



## Material Safety Data Sheet

# NDL 100

HEALTH	*	1
FLAMMABILITY		3
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

### 1. Product and Company Identification

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

### 2. Hazards Identification

<b>Emergency overview</b>	Will be easily ignited by heat, spark or flames. Prolonged exposure may cause chronic effects. Components of the product may be absorbed into the body by inhalation, ingestion and through the skin.
<b>OSHA regulatory status</b>	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
<b>Potential health effects</b>	
<b>Routes of exposure</b>	Ingestion. Inhalation. Skin contact.
<b>Eyes</b>	Eye contact may result in corneal injury. Contact may irritate or burn eyes. Do not get this material in contact with eyes.
<b>Skin</b>	Irritating to skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Do not get this material in contact with skin.
<b>Inhalation</b>	Prolonged inhalation may be harmful. Irritating to respiratory system. May cause cancer by inhalation. Do not breathe dust/fume/gas/mist/vapors/spray.
<b>Ingestion</b>	Harmful if swallowed. May cause delayed lung damage. Do not ingest. Components of the product may be absorbed into the body by ingestion.
<b>Target organs</b>	Kidney. Central nervous system. Eyes. Liver. Lungs. Respiratory system. Skin.
<b>Chronic effects</b>	Shortness of breath. Conjunctiva. 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. Prolonged skin contact may defat the skin and produce dermatitis.



**Signs and symptoms**

Discomfort in the chest. Shortness of breath. Corneal damage. Narcosis. Decrease in motor functions. Behavioral changes. Cough. Edema. Liver enlargement. Jaundice. Conjunctivitis. Proteinuria. Defatting of the skin. Rash. Irritation.

**Potential environmental effects**

Components of this product are hazardous to aquatic life. May cause long-term adverse effects in the environment.

**3. Composition / Information on Ingredients**

Components	CAS #	Percent
Toluene	108-88-3	30 - 60
Xylene	1330-20-7	30 - 60
Isopropyl alcohol	67-63-0	15 - 40
Ethylbenzene	100-41-4	10 - 30

**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. Alcohol foam. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water may be ineffective.

**Unsuitable extinguishing media**

Water may be ineffective. 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.

**6. Accidental Release Measures**

**Personal precautions**

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  
Methods for containment**

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

Components	CAS #	TWA	STEL	Ceiling
Toluene	108-88-3	20 ppm	Not established	Not established
Xylene	1330-20-7	100 ppm	150 ppm	Not established
Isopropyl alcohol	67-63-0	200 ppm	400 ppm	Not established
Ethylbenzene	100-41-4	100 ppm	125 ppm	Not established





**OSHA**

Components	CAS #	TWA	STEL	Ceiling
Toluene	108-88-3	200 ppm	Not established	300 ppm
Xylene	1330-20-7	100 ppm	Not established	Not established
Isopropyl alcohol	67-63-0	400 ppm	Not established	Not established
Ethylbenzene	100-41-4	100 ppm	Not established	Not established

**Engineering controls** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

**Personal protective equipment**

- Eye / face protection** Do not get this material in contact with eyes. Wear chemical goggles.
- Skin protection** Do not get this material in contact with skin. Protective gloves. Impervious gloves. Wear appropriate chemical resistant clothing.
- 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 hygiene considerations** Do not get this material in contact with eyes. Do not get this material in contact with skin. 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**

<b>Appearance</b>	Liquid.
<b>Color</b>	clear Red brown. light yellow
<b>Odor</b>	aromatic
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>pH</b>	6 - 8
<b>Melting point</b>	-94 °F (-70.39 °C) estimated
<b>Freezing point</b>	Not available
<b>Boiling point</b>	246.2 °F (119 °C) estimated
<b>Flash point</b>	69 °F (20.6 °C)
<b>Evaporation rate</b>	Not available
<b>Flammability</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Specific gravity</b>	0.86 - 0.9
<b>Relative density</b>	0.8799 g/cm3 estimated
<b>Solubility (water)</b>	Not available



<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Auto-ignition temperature</b>	870.8 °F (466 °C) estimated
<b>Decomposition temperature</b>	Not available
<b>VOC</b>	82 % estimated

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Risk of ignition. Stable at normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Irritants. Toxic gas. May include oxides of sulphur. May include oxides of phosphorus.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

## 11. Toxicological Information

<b>Acute effects</b>	Acute LD50: 1547 mg/kg estimated, Rat, Oral Acute LD50: 4879 mg/kg estimated, Rat, Dermal Acute LC50: 28 mg/l/4h estimated, Rat, Inhalation
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### 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
Isopropyl alcohol	67-63-0	Inhalation LC50 Rat: 72.6 mg/L/4H; Oral LD50 Rat:4396 mg/kg; Dermal LD50 Rat:12800 mg/kg; Dermal LD50 Rabbit:12870 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
Xylene	1330-20-7	Inhalation LC50 Rat: 5000 ppm/4H; Oral LD50 Rat: 4300 mg/kg; Dermal LD50 Rabbit: >1700 mg/kg

<b>Sensitization</b>	Not expected to be hazardous by OSHA criteria.	
<b>Local effects</b>	Contact may irritate or burn eyes. Liver toxicity. Irritating to skin. Irritating to respiratory system. Components of the product may be absorbed into the body through the skin.	
<b>Chronic effects</b>	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.	
<b>Subchronic effects</b>	Kidney injury may occur.	
<b>Carcinogenicity</b>	Hazardous by OSHA criteria.	
<b>ACGIH - Threshold Limits Values - Carcinogens</b>		
Ethylbenzene	100-41-4	A3 - Confirmed animal carcinogen with unknown relevance to humans
Isopropyl alcohol	67-63-0	A4 - Not Classifiable as a Human Carcinogen
Toluene	108-88-3	A4 - Not Classifiable as a Human Carcinogen
Xylene	1330-20-7	A4 - Not Classifiable as a Human Carcinogen
<b>Neurological effects</b>	Hazardous by OSHA criteria.	
<b>Reproductive effects</b>	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.	
<b>Teratogenicity</b>	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.	
<b>Epidemiology</b>	Hazardous by OSHA criteria.	
<b>Further information</b>	Symptoms may be delayed.	





## 12. Ecological Information

### Ecotoxicity

LC50 24.84 mg/L estimated, Fish, 96.00 Hours,  
EC50 12.04 mg/L estimated, Daphnia, 48.00 Hours,  
IC50 44.41 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
Isopropyl alcohol	67-63-0	96 Hr EC50 Scenedesmus subspicatus: >1000 mg/L; 72 Hr EC50 Scenedesmus subspicatus: >1000 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]
Isopropyl alcohol	67-63-0	96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 94900 mg/L [flow-through] (29 days old); 96 Hr LC50 Pimephales promelas: 61200 mg/L [flow-through] (31 days old)
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]
Xylene	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
Isopropyl alcohol	67-63-0	5 min EC50 Photobacterium phosphoreum: 35390 mg/L
Toluene	108-88-3	30 min EC50 Photobacterium phosphoreum: 19.7 mg/L
Xylene	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
Isopropyl alcohol	67-63-0	48 Hr EC50 Daphnia magna: 13299 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
Xylene	1330-20-7	48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 Gammarus lacustris: 0.6 mg/L





**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
Isopropyl alcohol	67-63-0	96 Hr EC50 Scenedesmus subspicatus: >1000 mg/L; 72 Hr EC50 Scenedesmus subspicatus: >1000 mg/L
Toluene	108-88-3	96 Hr EC50 Selenastrum capricornutum: >433 mg/L

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Isopropyl alcohol	67-63-0	96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 94900 mg/L [flow-through] (29 days old); 96 Hr LC50 Pimephales promelas: 61200 mg/L [flow-through] (31 days old)
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]
Xylene	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
Isopropyl alcohol	67-63-0	5 min EC50 Photobacterium phosphoreum: 35390 mg/L
Toluene	108-88-3	30 min EC50 Photobacterium phosphoreum: 19.7 mg/L
Xylene	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
Isopropyl alcohol	67-63-0	48 Hr EC50 Daphnia magna: 13299 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
Xylene	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
Xylene	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.



**14. Transport Information****Department of Transportation (DOT) Requirements****Basic shipping requirements:**

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

**Department of Transportation (DOT) Requirements****Bulk****Basic shipping requirements:**

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

**Canadian Transportation of Dangerous Goods (TDG) Requirements****Basic shipping requirements:**

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





**IMDG**

**Basic shipping requirements:**

**Proper shipping name** FLAMMABLE LIQUID, N.O.S. (XYLENES (O-, M-, P-ISOMERS), ISOPROPYL ALCOHOL)

**Hazard class** 3

**Subsidiary hazard class** •

**UN number** 1993

**Packing group** II



**IATA**

**Basic shipping requirements:**

**Proper shipping name** Flammable liquid, n.o.s. (XYLENES (O-, M-, P-ISOMERS), Isopropyl alcohol)

**Hazard class** 3

**UN number** 1993

**Packing group** II



**15. Regulatory Information**

**Labelling**

**Contains** Ethylbenzene, Isopropyl alcohol, Toluene, Xylene

**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.

**FEMA (Flavor and Extract Manufacturers Association) - FEMA Numbers**

Isopropyl alcohol 67-63-0 2929

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

Ethylbenzene	100-41-4	0.1 % de minimis concentration
Isopropyl alcohol	67-63-0	1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)
Toluene	108-88-3	1.0 % de minimis concentration
Xylene	1330-20-7	1.0 % de minimis concentration

**U.S. - FDA - Color Additives Conditionally Approved for Use in Foods**

Isopropyl alcohol 67-63-0 21 CFR 73.1

**U.S. - FDA - Direct Food Additives**

Isopropyl alcohol 67-63-0 21 CFR 172.515, 21 CFR 173.240, 21 CFR 173.340

**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)**

<b>Hazard categories</b>	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
<b>Section 302 extremely hazardous substance</b>	No
<b>Section 311 hazardous chemical</b>	Yes

**Inventory status**

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
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)	Yes
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 %
Isopropyl alcohol	67-63-0	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

Isopropyl alcohol 67-63-0 Present

Toluene 108-88-3 Present

Xylene 1330-20-7 Present

**U.S. - Minnesota - Hazardous Substance List**

Ethylbenzene 100-41-4 Present

Isopropyl alcohol 67-63-0 Present

Toluene 108-88-3 Skin

Xylene 1330-20-7 Present (includes all isomers)

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

Ethylbenzene 100-41-4 sn 0851

Isopropyl alcohol 67-63-0 sn 1076; sn 2381 (strong-acid process manufacture)

Toluene 108-88-3 sn 1866

Xylene 1330-20-7 sn 2014

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

Ethylbenzene 100-41-4 Environmental hazard

Isopropyl alcohol 67-63-0 Environmental hazard

Toluene 108-88-3 Environmental hazard

Xylene 1330-20-7 Environmental hazard

**U.S. - Rhode Island - Hazardous Substance List**

Ethylbenzene 100-41-4 Toxic; Flammable

Isopropyl alcohol 67-63-0 Toxic; Flammable

Toluene 108-88-3 Toxic (skin); Flammable (skin)

Xylene 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/m<sup>3</sup> ESL (odor)

Isopropyl alcohol 67-63-0 320 ppb ESL (odor); 785 µg/m<sup>3</sup> ESL (odor)

Toluene 108-88-3 50 ppb ESL; 188 µg/m<sup>3</sup> ESL

Xylene 1330-20-7 85 ppb ESL (odor); 370 µg/m<sup>3</sup> ESL (odor)

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

Ethylbenzene 100-41-4 460 ppb ESL (odor); 2000 µg/m<sup>3</sup> ESL (odor)

Isopropyl alcohol 67-63-0 3200 ppb ESL (odor); 7850 µg/m<sup>3</sup> ESL (odor)

Toluene 108-88-3 500 ppb ESL; 1880 µg/m<sup>3</sup> ESL

Xylene 1330-20-7 850 ppb ESL (odor); 3700 µg/m<sup>3</sup> ESL (odor)

**16. Other Information****HMIS® ratings**

Health: 1\*  
Flammability: 3  
Physical hazard: 0

**NFPA ratings**

Health: 1  
Flammability: 3  
Instability: 0





**Prepared by**

Amanda L. Ruston  
4420 South Flores Road  
Elmendorf, Texas 78112  
210-626-0850

**Disclaimer**

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