Engineered Chemistry™

Material Safety Data Sheet

PARASOL II

1. Product and Company Identification

Material name	**PARASOL II**
Patent Number	Not available
Version No.	2
CAS #	Mixture
Product use	Paraffin Inhibitor
Manufacturer information	Clearwater International L.L.C. 100 Leetsdale Industrial Drive Leetsdale, PA 15056 US CHEMTREC 1-800-424-9300/703-527-3887
Emergency	CHEMTREC 1-800-424-9300/703-527-3887
Supplier information	Universal Well Services, Inc. 18360 Technology Drive Meadville, PA 16335 US

2. Hazards Identification

Emergency overview	Will be easily ignited by heat, spark or flames. Prolonged exposure may cause chronic effects.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Inhalation. Ingestion.
Eyes	Do not get this material in contact with eyes.
Skin	Do not get this material in contact with skin.
Inhalation	Toxic by inhalation. Prolonged inhalation may be harmful. May cause cancer by inhalation. Do not breathe dust/fume/gas/mist/vapors/spray.
Ingestion	Harmful if swallowed. May cause delayed lung damage. Do not ingest. Components of the product may be absorbed into the body by ingestion.
Target organs	Kidney. Central nervous system. Eyes. Liver. Lungs. Respiratory system. Skin.
Chronic effects	Shortness of breath. Edema. Jaundice. Liver injury may occur. Kidney injury may occur. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage.
Signs and symptoms	Discomfort in the chest. Shortness of breath. Narcosis. Decrease in motor functions. Behavioral changes. Cough. Edema. Liver enlargement. Jaundice. Proteinuria.
Potential environmental effects	Components of this product are hazardous to aquatic life. May cause long-term adverse effects in the environment.

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3. Composition / Information on Ingredients

Components	CAS #	Percent
Ethylbenzene	100-41-4	7 - 13
Solvent Naphtha	64742-88-7	40 - 70
Toluene	108-88-3	30 - 60
Xylenes	1330-20-7	15 - 40

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

Skin contact Wash off with soap and water. Get medical attention if irritation develops or persists.

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.

Ingestion If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice.

Notes to physician In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General advice If exposed or concerned: get medical attention/advice. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties Flammable by OSHA criteria. Containers may explode when heated. Runoff to sewer may cause fire or explosion hazard.

Extinguishing media

Suitable extinguishing media Foam. Dry chemical. Carbon dioxide (CO2).

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters

Specific hazards arising from the chemical Fire may produce irritating, corrosive and/or toxic gases.

Protective equipment and precautions for firefighters In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. 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. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Move containers from fire area if you can do it without risk. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

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6. Accidental Release Measures

Personal precautions

Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away. Stay upwind. Keep out of low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Should not be released into the environment.

Large Spills: Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

Never return spills in original containers for re-use.

7. Handling and Storage

Handling

Do not handle or store near an open flame, heat or other sources of ignition. Use only with adequate ventilation. Wash thoroughly after handling. Avoid prolonged exposure.

Storage

Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components	CAS #	TWA	STEL	Ceiling
Solvent Naphtha	64742-88-7	100 ppm	Not established	Not established
Toluene	108-88-3	20 ppm	Not established	Not established
Xylenes	1330-20-7	100 ppm	150 ppm	Not established
Ethylbenzene	100-41-4	100 ppm	125 ppm	Not established

OSHA

Components	CAS #	TWA	STEL	Ceiling
Solvent Naphtha	64742-88-7	100 ppm	Not established	Not established
Toluene	108-88-3	200 ppm	Not established	300 ppm
Xylenes	1330-20-7	100 ppm	Not established	Not established
Ethylbenzene	100-41-4	100 ppm	Not established	Not established

Engineering controls

Provide adequate ventilation.

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Personal protective equipment

Eye / face protection	Wear chemical goggles. Face-shield.
Skin protection	Wear chemical protective equipment that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Protective gloves.Impervious gloves.
Respiratory protection	Wear positive pressure self-contained breathing apparatus (SCBA). When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General hygeine considerations	When using do not eat or drink. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling and before eating.

9. Physical & Chemical Properties

Appearance	Not available
Color	clear
Odor	Aromatic.
Odor threshold	Not available
Physical state	Liquid.
Form	Liquid.
pH	9
Melting point	Not available
Freezing point	Not available
Boiling point	257 °F (125 °C) estimated
Flash point	61 °F (16.1 °C)
Evaporation rate	Not available
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	0.8528
Relative density	0.8527 g/cm3 estimated
Solubility (water)	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	669.2 °F (354 °C) estimated
Decomposition temperature	Not available
VOC	50 % estimated

10. Chemical Stability & Reactivity Information

Chemical stability	Risk of ignition. Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks.

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Incompatible materials Strong oxidizing agents.

Hazardous decomposition products Irritants. Toxic gas. May include oxides of sulphur. May include oxides of phosphorus.

Possibility of hazardous reactions Hazardous polymerization does not occur.

11. Toxicological Information

Acute effects

Acute LD50: 1845 mg/kg estimated, Rat, Oral
Acute LD50: 3264 mg/kg estimated, Rat, Dermal
Acute LC50: 8 mg/l/4h estimated, Rat, Inhalation

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

Ethylbenzene	100-41-4	Inhalation LC50 Rat: 17.2 mg/L/4H; Oral LD50 Rat:3500 mg/kg; Dermal LD50 Rabbit:15354 mg/kg
Solvent Naphtha	64742-88-7	Inhalation LC50 Rat: >5.28 mg/L/4H; Oral LD50 Rat: >5000 mg/kg; Dermal LD50 Rabbit: 3000 mg/kg
Toluene	108-88-3	Inhalation LC50 Rat: 12.5 mg/L/4H; Inhalation LC50 Rat:>26700 ppm/1H; Oral LD50 Rat:636 mg/kg; Dermal LD50 Rabbit:8390 mg/kg; Dermal LD50 Rat:12124 mg/kg
Xylenes	1330-20-7	Inhalation LC50 Rat: 5000 ppm/4H; Oral LD50 Rat: 4300 mg/kg; Dermal LD50 Rabbit: >1700 mg/kg

Sensitization Not expected to be hazardous by OSHA criteria.

Local effects Liver toxicity.

Chronic effects Hazardous by OSHA criteria. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects.

Subchronic effects Kidney injury may occur.

Carcinogenicity Hazardous by OSHA criteria.

ACGIH - Threshold Limits Values - Carcinogens

Ethylbenzene	100-41-4	A3 - Confirmed animal carcinogen with unknown relevance to humans
Toluene	108-88-3	A4 - Not Classifiable as a Human Carcinogen
Xylenes	1330-20-7	A4 - Not Classifiable as a Human Carcinogen

Neurological effects Hazardous by OSHA criteria.

Reproductive effects Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.

Teratogenicity Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.

Further information Symptoms may be delayed.

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12. Ecological Information

Ecotoxicity

LC50 34.05 mg/L estimated, Fish, 96.00 Hours,
EC50 15.54 mg/L estimated, Daphnia, 48.00 Hours,
IC50 62.5 mg/L estimated, Algae, 72.00 Hours,

Ecotoxicity - Freshwater Algae Data		
Ethylbenzene	100-41-4	72 Hr EC50 Selenastrum capricornutum: 4.6 mg/L; 96 Hr EC50 Selenastrum capricornutum: >438 mg/L
Solvent Naphtha	64742-88-7	96 Hr EC50 Selenastrum capricornutum: 450 mg/L
Toluene	108-88-3	96 Hr EC50 Selenastrum capricornutum: >433 mg/L
Ecotoxicity - Freshwater Fish Species Data		
Ethylbenzene	100-41-4	96 Hr LC50 Oncorhynchus mykiss: 14.0 mg/L [static]; 96 Hr LC50 Pimephales promelas: 9.09 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 150.0 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.2 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 32 mg/L [static]; 96 Hr LC50 Pimephales promelas: 48.5 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 9.6 mg/L [static]
Solvent Naphtha	64742-88-7	96 Hr LC50 Pimephales promelas: 800 mg/L [static]
Toluene	108-88-3	96 Hr LC50 Pimephales promelas: 25 mg/L [flow-through] (1 day old); 96 Hr LC50 Oncorhynchus mykiss: 24.0 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 24.0 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 13 mg/L [static]
Xylenes	1330-20-7	96 Hr LC50 Pimephales promelas: 13.4 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 8.05 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 16.1 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 26.7 mg/L [static
Ecotoxicity - Microtox Data		
Ethylbenzene	100-41-4	30 min EC50 Photobacterium phosphoreum: 9.68 mg/L; 24 Hr EC50 Nitrosomonas: 96 mg/L
Toluene	108-88-3	30 min EC50 Photobacterium phosphoreum: 19.7 mg/L
Xylenes	1330-20-7	24 hr EC50 Photobacterium phosphoreum: 0.0084 mg/L
Ecotoxicity - Water Flea Data		
Ethylbenzene	100-41-4	48 Hr EC50 Daphnia magna: 1.8-2.4 mg/L
Solvent Naphtha	64742-88-7	48 Hr EC50 Daphnia magna: >100 mg/L
Toluene	108-88-3	48 Hr EC50 water flea: 11.3 mg/L; 48 Hr EC50 water flea: 310 mg/L; 48 Hr EC50 Daphnia magna: 11.3 mg/L
Xylenes	1330-20-7	48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 Gammarus lacustris: 0.6 mg/L

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Environmental effects Harmful to aquatic life.

Ecotoxicity - Freshwater Algae Data

Ethylbenzene	100-41-4	72 Hr EC50 Selenastrum capricornutum: 4.6 mg/L; 96 Hr EC50 Selenastrum capricornutum: >438 mg/L
Solvent Naphtha	64742-88-7	96 Hr EC50 Selenastrum capricornutum: 450 mg/L
Toluene	108-88-3	96 Hr EC50 Selenastrum capricornutum: >433 mg/L

Ecotoxicity - Freshwater Fish Species Data

Ethylbenzene	100-41-4	96 Hr LC50 Oncorhynchus mykiss: 14.0 mg/L [static]; 96 Hr LC50 Pimephales promelas: 9.09 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 150.0 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.2 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 32 mg/L [static]; 96 Hr LC50 Pimephales promelas: 48.5 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 9.6 mg/L [static]
Solvent Naphtha	64742-88-7	96 Hr LC50 Pimephales promelas: 800 mg/L [static]
Toluene	108-88-3	96 Hr LC50 Pimephales promelas: 25 mg/L [flow-through] (1 day old); 96 Hr LC50 Oncorhynchus mykiss: 24.0 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 24.0 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 13 mg/L [static]
Xylenes	1330-20-7	96 Hr LC50 Pimephales promelas: 13.4 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 8.05 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 16.1 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 26.7 mg/L [static

Ecotoxicity - Microtox Data

Ethylbenzene	100-41-4	30 min EC50 Photobacterium phosphoreum: 9.68 mg/L; 24 Hr EC50 Nitrosomonas: 96 mg/L
Toluene	108-88-3	30 min EC50 Photobacterium phosphoreum: 19.7 mg/L
Xylenes	1330-20-7	24 hr EC50 Photobacterium phosphoreum: 0.0084 mg/L

Ecotoxicity - Water Flea Data

Ethylbenzene	100-41-4	48 Hr EC50 Daphnia magna: 1.8-2.4 mg/L
Solvent Naphtha	64742-88-7	48 Hr EC50 Daphnia magna: >100 mg/L
Toluene	108-88-3	48 Hr EC50 water flea: 11.3 mg/L; 48 Hr EC50 water flea: 310 mg/L; 48 Hr EC50 Daphnia magna: 11.3 mg/L
Xylenes	1330-20-7	48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 Gammarus lacustris: 0.6 mg/L

13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140 F

U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

Toluene	108-88-3	waste number U220
Xylenes	1330-20-7	waste number U239 (Ignitable waste, Toxic waste)

Disposal instructions Dispose of this material and its container at hazardous or special waste collection point. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Dispose in accordance with all applicable regulations.

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14. Transport Information

Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper shipping name	Flammable liquids, n.o.s. (Toluene, XYLENES (O-, M-, P-ISOMERS))
Hazard class	3
UN number	UN1993
Packing group	II
Additional information:	
Packaging non bulk	202
Packaging bulk	242
ERG number	128

Department of Transportation (DOT) Requirements

Bulk

Basic shipping requirements:

Proper shipping name	Flammable liquids, n.o.s. (Toluene, XYLENES (O-, M-, P-ISOMERS))
Hazard class	3
UN number	UN1993
Packing group	II
Additional information:	
Packaging non bulk	202
Packaging bulk	242
ERG number	128

Canadian Transportation of Dangerous Goods (TDG) Requirements

Basic shipping requirements:

Proper shipping name	FLAMMABLE LIQUID, N.O.S. (Toluene, XYLENES (O-, M-, P- ISOMERS))
Hazard class	3
UN number	UN1993
Packing group	II
Additional information:	
Special provisions	16
ERG number	128

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IMDG

Basic shipping requirements:

Proper shipping name	FLAMMABLE LIQUID, N.O.S. (XYLENES (O-, M-, P-ISOMERS), TOLUENE)
Hazard class	3
Subsidiary hazard class	•
UN number	1993
Packing group	II

IATA

Basic shipping requirements:

Proper shipping name	Flammable liquid, n.o.s. (Toluene, XYLENES (O-, M-, P-ISOMERS))
Hazard class	3
UN number	1993
Packing group	II

15. Regulatory Information

Labelling

Contains Ethylbenzene, Solvent Naphtha, Toluene, Xylenes

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

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

Ethylbenzene	100-41-4	0.1 % de minimis concentration
Toluene	108-88-3	1.0 % de minimis concentration
Xylenes	1330-20-7	1.0 % de minimis concentration

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

Toluene: 1000.0000
Xylenes (o-, m-, p- isomers): 100.0000
Ethylbenzene: 1000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

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Section 311 hazardous chemical	Yes

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

International regulations

Canada - WHMIS - Ingredient Disclosure List

Ethylbenzene	100-41-4	0.1 %
Toluene	108-88-3	1 %

IARC - Group 2B (Possibly Carcinogenic to Humans)

Ethylbenzene	100-41-4	Monograph 77 [2000]

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State regulations

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

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

Ethylbenzene	100-41-4	carcinogen, initial date 6/11/04

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

Toluene	108-88-3	developmental toxicity, initial date 1/1/91

U.S. - Massachusetts - Right To Know List

Ethylbenzene	100-41-4	Present
Toluene	108-88-3	Present
Xylenes	1330-20-7	Present

U.S. - Minnesota - Hazardous Substance List

Ethylbenzene	100-41-4	Present
Toluene	108-88-3	Skin
Xylenes	1330-20-7	Present (includes all isomers)

U.S. - New Jersey - Right to Know Hazardous Substance List

Ethylbenzene	100-41-4	sn 0851
Toluene	108-88-3	sn 1866
Xylenes	1330-20-7	sn 2014

U.S. - Pennsylvania - RTK (Right to Know) List

Ethylbenzene	100-41-4	Environmental hazard
Toluene	108-88-3	Environmental hazard
Xylenes	1330-20-7	Environmental hazard

U.S. - Rhode Island - Hazardous Substance List

Ethylbenzene	100-41-4	Toxic; Flammable
Toluene	108-88-3	Toxic (skin); Flammable (skin)
Xylenes	1330-20-7	Toxic (skin); Flammable (skin)

U.S. - Texas - Effects Screening Levels - Long Term

Ethylbenzene	100-41-4	46 ppb ESL (odor); 200 µg/m3 ESL (odor)
Toluene	108-88-3	50 ppb ESL; 188 µg/m3 ESL
Xylenes	1330-20-7	85 ppb ESL (odor); 370 µg/m3 ESL (odor)

U.S. - Texas - Effects Screening Levels - Short Term

Ethylbenzene	100-41-4	460 ppb ESL (odor); 2000 µg/m3 ESL (odor)
Toluene	108-88-3	500 ppb ESL; 1880 µg/m3 ESL
Xylenes	1330-20-7	850 ppb ESL (odor); 3700 µg/m3 ESL (odor)

16. Other Information

HMIS® ratings

Health: 2*
Flammability: 3
Physical hazard: 0

NFPA ratings

Health: 2
Flammability: 3
Instability: 0

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MSDS sections updated	Product and Company Identification: Product and Company Identification

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