:Antipsychotic; Behavioral:Irritability;</i> Inhalation-Mouse TClO • 5150 mg/m³ 2 Hour(s); <i>Behavioral:General anesthetic;</i> Inhalation-Rat TClO • 300 ppm 30 Minute(s); <i>Lungs, Thorax, or Respiration:Respiratory depression;</i> Skin-Rabbit LD50 • 12300 µL/kg; Irritation: Eye-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Skin-Rabbit • 10 mg 24 Hour(s)-Open • Mild irritation; Multi-dose Toxicity: Inhalation-Mouse TClO • 2000 mg/m³ 14 Week(s)-Continuous; <i>Behavioral:Somnolence (general depressed activity);</i> Inhalation-Rabbit TClO • 10000 mg/m³ 2 Hour(s) 24 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Acute pulmonary edema; Blood:Hemorrhage; Blood:Changes in leucocyte (WBC) count;</i> Inhalation-Rat TClO • 1200 ppm 6 Hour(s) 13 Week(s)-Intermittent; <i>Sense Organs and Special Senses:Eye:Other; Behavioral:Changes in motor activity (specific assay); Blood:Pigmented or nucleated red blood cells;</i>

		Mutagen: Mutation in microorganisms • Unreported Route-Salmonella typhimurium • 100 µg/plate 3 Hour(s)(-S9)
1,2,3-Trimethylbenzene (< 1%)	526-73-8	Multi-dose Toxicity: Inhalation-Rat TLo • 100 ppm 6 Hour(s) 20 Day(s)-Intermittent; <i>Behavioral:Alteration of classical conditioning</i>
Benzene, propyl- (< 1%)	103-65-1	Acute Toxicity: Ingestion/Oral-Rat LD50 • 6040 mg/kg; <i>Behavioral:Somnolence (general depressed activity);</i> Inhalation-Rat LC50 • 65000 ppm 2 Hour(s); Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 10.18 g/kg 2 Week(s)-Intermittent; <i>Sense Organs and Special Senses:Ear:Changes in cochlear structure or function</i>
2-Ethylhexanol (< 1%)	104-76-7	Acute Toxicity: Ingestion/Oral-Rat LD50 • 3730 mg/kg; Skin-Rabbit LD50 • 1970 mg/kg; Irritation: Eye-Rabbit • 20 mg • Severe irritation; Skin-Rabbit • 0.5 mL • Severe irritation; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 2970 mg/kg 9 Day(s)-Intermittent; <i>Behavioral:Changes in motor activity (specific assay); Behavioral:Ataxia; Behavioral:Muscle contraction or spasticity;</i> Reproductive: Ingestion/Oral-Rat TDLo • 1628 mg/kg (12D preg); <i>Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system; Reproductive Effects:Specific Developmental Abnormalities:Urogenital system;</i> Tumorigen / Carcinogen: Ingestion/Oral-Mouse TDLo • 270000 mg/kg 72 Week(s)-Intermittent; <i>Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Liver:Tumors; Tumorigenic:Increased incidence of tumors in susceptible strains</i>

GHS Properties	Classification
Respiratory sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Serious eye damage/Irritation	EU/CLP • Eye Irritation 2 OSHA HCS 2012 • Eye Irritation 2
Acute toxicity	EU/CLP • Acute Toxicity - Dermal 3 - ATEmix (dermal) = 230 mg/kg; Acute Toxicity - Inhalation 3 - ATEmix (inhl) = 2.4 mg/L(4hr-V) ; Acute Toxicity - Oral 3 - ATEmix (oral) = 258 mg/kg OSHA HCS 2012 • Acute Toxicity - Dermal 3 - ATEmix (dermal) = 225 mg/kg ; Acute Toxicity - Inhalation 3 - ATEmix (inhl) = 2.4 mg/L(4hr-V); Acute Toxicity - Oral 3 - ATEmix (oral) = 258 mg/kg
Aspiration Hazard	EU/CLP • Aspiration 1 OSHA HCS 2012 • Data lacking
Carcinogenicity	EU/CLP • Carcinogenicity 2 OSHA HCS 2012 • Carcinogenicity 2
Skin corrosion/Irritation	EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2
Skin sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
STOT-RE	EU/CLP • Specific Target Organ Toxicity Repeated Exposure 1 OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1
STOT-SE	EU/CLP • Data lacking OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
Toxicity for Reproduction	EU/CLP • Data lacking OSHA HCS 2012 • Toxic to Reproduction 1B
Germ Cell Mutagenicity	EU/CLP • Data lacking OSHA HCS 2012 • Germ Cell Mutagenicity 2

Potential Health Effects Inhalation

Acute (Immediate)

- Toxic if inhaled. May cause respiratory irritation. May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.

Chronic (Delayed)

- No data available.

Skin**Acute (Immediate)**

- Toxic in contact with skin. Causes skin irritation.

Chronic (Delayed)

- Prolonged or repeated contact may dry the skin and lead to irritation (i.e. dermatitis)

Eye**Acute (Immediate)**

- Causes serious eye irritation.

Chronic (Delayed)

- No data available.

Ingestion**Acute (Immediate)**

- Toxic if swallowed. Material may be aspirated into lungs during ingestion and/or subsequent vomiting. Aspiration of this material will cause severe lung injury, chemical pneumonitis, pulmonary edema or death.

Chronic (Delayed)

- No data available.

Other**Chronic (Delayed)**

- Chronic exposure of workers to naphthalene has been reported to cause cataracts and retinal hemorrhage. Exposure to a large amount of naphthalene may cause hemolytic anemia. Excessive exposure to Ethylene glycol monobutyl ether (111-76-2) by any route may cause abnormal blood picture characterized by erythropenia, reticulocytosis, granulocytosis, and leucocytosis. Somewhat more intense exposure would be likely to cause fragility of erythrocytes and hematuria. Repeated or prolonged exposure to stoddard solvent may cause damage to the central nervous system.

Mutagenic Effects

- Repeated and prolonged exposure may cause mutagenic effects.

Carcinogenic Effects

- Repeated and prolonged exposure may cause cancer.

Carcinogenic Effects			
	CAS	IARC	NTP
1-Methylethylbenzene	98-82-8	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen
Naphthalene	91-20-3	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen

Reproductive Effects

- Repeated and prolonged exposure may cause reproductive effects.

Key to abbreviations

LC = Lethal Concentration

LD = Lethal Dose

TC = Toxic Concentration

TD = Toxic Dose

Section 12 - Ecological Information**12.1 Toxicity**

Biobor EB®					
Dosage	Species	Duration	Results	Exposure Conditions	Comments
0.213 mg/L	Fish: Melanotaeni a fluviatilis (Chrimson-Spotted Rainbowfish)	96 Hour (s)	LC50	NDA	Naphthalene (91-20-3)
136 mg/L	Crustacea: Daphnia magna (Water Flea)	48 Hour (s)	EC50	NDA	Naphthalene (91-20-3)
1 mg/L	Crustacea: Daphnia magna (Water Flea)	48 Hour (s)	NOEC	NDA	Naphthalene (91-20-3)

4.15 mg/L	Aquatic Plant(s): Scenedesmus subspicatus (Green Algae)	7 Day(s)	NOEC	NDA	Naphthalene (91-20-3)
7.72 mg/L	Fish: Pimephales promelas (Fathead Minnow)	96 Hour (s)	LC50	NDA	1,2,4-Trimethylbenzene (95-63-6)
3.6063 mg/L	Crustacea: Daphnia magna (Water Flea)	48 Hour (s)	EC50	NDA	1,2,4-Trimethylbenzene (95-63-6)
2.6 mg/L	Aquatic Plant(s): Pseudokirchneriella subcapitata (Green Algae)	72 Hour (s)	EC50	NDA	1-Methylethylbenzene (98-82-8)
7.4 mg/L	Crustacea: Artemia sp.(Brine Shrimp)	48 Hour (s)	EC50	NDA	1-Methylethylbenzene (98-82-8)
2.7 mg/L	Fish: Pimephales promelas (Fathead Minnow)	96 Hour (s)	LC50	NDA	1-Methylethylbenzene (98-82-8)
1.8 mg/L	Aquatic Plant(s): Green Algae	3 Day(s)	EC50	NDA	Benzene, propyl- (103-65-1)
1.55 mg/L	Fish: Rainbow trout	4 Day(s)	LC50	NDA	Benzene, propyl- (103-65-1)

- Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

- No data is available on this product.

12.3 Bioaccumulative potential

- No data is available on this product.

12.4 Mobility in Soil

- No data is available on this product.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NA1993	Combustible liquid, n.o.s. (Contain EG Monbutyl Ether, Petroleum Naphtha)	3	III	NDA
TDG	UN1993	FLAMMABLE LIQUID, N.O.S. (Contain EG Monbutyl Ether, Petroleum Naphtha)	3	III	NDA
IMO/IMDG	UN1993	FLAMMABLE LIQUID, N.O.S. (Contain EG Monbutyl Ether, Petroleum Naphtha)	3	III	NDA
IATA/ICAO	UN1993	Flammable liquid, n.o.s. (Contain EG Monbutyl Ether, Petroleum Naphtha)	3	III	NDA

14.6 Special precautions for user • None specified.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • Data lacking.

14.8 Other information

DOT • This material is not regulated for US DOT transportation in quantities less than 119 Gallons. If shipping overseas, or via air, the proper shipping name is: Flammable liquid, n.o.s.. (Contains Ethylene Glycol Monobutyl Ether, Petroleum Naptha), 3, UN1993, PGIII.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute, Chronic, Fire

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
1,2,3-Trimethylbenzene	526-73-8	Yes	No	Yes	No	Yes
1,2,4-Trimethylbenzene	95-63-6	Yes	No	Yes	No	Yes
1,3,5-Trimethylbenzene	108-67-8	Yes	No	Yes	No	Yes
1-Methylethylbenzene	98-82-8	Yes	No	Yes	No	Yes
2-Ethylhexanol	104-76-7	Yes	No	Yes	No	Yes
Benzene, propyl-	103-65-1	Yes	No	Yes	No	Yes
Ethylene glycol monobutyl ether	111-76-2	Yes	No	Yes	No	Yes
Naphthalene	91-20-3	Yes	No	Yes	No	Yes
Solvent naphtha (petroleum), light aromatic	64742-95-6	Yes	No	Yes	No	Yes
Stoddard solvent	8052-41-3	Yes	No	Yes	No	Yes
Xylene	1330-20-7	Yes	No	Yes	No	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Benzene, propyl-	103-65-1	B2
• 1,2,3-Trimethylbenzene	526-73-8	B3
• Naphthalene	91-20-3	B4, D2A
• Ethylene glycol monobutyl ether	111-76-2	B3, D1A, D2B
• 1-Methylethylbenzene	98-82-8	B2, D2A
• Stoddard solvent	8052-41-3	B3, D2B
• Xylene	1330-20-7	B2, D2A, D2B
• 1,2,4-Trimethylbenzene	95-63-6	B3
• Solvent naphtha (petroleum), light aromatic	64742-95-6	B3, D2B

• 2-Ethylhexanol	104-76-7	B3, D2B
• 1,3,5-Trimethylbenzene	108-67-8	B3

Canada - WHMIS - Ingredient Disclosure List

• Benzene, propyl-	103-65-1	Not Listed
• 1,2,3-Trimethylbenzene	526-73-8	1 %
• Naphthalene	91-20-3	1 %
• Ethylene glycol monobutyl ether	111-76-2	1 %
• 1-Methylethylbenzene	98-82-8	1 %
• Stoddard solvent	8052-41-3	1 %
• Xylene	1330-20-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	0.1 %
• Solvent naphtha (petroleum), light aromatic	64742-95-6	Not Listed
• 2-Ethylhexanol	104-76-7	1 %
• 1,3,5-Trimethylbenzene	108-67-8	0.1 %

Environment

Canada - CEPA - Priority Substances List

• Benzene, propyl-	103-65-1	Not Listed
• 1,2,3-Trimethylbenzene	526-73-8	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Priority Substance List 2 (substance considered toxic, added to CEPA's Schedule 1, List of Toxic Substances)
• 1-Methylethylbenzene	98-82-8	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Priority Substance List 1 (substance not considered toxic)
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Solvent naphtha (petroleum), light aromatic	64742-95-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Benzene, propyl-	103-65-1	Not Listed
• 1,2,3-Trimethylbenzene	526-73-8	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Solvent naphtha (petroleum), light aromatic	64742-95-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Benzene, propyl-	103-65-1	Not Listed
• 1,2,3-Trimethylbenzene	526-73-8	Not Listed
• Naphthalene	91-20-3	Not Listed

• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Solvent naphtha (petroleum), light aromatic	64742-95-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Benzene, propyl-	103-65-1	Not Listed
• 1,2,3-Trimethylbenzene	526-73-8	Not Listed
• Naphthalene	91-20-3	
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	(isomers and mixtures)
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Solvent naphtha (petroleum), light aromatic	64742-95-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Benzene, propyl-	103-65-1	Not Listed
• 1,2,3-Trimethylbenzene	526-73-8	Not Listed
• Naphthalene	91-20-3	100 lb final RQ; 45.4 kg final RQ
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	5000 lb final RQ; 2270 kg final RQ
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	100 lb final RQ; 45.4 kg final RQ
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Solvent naphtha (petroleum), light aromatic	64742-95-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Benzene, propyl-	103-65-1	Not Listed
• 1,2,3-Trimethylbenzene	526-73-8	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Solvent naphtha (petroleum), light aromatic	64742-95-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Benzene, propyl-	103-65-1	Not Listed
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• 1,2,3-Trimethylbenzene	526-73-8	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Solvent naphtha (petroleum), light aromatic	64742-95-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Benzene, propyl-	103-65-1	Not Listed
• 1,2,3-Trimethylbenzene	526-73-8	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Solvent naphtha (petroleum), light aromatic	64742-95-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Benzene, propyl-	103-65-1	Not Listed
• 1,2,3-Trimethylbenzene	526-73-8	Not Listed
• Naphthalene	91-20-3	0.1 % de minimis concentration
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	1.0 % de minimis concentration
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	1.0 % de minimis concentration
• 1,2,4-Trimethylbenzene	95-63-6	1.0 % de minimis concentration
• Solvent naphtha (petroleum), light aromatic	64742-95-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Benzene, propyl-	103-65-1	Not Listed
• 1,2,3-Trimethylbenzene	526-73-8	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Solvent naphtha (petroleum), light aromatic	64742-95-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• Benzene, propyl-	103-65-1	Not Listed
• 1,2,3-Trimethylbenzene	526-73-8	Not Listed
• Naphthalene	91-20-3	carcinogen, initial date 4/19/02
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	carcinogen, initial date 4/6/10
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Solvent naphtha (petroleum), light aromatic	64742-95-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Benzene, propyl-	103-65-1	Not Listed
• 1,2,3-Trimethylbenzene	526-73-8	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Solvent naphtha (petroleum), light aromatic	64742-95-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Benzene, propyl-	103-65-1	Not Listed
• 1,2,3-Trimethylbenzene	526-73-8	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Solvent naphtha (petroleum), light aromatic	64742-95-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Benzene, propyl-	103-65-1	Not Listed
• 1,2,3-Trimethylbenzene	526-73-8	Not Listed
• Naphthalene	91-20-3	5.8 µg/day NSRL
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Solvent naphtha (petroleum), light aromatic	64742-95-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Benzene, propyl-	103-65-1	Not Listed
• 1,2,3-Trimethylbenzene	526-73-8	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Solvent naphtha (petroleum), light aromatic	64742-95-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Benzene, propyl-	103-65-1	Not Listed
• 1,2,3-Trimethylbenzene	526-73-8	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Solvent naphtha (petroleum), light aromatic	64742-95-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

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

Section 16 - Other Information**Relevant Phrases (code & full text)**

- H226 - Flammable liquid and vapour
- H302 - Harmful if swallowed
- H312 - Harmful in contact with skin
- H332 - Harmful if inhaled
- H335 - May cause respiratory irritation
- H340 - May cause genetic defects.
- H350 - May cause cancer.
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects
- R10 - Flammable.
- R20 - Harmful by inhalation.
- R20/21 - Harmful by inhalation and in contact with skin.
- R21 - Harmful in contact with skin.
- R22 - Harmful if swallowed.
- R36/37/38 - Irritating to eyes, respiratory system and skin.
- R37 - Irritating to respiratory system.
- R38 - Irritating to skin.
- R45 - May cause cancer.
- R46 - May cause heritable genetic damage.
- R48/20 - Harmful: danger of serious damage to health by prolonged exposure through

inhalation.

R50 - Very toxic to aquatic organisms.

R67 - Vapours may cause drowsiness and dizziness.

Revision Date

- 12/August/2015

Preparation Date

- 16/January/2012

Disclaimer/Statement of Liability

- **USER'S RESPONSIBILITY:** A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be. **DISCLAIMER OF LIABILITY:** The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

Key to abbreviations

NDA = No data available
