



Material Safety Data Sheet

PRO SPERSE

HEALTH	*	2
FLAMMABILITY		3
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

1. Product and Company Identification

Material name	PRO SPERSE
Patent Number	Not available
Revision date	March-30-2011
Version No.	4
CAS #	Mixture
Product use	Paraffin Control
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	Producers Service Corp. 109 South Graham St. Zanesville, OH 43701 US
Supplier emergency telephone number(s)	24hr customer Service 740-454-6253

2. Hazards Identification

Emergency overview	WARNING HIGHLY FLAMMABLE LIQUID AND VAPOR. HARMFUL OR FATAL IF SWALLOWED. Will be easily ignited by heat, spark or flames. Containers may explode when heated. Harmful if inhaled or absorbed through the skin. Irritating to eyes, respiratory system and skin. Components of the product may be absorbed into the body by inhalation, ingestion and through the skin. Prolonged exposure may cause chronic effects. May cause cancer. Toxic to aquatic organisms.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Eye contact. Skin contact. Inhalation. Ingestion.
Eyes	Contact causes severe eye irritation. Eye contact may result in corneal injury. Avoid contact with eyes.
Skin	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). Harmful if absorbed through the skin. Avoid contact with the skin.
Inhalation	Harmful if inhaled. Irritating to respiratory system. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination. Do not breathe dust/fume/gas/mist/vapors/spray.

**Ingestion**

Harmful if swallowed. This product may be fatal if it is swallowed. Irritating to mouth, throat, and stomach. Aspiration into lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia. Components of the product may be absorbed into the body by ingestion. Do not ingest.

Target organs

Central nervous system. Eyes. Kidney. Liver. Gastrointestinal tract. Lungs. Respiratory system. Skin.

Chronic effects

Shortness of breath. Liver injury may occur. Kidney injury may occur. May cause delayed lung damage. Prolonged skin contact may defat the skin and produce dermatitis. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage.

Signs and symptoms

Discomfort in the chest. Shortness of breath. Corneal damage. Narcosis. Decrease in motor functions. Behavioral changes. Cough. Defatting of the skin. Rash. Irritation.

Potential environmental effects

Toxic to aquatic organisms.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Ethoxylated Nonylphenol	68412-54-4	10 - 30
Toluene	108-88-3	40 - 70
Xylenes	1330-20-7	30 - 60
Ethylbenzene	100-41-4	15 - 40

4. First Aid Measures

First aid procedures**Eye contact**

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately.

Skin contact

Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. Get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.

Inhalation

Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.

Ingestion

Rinse mouth. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately.

Notes to physician

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

General advice

Take off contaminated clothing and shoes immediately. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Get medical attention if symptoms occur. 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. Vapors may travel to a source of ignition and flash back. Containers may explode when heated.



Extinguishing media

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

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

Use personal protective equipment. 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 out of low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment. Refer to special instructions/safety data sheets.

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Clean up in accordance with all applicable regulations. 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.

Other information

Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling

Do not handle or store near an open flame, heat or other sources of ignition. Vapors may form explosive mixtures with air. All equipment used when handling the product must be grounded. Use only with adequate ventilation. Wear personal protective equipment. Wash thoroughly after handling. Avoid prolonged exposure. Do not empty into drains. Avoid release to the environment.



Storage

Keep away from heat and sources of ignition (spark or flame). The pressure in sealed containers can increase under the influence of heat. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a closed container away from incompatible materials. Use care in handling/storage. Use appropriate container to avoid environmental contamination. Store in accordance with local/regional/national/international regulation.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components	CAS #	TWA	STEL	Ceiling
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
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

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

Personal protective equipment

Eye / face protection

Wear safety glasses with side shields. Wear chemical goggles.

Skin protection

Protective gloves. Wear suitable protective clothing. Closed-toe shoes recommended.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. A NIOSH- approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

General hygiene considerations

Do not get this material in your eyes, on your skin, or on your clothing. Wash hands before breaks and immediately after handling the product. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance

Clear.

Color

Colorless - light yellow.

Odor

Aromatic.

Odor threshold

Not available

Physical state

Liquid.

Form

Liquid.

pH

5.5 - 8 (50% soln)

Melting point

-76 °F (-60.33 °C) estimated

Freezing point

Not available



Boiling point	230 - 279 °F (110 - 137.2 °C)
Flash point	68 °F (20 °C)
Evaporation rate	Not available
Flammability	Not available.
Flammability limits in air, upper, % by volume	3.0672 % estimated
Flammability limits in air, lower, % by volume	0.432 % estimated
Vapor pressure	Not available
Vapor density	Heavier than air.
Specific gravity	0.88 - 0.91
Relative density	7.344 - 7.5943
Solubility (water)	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	807.8 °F (431 °C) estimated
Decomposition temperature	Not available
VOC	90 % estimated

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks. Avoid temperature extremes.
Incompatible materials	Strong oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Acute effects	Acute LD50: 1257 mg/kg estimated, Rat, Oral Acute LD50: 3977 mg/kg estimated, Rat, Dermal Acute LC50: 23 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
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; Inhalation LC50 Rat:47635 mg/L/4H; Oral LD50 Rat:4300 mg/kg; Dermal LD50 Rabbit:>1700 mg/kg

Sensitization	Not expected to be hazardous by OSHA criteria.
Local effects	Severe eye irritation. Irritating to respiratory system and skin. Harmful if swallowed. Harmful if inhaled or absorbed through the skin.
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. Liver injury may occur.



Carcinogenicity Hazardous by OSHA criteria. May cause cancer.

ACGIH - Threshold Limit 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.

Epidemiology Hazardous by OSHA criteria.

Further information Symptoms may be delayed.

12. Ecological Information

Ecotoxicity LC50 19.33 mg/L estimated, Fish, 96.00 Hours,
EC50 9.36 mg/L estimated, Daphnia, 48.00 Hours,
IC50 34.72 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
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]
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
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



Environmental effects

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
Toluene	108-88-3	96 Hr EC50 Selenastrum capricornutum: >433 mg/L

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Xylenes	1330-20-7	48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 Gammarus lacustris: 0.6 mg/L

Aquatic toxicity

Toxic to aquatic organisms.

13. Disposal Considerations

Waste codes

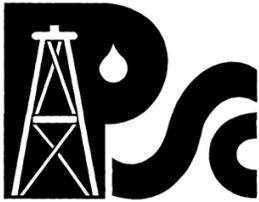
D001: Waste Flammable material with a flash point <140 F

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

Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/national/international regulations.



14. Transport Information

Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper shipping name	Flammable liquids, n.o.s. RQ (Xylenes) (Toluene)
Hazard class	3
UN number	UN1993
Packing group	II

Additional information:

Special provisions	IB2, T7, TP1, TP8, TP28
Packaging exceptions	150
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. RQ (Toluene, Xylenes)
Hazard class	3
UN number	UN1993
Packing group	II

Additional information:

Special provisions	IB2, T7, TP1, TP8, TP28
Packaging exceptions	150
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. RQ (TOLUENE, XYLENES)
Hazard class	3
UN number	UN1993
Packing group	II

Additional information:

Special provisions	16
ERG number	128





IMDG

Basic shipping requirements:

Proper shipping name	FLAMMABLE LIQUID, N.O.S. RQ (TOLUENE, XYLENES)
Hazard class	3
UN number	1993
Packing group	II



IATA

Basic shipping requirements:

Proper shipping name	Flammable liquid, n.o.s. (TOLUENE, XYLENES)
Hazard class	3
UN number	1993
Packing group	II



15. Regulatory Information

Labelling

Contains Ethoxylated Nonylphenol, Ethylbenzene, 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: 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



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

Prepared by

Product Stewardship
515 Post Oak Blvd
Houston, TX 77027
+1-713-968-2306



Disclaimer

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US, AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.

Issue date

March-30-2011

MSDS sections updated

This document has undergone significant changes and should be reviewed in its entirety.