

## Safety Data Sheet

## GenFlex Roofing Systems

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

**Product Name** • EZ TPO Cut Edge Sealant White

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

**Relevant identified use(s)** • Construction

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer** • Firestone Building Products Company  
250 West 96th Street  
Indianapolis, IN 46260  
United States

**Telephone (General)** • genflexmsds@bfpd.com  
800-428-4442

**1.4 Emergency telephone number**

**Manufacturer** • (800) 424-9300 - CHEMTREC

**Manufacturer** • (703) 527-3887 - CHEMTREC - International

**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**

- |                |  |
|----------------|--|
| <b>CLP</b>     | <ul style="list-style-type: none"><li>• Flammable Liquids 3 - H226</li><li>Aspiration 1 - H304</li><li>Acute Toxicity Dermal 4 - H312</li><li>Skin Irritation 2 - H315</li><li>Acute Toxicity Inhalation 4 - H332</li><li>Germ Cell Mutagenicity 1B - H340</li><li>Carcinogenicity 1B - H350</li></ul> |
| <b>DSD/DPD</b> | <ul style="list-style-type: none"><li>• Flammable</li><li>Harmful (Xn)</li><li>Irritant (Xi)</li><li>Mutagenic Substances - Category 2</li><li>Carcinogenic Substances - Category 2</li><li>R10, R20/21, R38, R45, R65</li></ul>   |

**2.2 Label Elements**

CLP

**DANGER**



- Hazard statements**
- H226 - Flammable liquid and vapour
  - H304 - May be fatal if swallowed and enters airways
  - H312 - Harmful in contact with skin
  - H315 - Causes skin irritation
  - H332 - Harmful if inhaled
  - H340 - May cause genetic defects.
  - H350 - May cause cancer.

## Precautionary statements

- Prevention**
- P201 - Obtain special instructions before use.
  - P202 - Do not handle until all safety precautions have been read and understood.
  - P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
  - P233 - Keep container tightly closed.
  - P240 - Ground and/or bond container and receiving equipment.
  - P241 - Use explosion-proof electrical/ventilating/lighting/equipment.
  - P242 - Use only non-sparking tools.
  - P243 - Take precautionary measures against static discharge.
  - P261 - Avoid breathing mist/vapours/spray.
  - P264 - Wash thoroughly after handling.
  - P271 - Use only outdoors or in a well-ventilated area.
  - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
  - P281 - Use personal protective equipment as required.
- Response**
- P370+P378 - In case of fire: Use appropriate media for extinction.
  - P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
  - P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P321 - Specific treatment, see supplemental first aid information.
  - P362 - Take off contaminated clothing and wash before reuse.
  - P363 - Wash contaminated clothing before reuse.
  - P332+P313 - If skin irritation occurs: Get medical advice/attention.
  - P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
  - P331 - Do NOT induce vomiting.
  - P308+P313 - IF exposed or concerned: Get medical advice/attention.
- Storage/Disposal**
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
  - P235 - Keep cool.
  - P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

- Supplemental information**
- 5 percent of this product consists of an ingredient of unknown oral toxicity.
  - 20 percent of this product consists of an ingredient of unknown inhalation toxicity.

## DSD/DPD



- Risk phrases**
- R10 - Flammable.
  - R20/21 - Harmful by inhalation and in contact with skin.
  - R38 - Irritating to skin.
  - R45 - May cause cancer.
  - R65 - Harmful: may cause lung damage if swallowed.
- Safety phrases**
- S23 - Do not breathe gas/fumes/vapour/spray.
  - S36 - Wear suitable protective clothing.
  - S53 - Avoid exposure - obtain special instructions before use.

## 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 3 - H226  
Aspiration 1 - H304  
Acute Toxicity Dermal 4 - H312  
Skin Irritation 2 - H315  
Eye Irritation 2 - H319  
Acute Toxicity Inhalation 4 - H332  
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335  
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336  
Carcinogenicity 2 - H351  
Reproductive Toxicity 2 - H361  
Specific Target Organ Toxicity Repeated Exposure 1 - H372

**2.2 Label elements****OSHA HCS 2012****DANGER**

- Hazard statements**
- Flammable liquid and vapour - H226  
May be fatal if swallowed and enters airways - H304  
Harmful in contact with skin - H312  
Causes skin irritation - H315  
Causes serious eye irritation - H319  
Harmful if inhaled - H332  
May cause respiratory irritation - H335  
May cause drowsiness or dizziness - H336  
Suspected of causing cancer. - H351  
Suspected of damaging fertility or the unborn child. - H361  
Causes damage to organs - liver/kidney through prolonged or repeated exposure - H372

**Precautionary statements**

- Prevention**
- Obtain special instructions before use. - P201  
Do not handle until all safety precautions have been read and understood. - P202  
Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. - P210  
Keep container tightly closed. - P233  
Ground and/or bond container and receiving equipment. - P240  
Use explosion-proof electrical/ventilating/lighting/equipment. - P241  
Use only non-sparking tools. - P242  
Take precautionary measures against static discharge. - P243  
Do not breathe mist/vapours/spray. - P260  
Wash thoroughly after handling. - P264  
Do not eat, drink or smoke when using this product. - P270  
Use only outdoors or in a well-ventilated area. - P271  
Wear protective gloves/protective clothing/eye protection/face protection. - P280
- Response**
- In case of fire: Use appropriate media for extinction. - P370+P378  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P340  
Call a POISON CENTER or doctor/physician if you feel unwell. - P312  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. - P303+P361+P353  
Specific treatment, see supplemental first aid information. - P321  
If skin irritation occurs: Get medical advice/attention. - P332+P313  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing. - P305+P351+P338  
 If eye irritation persists: Get medical advice/attention. - P337+P313  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. - P301+P310  
 Do NOT induce vomiting. - P331  
 IF exposed or concerned: Get medical advice/attention. - P308+P313  
 Get medical advice/attention if you feel unwell. - P314

**Storage/Disposal** • Store in a well-ventilated place. Keep container tightly closed. - P403+P233  
 Keep cool. - P235  
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

**Supplemental information** • 5 percent of this product consists of an ingredient of unknown toxicity.

## 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

- Flammable Liquids - B2  
 Other Toxic Effects - D2A  
 Other Toxic Effects - D2B

## 2.2 Label elements

### WHMIS



- Flammable Liquids - B2  
 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 in accordance with Regulation (EC) No 1272/2008.

### 3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Xylene	CAS:1330-20-7 EC Number:215-	50% TO 100%	Ingestion-Oral-Rat LD50 • 4300 mg/kg Inhalation-Rat LC50 • 5000 ppm 4 Hour(s)	EU DSD/DPD: Annex I: R10 Xn; R20/21 Xi; R38 EU CLP: Annex VI: Flam. Liq. 3, H225; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315 OSHA HCS 2012: Flam Liq. 3; Acute Tox. 4	NDA

	535-7		Skin-Rabbit LD50 • >1700 mg/kg	(Skin); Eye Irrit. 2; Skin Irrit. 2; Repr. 2; STOT SE 3: Resp. Irrit. & Narc.	
Stoddard solvent	CAS:8052-41-3 EC Number:232-489-3	5% TO 20%	Inhalation-Rat LC50 • >1400 ppm 8 Hour(s)	<b>EU DSD/DPD:</b> Annex I: Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65 <b>EU CLP:</b> Annex VI: Muta. 1B, H340; Carc. 1B, H350; Asp. Tox. 1, H304 <b>OSHA HCS 2012:</b> Flam. Liq. 3; Eye Irrit. 2A; Skin Irrit. 2; STOT RE 1 (Liver, Kidney); STOT SE 3: Narc.; Asp. Tox. 1	NDA
Ethylbenzene	CAS:100-41-4 EC Number:202-849-4	5% TO 20%	Ingestion/Oral-Rat LD50 • 3500 mg/kg Skin-Rabbit LD50 • 17800 µL/kg Inhalation-Rat LC50 • 55000 mg/m <sup>3</sup> 2 Hour(s)	<b>EU DSD/DPD:</b> Annex I: F; R11 Xn; R20 <b>EU CLP:</b> Annex VI: Flam. Liq. 2, H225; Acute Tox. 4, H332 <b>OSHA HCS 2012:</b> Flam. Liq. 2; Eye Irrit. 2A, Repr. 2.; Carc. 2; STOT SE 3: Resp. Irrit.; STOT SE 3: Narc.	NDA

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

#### Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

#### Skin

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Wash skin with soap and water. If skin irritation occurs: Get medical advice/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

- Get medical attention.

### 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, CO<sub>2</sub>, water spray or alcohol-resistant foam.

#### Unsuitable Extinguishing Media

- Do not use a direct stream of water.

### 5.2 Special hazards arising from the substance or mixture

#### Unusual Fire and Explosion Hazards

- HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Vapor explosion hazard indoors, outdoors or in sewers. 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. Dried solids can burn and release toxic fumes and vapors.

**Hazardous Combustion Products**

- No data available

**5.3 Advice for firefighters**

- No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if you can do it without risk. Structural firefighters' protective clothing will only provide limited protection. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Wear positive pressure self-contained breathing apparatus (SCBA).

## Section 6 - Accidental Release Measures

**6.1 Personal precautions, protective equipment and emergency procedures****Personal Precautions**

- Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist/vapours/spray. Avoid contact with skin, eyes, and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Emergency Procedures**

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). 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) Keep out of low areas. Stay upwind. Keep unauthorized personnel away. Ventilate closed spaces before entering.

**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. A vapor suppressing foam may be used to reduce vapors. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use clean non-sparking tools to collect absorbed material. All equipment used when handling the product must be grounded.

**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**

- Keep away from fire, sparks and heated surfaces. Use only in well ventilated areas. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with skin, eyes, and clothing. Do not breathe mist/vapours/spray. All equipment used when handling the product must be grounded. Prevent formation of aerosols. Bond and ground all transfer containers and equipment. Take precautionary measures against static charges. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations near container. Do not eat, drink or smoke when using this product. After handling wash hands thoroughly.

**7.2 Conditions for safe storage, including any incompatibilities****Storage**

- Store in a cool/low-temperature, well-ventilated place away from heat and ignition sources. Keep container tightly closed. Store away from oxidizing agents.

**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	Canada Alberta	Canada British Columbia	Canada Manitoba	Canada New Brunswick
Ethylbenzene (100-41-4)	STELs	Not established	125 ppm STEL; 543 mg/m <sup>3</sup> STEL	Not established	Not established	125 ppm STEL; 543 mg/m <sup>3</sup> STEL
	TWAs	20 ppm TWA	100 ppm TWA; 434 mg/m <sup>3</sup> TWA	20 ppm TWA	20 ppm TWA	100 ppm TWA; 434 mg/m <sup>3</sup> TWA
Stoddard solvent (8052-41-3)	TWAs	100 ppm TWA	100 ppm TWA; 572 mg/m <sup>3</sup> TWA	290 mg/m <sup>3</sup> TWA	100 ppm TWA	100 ppm TWA; 525 mg/m <sup>3</sup> TWA
	STELs	Not established	Not established	580 mg/m <sup>3</sup> STEL	Not established	Not established
Xylene (1330-20-7)	STELs	150 ppm STEL	150 ppm STEL; 651 mg/m <sup>3</sup> STEL	150 ppm STEL	150 ppm STEL	150 ppm STEL; 651 mg/m <sup>3</sup> STEL
	TWAs	100 ppm TWA	100 ppm TWA; 434 mg/m <sup>3</sup> TWA	100 ppm TWA	100 ppm TWA	100 ppm TWA; 434 mg/m <sup>3</sup> TWA
Exposure Limits/Guidelines (Con't.)						
	Result	Canada Northwest Territories	Canada Nova Scotia	Canada Nunavut	Canada Ontario	Canada Quebec
Ethylbenzene (100-41-4)	STELs	125 ppm STEL; 542 mg/m <sup>3</sup> STEL	Not established	125 ppm STEL; 542 mg/m <sup>3</sup> STEL	Not established	125 ppm STEV; 543 mg/m <sup>3</sup> STEV
	TWAs	100 ppm TWA; 434 mg/m <sup>3</sup> TWA	20 ppm TWA	100 ppm TWA; 434 mg/m <sup>3</sup> TWA	20 ppm TWA	100 ppm TWA EV; 434 mg/m <sup>3</sup> TWA EV
Stoddard solvent (8052-41-3)	STELs	125 ppm STEL; 720 mg/m <sup>3</sup> STEL	Not established	125 ppm STEL; 720 mg/m <sup>3</sup> STEL	Not established	Not established
	TWAs	100 ppm TWA; 575 mg/m <sup>3</sup> TWA	100 ppm TWA	100 ppm TWA; 575 mg/m <sup>3</sup> TWA	525 mg/m <sup>3</sup> TWA (140°C Flash aliphatic solvent)	100 ppm TWA EV; 525 mg/m <sup>3</sup> TWA EV
Xylene (1330-20-7)	STELs	150 ppm STEL; 652 mg/m <sup>3</sup> STEL	150 ppm STEL	150 ppm STEL; 652 mg/m <sup>3</sup> STEL	150 ppm STEL	150 ppm STEV; 651 mg/m <sup>3</sup> STEV
	TWAs	100 ppm TWA; 434 mg/m <sup>3</sup> TWA	100 ppm TWA	100 ppm TWA; 434 mg/m <sup>3</sup> TWA	100 ppm TWA	100 ppm TWA EV; 434 mg/m <sup>3</sup> TWA EV
Exposure Limits/Guidelines (Con't.)						
	Result	Canada Saskatchewan	Canada Yukon	NIOSH	OSHA	
Ethylbenzene (100-41-4)	TWAs	100 ppm TWA	100 ppm TWA; 435 mg/m <sup>3</sup> TWA	100 ppm TWA; 435 mg/m <sup>3</sup> TWA	100 ppm TWA; 435 mg/m <sup>3</sup> TWA	
	STELs	Not established	125 ppm STEL; 545 mg/m <sup>3</sup> STEL	125 ppm STEL; 545 mg/m <sup>3</sup> STEL	Not established	
Stoddard solvent (8052-41-3)	TWAs	100 ppm TWA	100 ppm TWA; 575 mg/m <sup>3</sup> TWA	350 mg/m <sup>3</sup> TWA	500 ppm TWA; 2900 mg/m <sup>3</sup> TWA	
	STELs	Not established	150 ppm STEL; 720 mg/m <sup>3</sup> STEL	Not established	Not established	
	Ceilings	Not established	Not established	1800 mg/m <sup>3</sup> Ceiling (15 min)	Not established	
Xylene	TWAs	100 ppm TWA	100 ppm TWA; 435 mg/m <sup>3</sup> TWA	Not established	100 ppm TWA; 435 mg/m <sup>3</sup> TWA	

(1330-20-7)	STELs	Not established	150 ppm STEL; 650 mg/m <sup>3</sup> STEL	Not established	Not established
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## 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 splash goggles.

#### Skin/Body

- Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves.

### Environmental Exposure Controls

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

#### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

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

STEV = Short Term Exposure Value

TWAEV = Time-Weighted Average Exposure Value

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

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	White, viscous liquid with a characteristic odor.
Color	White	Odor	Characteristic
Odor Threshold	Data lacking		
General Properties			
Boiling Point	137 C(278.6 F)	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	0.939 Water=1	Bulk Density	7.81 lbs/gal
Water Solubility	Immiscible	Viscosity	Data lacking
Explosive Properties	Not explosive.	Oxidizing Properties:	Not an oxidizer.
Volatility			
Vapor Pressure	6.7 hPa @ 20 C(68 F)	Vapor Density	Data lacking
Evaporation Rate	Data lacking	VOC (Wt.)	5.97 lbs/gal
Flammability			
Flash Point	30 C(86 F)	UEL	7 %
LEL	1.1 %	Autoignition	Data lacking
Flammability (solid, gas)	Flammable Liquid.		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

## 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

- Avoid flames, sparks, or other sources of ignition.

### 10.5 Incompatible materials

- Strong oxidizers, acids, and bases.

### 10.6 Hazardous decomposition products

- Carbon monoxide, carbon dioxide, aldehydes and hydrocarbons.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

Component Name	CAS	Data
Xylene (50% TO 100%)	1330-20-7	<b>Acute Toxicity:</b> orl-mam LD50:4300 mg/kg; ihl-rat LC50:5000 ppm/4H; skn-rbt LD50:>1700 mg/kg; <b>Reproductive:</b> ihl-rat TCLo:50 mg/m3/6H (1-21D preg)
Stoddard solvent (5% TO 20%)	8052-41-3	<b>Irritation:</b> eye-rbt 500 mg/24H MOD
Ethylbenzene (5% TO 20%)	100-41-4	<b>Acute Toxicity:</b> orl-rat LD50:3500 mg/kg; ihl-rat LC50:55000 mg/m3/2H; skn-rbt LD50:17800 uL/kg; <b>Irritation:</b> eye-rbt 500 mg SEV; skn-rbt 15 mg/24H open MLD; <b>Multi-dose Toxicity:</b> ihl-rbt TCLo:100 mg/m3/4H/30W-I

GHS Properties	Classification
<b>Acute toxicity</b>	<b>EU/CLP</b> • Acute Toxicity - Dermal 4; Acute Toxicity - Inhalation 4 <b>OSHA HCS 2012</b> • Acute Toxicity - Dermal 4; Acute Toxicity - Inhalation 4
<b>Aspiration Hazard</b>	<b>EU/CLP</b> • Aspiration 1 <b>OSHA HCS 2012</b> • Aspiration 1
<b>Carcinogenicity</b>	<b>EU/CLP</b> • Carcinogenicity 1B <b>OSHA HCS 2012</b> • Carcinogenicity 2
<b>Germ Cell Mutagenicity</b>	<b>EU/CLP</b> • Germ Cell Mutagenicity 1B <b>OSHA HCS 2012</b> • Classification criteria not met
<b>Skin corrosion/Irritation</b>	<b>EU/CLP</b> • Skin Irritation 2 <b>OSHA HCS 2012</b> • Skin Irritation 2
<b>Skin sensitization</b>	<b>EU/CLP</b> • Classification criteria not met <b>OSHA HCS 2012</b> • Classification criteria not met

<b>STOT-RE</b>	<b>EU/CLP</b> • Classification criteria not met <b>OSHA HCS 2012</b> • Specific Target Organ Toxicity Repeated Exposure 1
<b>STOT-SE</b>	<b>EU/CLP</b> • Classification criteria not met <b>OSHA HCS 2012</b> • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
<b>Toxicity for Reproduction</b>	<b>EU/CLP</b> • Classification criteria not met <b>OSHA HCS 2012</b> • Toxic to Reproduction 2
<b>Respiratory sensitization</b>	<b>EU/CLP</b> • Classification criteria not met <b>OSHA HCS 2012</b> • Classification criteria not met
<b>Serious eye damage/Irritation</b>	<b>EU/CLP</b> • Classification criteria not met <b>OSHA HCS 2012</b> • Eye Irritation 2

**Route(s) of entry/exposure** • Inhalation, Skin, Eye, Ingestion

## Potential Health Effects

### Inhalation

- Acute (Immediate)** • Harmful 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)** • Harmful in contact with skin. Causes skin irritation.
- Chronic (Delayed)** • No data available

### Eye

- Acute (Immediate)** • Causes serious eye irritation.
- Chronic (Delayed)** • No data available.

### Ingestion

- Acute (Immediate)** • Material may be aspirated into the 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)** • Prolonged or repeated exposure causes damage to liver and kidneys.

### Mutagenic Effects

- Repeated and prolonged exposure may cause mutagenic effects.

### Carcinogenic Effects

- May cause cancer.

Carcinogenic Effects		
	CAS	IARC
Ethylbenzene	100-41-4	Group 2B-Possible Carcinogen

### Reproductive Effects

- May cause adverse reproductive effects - such as birth defects, miscarriages or infertility based on animal data.

#### Key to abbreviations

LC = Lethal Concentration      MOD = Moderate  
LD = Lethal Dose                TC = Toxic Concentration  
MLD = Mild

## Section 12 - Ecological Information

### 12.1 Toxicity

- Material data lacking.

## 12.2 Persistence and degradability

- Material data lacking.

## 12.3 Bioaccumulative potential

- Material data lacking.

## 12.4 Mobility in Soil

- Material data lacking.

## 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	UN1133	Adhesives	3	III	NDA
TDG	UN1133	ADHESIVES	3	III	NDA
IMO/IMDG	UN1133	ADHESIVES	3	III	NDA
ADN	UN1133	ADHESIVES	3	III	NDA
ADR/RID	UN1133	ADHESIVES	3	III	NDA
IATA/ICAO	UN1133	Adhesives	3	III	NDA

### 14.6 Special precautions for user

- None known.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- Not relevant.

# Section 15 - Regulatory Information

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

**SARA Hazard Classifications** • Acute, Chronic, Fire

State Right To Know				
Component	CAS	MA	NJ	PA
Ethylbenzene	100-41-4	Yes	Yes	Yes
Stoddard solvent	8052-41-3	Yes	Yes	Yes
Xylene	1330-20-7	Yes	Yes	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Ethylbenzene	100-41-4	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

• Ethylbenzene	100-41-4	B2, D2A, D2B
• Stoddard solvent	8052-41-3	B3, D2B
• Xylene	1330-20-7	B2, D2A, D2B

#### Canada - WHMIS - Ingredient Disclosure List

• Ethylbenzene	100-41-4	0.1 %
• Stoddard solvent	8052-41-3	1 %
• Xylene	1330-20-7	Not Listed

### Environment

#### Canada - 2004 NPRI (National Pollutant Release Inventory)

• Ethylbenzene	100-41-4	Part 1, Group 1 Substance
• Stoddard solvent	8052-41-3	Part 5 Substance
• Xylene	1330-20-7	Part 1, Group 1 Substance; Part 5 Substance

#### Canada - 2005 NPRI (National Pollutant Release Inventory)

• Ethylbenzene	100-41-4	Part 1, Group 1 Substance
• Stoddard solvent	8052-41-3	Part 5 Substance
• Xylene	1330-20-7	Part 1, Group 1 Substance; Part 5 Substance

#### Canada - CEPA - Greenhouse Gases Subject to Mandatory Reporting

• Ethylbenzene	100-41-4	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed

#### Canada - CEPA - Priority Substances List

• Ethylbenzene	100-41-4	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Priority Substance List 1 (substance not considered toxic)

#### Canada - DWQ (Drinking Water Quality) - IMACs

• Ethylbenzene	100-41-4	Not Listed
• Stoddard solvent	8052-41-3	Not Listed

• Xylene	1330-20-7	Not Listed
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**Other****Canada - Accelerated Reduction/Elimination of Toxics (ARET)**

• Ethylbenzene	100-41-4	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed

**Canada New Brunswick****Environment****Canada - New Brunswick - Ozone Depleting Substances - Schedule A**

• Ethylbenzene	100-41-4	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed

**Canada - New Brunswick - Ozone Depleting Substances - Schedule B**

• Ethylbenzene	100-41-4	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed

**Europe****Other****EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification**

• Ethylbenzene	100-41-4	F; R11 Xn; R20
• Stoddard solvent	8052-41-3	Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65
• Xylene	1330-20-7	R10 Xn; R20/21 Xi; R38

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits**

• Ethylbenzene	100-41-4	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	12.5%≤C: Xn; R:20/21

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling**

• Ethylbenzene	100-41-4	F Xn R:11-20 S:(2)-16-24/25-29
• Stoddard solvent	8052-41-3	T R:45-46-65 S:53-45
• Xylene	1330-20-7	Xn R:10-20/21-38 S:(2)-25

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations**

• Ethylbenzene	100-41-4	Not Listed
• Stoddard solvent	8052-41-3	P
• Xylene	1330-20-7	C

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases**

• Ethylbenzene	100-41-4	S:(2)-16-24/25-29
• Stoddard solvent	8052-41-3	S:53-45
• Xylene	1330-20-7	S:(2)-25

**United States****Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• Ethylbenzene	100-41-4	Not Listed
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• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed

**U.S. - OSHA - Specifically Regulated Chemicals**

• Ethylbenzene	100-41-4	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed

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

• Ethylbenzene	100-41-4	(listed under Ethyl benzene)
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	(isomers and mixtures)

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

• Ethylbenzene	100-41-4	1000 lb final RQ; 454 kg final RQ
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	100 lb final RQ; 45.4 kg final RQ

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

• Ethylbenzene	100-41-4	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed

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

• Ethylbenzene	100-41-4	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed

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

• Ethylbenzene	100-41-4	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed

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

• Ethylbenzene	100-41-4	0.1 % de minimis concentration
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	1.0 % de minimis concentration

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

• Ethylbenzene	100-41-4	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII**

• Ethylbenzene	100-41-4	Included in waste stream: F039
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Included in waste stream: F039

**U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring**

• Ethylbenzene	100-41-4	
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	

**U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents**

• Ethylbenzene	100-41-4	
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	

**U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards**

• Ethylbenzene	100-41-4	0.057 mg/L (wastewater); 10 mg/kg (nonwastewater)
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	0.32 mg/L (wastewater); 30 mg/kg (nonwastewater)

**U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring**

• Ethylbenzene	100-41-4	
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	(total)

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

• Ethylbenzene	100-41-4	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	waste number U239 (Ignitable waste)

**United States - California****Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Ethylbenzene	100-41-4	carcinogen, initial date 6/11/04
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed

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

• Ethylbenzene	100-41-4	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed

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

• Ethylbenzene	100-41-4	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed

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

• Ethylbenzene	100-41-4	54 µg/day NSRL (inhalation); 41 µg/day NSRL (oral)
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed

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

• Ethylbenzene	100-41-4	Not Listed
• Stoddard solvent	8052-41-3	Not Listed

• Xylene	1330-20-7	Not Listed
<b>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</b>		
• Ethylbenzene	100-41-4	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	Not Listed

## United States - Pennsylvania

### Labor

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

• Ethylbenzene	100-41-4	
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	

#### U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• Ethylbenzene	100-41-4	Not Listed
• Stoddard solvent	8052-41-3	Not Listed
• Xylene	1330-20-7	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)

- H225 - Highly flammable liquid and vapour
- R11 - Highly flammable.
- R20 - Harmful by inhalation.

### Last Revision Date

- 15/November/2013

### Preparation Date

- 17/August/2010

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### Key to abbreviations

NDA = No data available