



# SAFETY DATA SHEET

## Section 1. Identification

CHS Inc.	Transportation Emergency (CHEMTREC)	:	1-800-424-9300
P.O. Box 64089	Technical Information	:	1-651-355-8443
Mail station 525	SDS Information	:	1-651-355-8445
St. Paul, MN 55164-0089			

Product name	: E-85 (Fuel Ethanol)	SDS no.	: 0183-E85AL
Common name	: E-85	Revision date	: 06/09/2015
Chemical name	: Light Petroleum Distillate	Chemical formula	: Mixture
Chemical family	: Mixed Petroleum Hydrocarbon		

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

Not available.

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 2  
SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2  
GERM CELL MUTAGENICITY - Category 1B  
CARCINOGENICITY - Category 1A  
TOXIC TO REPRODUCTION (Unborn child) - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1  
ASPIRATION HAZARD - Category 1

### GHS label elements

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : Highly flammable liquid and vapor.  
Causes serious eye irritation.  
Causes skin irritation.  
May cause genetic defects.  
May cause cancer.  
Suspected of damaging the unborn child.  
May be fatal if swallowed and enters airways.  
Causes damage to organs through prolonged or repeated exposure.

### **Precautionary statements**

**General** : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

**Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

**Response** : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Storage** : Store locked up. Store in a well-ventilated place. Keep cool.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazards not otherwise classified (HNOC)** : None known.

Hazardous Material Information System (U.S.A.)      Health :    2 \*    Flammability :    3    Physical hazards :    0  
 National Fire Protection Association (U.S.A.)      Health :    2      Flammability :    3      Instability :    0

### Section 3. Composition/information on ingredients

Substance/mixture : Mixture  
 Chemical name : Light Petroleum Distillate  
 Other means of identification : E-85

Ingredient name	%	CAS number
Ethyl Alcohol	60 - 100	64-17-5
Gasoline, natural	10 - 30	8006-61-9
Toluene	1 - 5	108-88-3
Xylene	1 - 5	1330-20-7
Benzene	1 - 5	71-43-2
1,2,4-Trimethylbenzene	1 - 5	95-63-6
Ethylbenzene	0.1 - 1	100-41-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

**Eye contact** : If material comes in contact with the eyes, immediately wash the eyes with large amounts of water for 15 minutes, occasionally lifting the lower and upper lids. Get medical attention.  
**Inhalation** : If person breathes in large amounts of material, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep the person warm and at rest. Get medical attention as soon as possible.  
**Skin contact** : If the material comes in contact with the skin, wash the contaminated skin with soap and water promptly. If the material penetrates through clothing, remove the clothing and wash the skin with soap and water promptly. If irritation persists after washing, get medical attention immediately.  
**Ingestion** : If material has been swallowed, do not induce vomiting. Get medical attention immediately.

#### Most important symptoms/effects, acute and delayed

##### Potential acute health effects

**Eye contact** : Causes serious eye irritation.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : Causes skin irritation.  
**Ingestion** : May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.

##### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following: pain or irritation, watering, redness.  
**Inhalation** : Adverse symptoms may include the following: respiratory tract irritation, coughing.  
**Skin contact** : Adverse symptoms may include the following: irritation, redness.  
**Ingestion** : No known significant effects or critical hazards.

#### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
**Specific treatments** : No specific treatment.  
**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet or water-based fire extinguishers.
- Specific hazards arising from the chemical** : Highly volatile material. Flowing gasoline can be ignited by self-generated static electricity; containers should be bonded and grounded. Vapors may travel along the ground to a source of ignition (pilot light, heater, electric motor) some distance away. Containers, drums (even empty) can explode when heat (welding, cutting, etc.) is applied.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide
- Special protective actions for fire-fighters** : Water may be ineffective on flames, but should be used to keep fire-exposed containers cool. Large fires, such as tank fires, should be fought with caution. If possible, pump the contents from the tank and keep adjoining structures cool and protect personnel. Avoid spreading burning liquid with water used for cooling purposes. Do not flush down public sewers. The use of a self-contained breathing apparatus and protective clothing is recommended for fire fighters. Avoid inhalation of vapors.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Keep unnecessary and unprotected personnel from entering. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

### Methods and materials for containment and cleaning up

- Spill** : Contain with dikes or absorbent to prevent migration to sewers/streams. Take up small spill with dry chemical absorbent; large spills may require pump or vacuum prior to absorbent. May require excavation of severely contaminated soil.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
- Conditions for safe storage, including any incompatibilities** : Do not store above the following temperature: 113°C (235.4°F). Odorous and toxic fumes may form from the decomposition of this product if stored at excessive temperatures for extended periods of time. Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
Ethyl Alcohol	<b>ACGIH TLV (United States, 6/2013).</b> STEL: 1000 ppm 15 minutes. <b>NIOSH REL (United States, 4/2013).</b> TWA: 1900 mg/m <sup>3</sup> 10 hours. TWA: 1000 ppm 10 hours. <b>OSHA PEL (United States, 2/2013).</b> TWA: 1900 mg/m <sup>3</sup> 8 hours. TWA: 1000 ppm 8 hours.
Gasoline, natural	<b>OSHA PEL 1989 (United States, 3/1989).</b> STEL: 1500 mg/m <sup>3</sup> 15 minutes. STEL: 500 ppm 15 minutes. TWA: 900 mg/m <sup>3</sup> 8 hours. TWA: 300 ppm 8 hours.
Toluene	<b>NIOSH REL (United States, 10/2013).</b> STEL: 560 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m <sup>3</sup> 10 hours. TWA: 100 ppm 10 hours. <b>OSHA PEL Z2 (United States, 2/2013).</b>

Xylene	<p>AMP: 500 ppm 10 minutes.            CEIL: 300 ppm            TWA: 200 ppm 8 hours.  <b>ACGIH TLV (United States, 4/2014).</b>            TWA: 20 ppm 8 hours.  <b>ACGIH TLV (United States, 4/2014).</b>            STEL: 651 mg/m<sup>3</sup> 15 minutes.            STEL: 150 ppm 15 minutes.            TWA: 434 mg/m<sup>3</sup> 8 hours.            TWA: 100 ppm 8 hours.  <b>OSHA PEL (United States, 2/2013).</b>            TWA: 100 ppm 8 hours.            TWA: 435 mg/m<sup>3</sup> 8 hours.</p>
Benzene	<p><b>ACGIH TLV (United States, 4/2014). Absorbed through skin.</b>            STEL: 8 mg/m<sup>3</sup> 15 minutes.            STEL: 2.5 ppm 15 minutes.            TWA: 1.6 mg/m<sup>3</sup> 8 hours.            TWA: 0.5 ppm 8 hours.  <b>NIOSH REL (United States, 10/2013).</b>            STEL: 1 ppm 15 minutes.            TWA: 0.1 ppm 10 hours.  <b>OSHA PEL (United States, 2/2013).</b>            STEL: 5 ppm 15 minutes.            TWA: 1 ppm 8 hours.  <b>OSHA PEL Z2 (United States, 2/2013).</b>            AMP: 50 ppm 10 minutes.            CEIL: 25 ppm            TWA: 10 ppm 8 hours.  <b>ACGIH TLV (United States, 4/2014).</b>            TWA: 123 mg/m<sup>3</sup> 8 hours.            TWA: 25 ppm 8 hours.  <b>NIOSH REL (United States, 10/2013).</b>            TWA: 125 mg/m<sup>3</sup> 10 hours.            TWA: 25 ppm 10 hours.  <b>OSHA PEL 1989 (United States, 3/1989).</b>            TWA: 25 ppm 8 hours.            TWA: 125 mg/m<sup>3</sup> 8 hours.</p>
1,2,4-Trimethylbenzene	<p><b>ACGIH TLV (United States, 4/2014).</b>            TWA: 123 mg/m<sup>3</sup> 8 hours.            TWA: 25 ppm 8 hours.  <b>NIOSH REL (United States, 10/2013).</b>            TWA: 125 mg/m<sup>3</sup> 10 hours.            TWA: 25 ppm 10 hours.  <b>OSHA PEL 1989 (United States, 3/1989).</b>            TWA: 25 ppm 8 hours.            TWA: 125 mg/m<sup>3</sup> 8 hours.</p>
Ethylbenzene	<p><b>ACGIH TLV (United States, 4/2014).</b>            TWA: 20 ppm 8 hours.  <b>NIOSH REL (United States, 10/2013).</b>            STEL: 545 mg/m<sup>3</sup> 15 minutes.            STEL: 125 ppm 15 minutes.            TWA: 435 mg/m<sup>3</sup> 10 hours.            TWA: 100 ppm 10 hours.  <b>OSHA PEL (United States, 2/2013).</b>            TWA: 435 mg/m<sup>3</sup> 8 hours.            TWA: 100 ppm 8 hours.</p>

**Appropriate engineering controls** : Use only with adequate ventilation.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

#### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Recommended: Splash goggles and a face shield, where splash hazard exists.

#### **Skin protection**

**Hand protection** : 4 - 8 hours (breakthrough time): Nitrile gloves.

**Body protection** : Recommended: Long sleeved coveralls.

**Other skin protection** : Recommended: Impervious boots.

**Respiratory protection** : If ventilation is inadequate, use a NIOSH-certified respirator with an organic vapor cartridge and P95 particulate filter.

### Section 9. Physical and chemical properties

#### Appearance

**Physical state** : Liquid.

**Color** : Light golden brown

**Odor** : Gasoline

**Relative density** : 0.789

**Evaporation rate** : Slower.

**Solubility** : Very slightly soluble in the following materials:  
cold water and hot water.

**Solubility in water** : Partially soluble.

<b>Odor threshold</b>	: 10 ppm	<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>pH</b>	: Not available.	<b>Auto-ignition temperature</b>	: Not available.
<b>Melting point</b>	: Not available.	<b>Decomposition temperature</b>	: Not available.
<b>Boiling point</b>	: Not available.	<b>SADT</b>	: Not available.
<b>Flash point</b>	: Closed cup: <-17.77°C (<0°F) [Pensky-Martens.]	<b>Viscosity</b>	: Not available.
<b>Flammability</b>	: Not available.	<b>Vapor pressure</b>	: Not available.
<b>Lower and upper explosive (flammable) limits</b>	: Not available.	<b>Vapor density</b>	: Not available.

### Section 10. Stability and reactivity

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
<b>Incompatible materials</b>	: Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Ethyl Alcohol	LC50 Inhalation Vapor LD50 Oral	Rat Rat	124700 mg/m <sup>3</sup> 7 g/kg	4 hours -
Toluene	LC50 Inhalation Vapor LD50 Oral	Rat Rat	49 g/m <sup>3</sup> 636 mg/kg	4 hours -
Xylene	LC50 Inhalation Gas. LD50 Oral	Rat Rat	5000 ppm 4300 mg/kg	4 hours -
Benzene	LD50 Oral	Rat	930 mg/kg	-
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor LD50 Oral	Rat Rat	18000 mg/m <sup>3</sup> 5 g/kg	4 hours -
Ethylbenzene	LD50 Dermal LD50 Oral	Rabbit Rat	>5000 mg/kg 3500 mg/kg	- -

##### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ethyl Alcohol	Eyes - Moderate irritant	Rabbit	-	100 µL	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes 100 mg	-
Gasoline, natural	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	400 mg	-
	Eyes - Mild irritant	Human	-	8 hours 140 ppm	-
	Eyes - Moderate irritant	Man	-	1 hours 500 ppm	-
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Mild irritant	Rabbit	-	870 µg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
Xylene	Skin - Mild irritant	Pig	-	24 hours 250 µL	-
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-
	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 µL	-
Benzene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	100%	-
	Eyes - Moderate irritant	Rabbit	-	88 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-

Ethylbenzene	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 µL	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 mg	-
	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 mg	-

**Sensitization**

**Skin** : There is no data available.

**Respiratory** : There is no data available.

**Mutagenicity**

There is no data available.

**Carcinogenicity****Classification**

Product/ingredient name	OSHA	IARC	NTP
Gasoline, natural	-	2B	-
Toluene	-	3	-
Xylene	-	3	-
Benzene	+	1	Known to be a human carcinogen.
Ethylbenzene	-	2B	-

**Reproductive toxicity**

There is no data available.

**Teratogenicity**

There is no data available.

**Specific target organ toxicity (single exposure)**

Name	Category	Route of exposure	Target organs
Toluene	Category 3	Not applicable.	Narcotic effects
1,2,4-Trimethylbenzene	Category 3	Not applicable.	Respiratory tract irritation

**Specific target organ toxicity (repeated exposure)**

Name	Category	Route of exposure	Target organs
Toluene	Category 2	Not determined	Not determined
Benzene	Category 1	Not determined	Not determined

**Aspiration hazard**

Name	Result
Gasoline, natural	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1
Benzene	ASPIRATION HAZARD - Category 1

**Information on the likely routes of exposure** : Dermal contact. Eye contact. Inhalation. Ingestion.

**Section 12. Ecological information****Toxicity**

Product/ingredient name	Result	Species	Exposure
Ethyl Alcohol	Acute EC50 17.921 mg/L Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 µg/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 µg/L Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
Gasoline, natural	Acute LC50 42000 µg/L Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/L Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.375 µl/L Fresh water	Fish - Gambusia holbrooki - Larvae	12 weeks
	Acute EC50 17.5 mg/L Marine water	Crustaceans - Artemia sp. - Nauplii	48 hours
	Acute EC50 1.5 mg/L Marine water	Daphnia - Daphnia magna - Neonate	48 hours
Toluene	Acute EC50 433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 12500 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/L Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 µg/L Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/L Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 500000 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 1000 µg/L Fresh water	Daphnia - Daphnia magna	21 days

Xylene	Acute IC50 10 mg/L Acute LC50 8500 µg/L Marine water Acute LC50 13400 µg/L Fresh water	Algae Crustaceans - Palaemonetes pugio Fish - Pimephales promelas	72 hours 48 hours 96 hours
Benzene	Acute EC50 29000 µg/L Fresh water Acute EC50 1360000 µg/L Fresh water Acute EC50 9230 µg/L Fresh water Acute LC50 21000 µg/L Marine water Acute LC50 5.28 ul/L Fresh water Chronic NOEC 1.5 to 5.4 ul/L Marine water	Algae - Pseudokirchneriella subcapitata Algae - Scenedesmus abundans Daphnia - Daphnia magna - Neonate Crustaceans - Artemia salina - Nauplii Fish - Oncorhynchus gorbuscha - Fry Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling)	72 hours 96 hours 48 hours 48 hours 96 hours 4 weeks
1,2,4-Trimethylbenzene	Acute LC50 4910 µg/L Marine water	Crustaceans - Elasmopus pecteniscrus - Adult Fish - Tilapia zillii	48 hours 96 hours
Ethylbenzene	Acute LC50 22.4 mg/L Fresh water Acute EC50 4600 µg/L Fresh water Acute EC50 3600 µg/L Fresh water Acute EC50 2970 µg/L Fresh water Acute LC50 5200 µg/L Marine water Acute LC50 4200 µg/L Fresh water Chronic NOEC 1000 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Daphnia - Daphnia magna - Neonate Crustaceans - Americamysis bahia Fish - Oncorhynchus mykiss Algae - Pseudokirchneriella subcapitata	72 hours 96 hours 48 hours 48 hours 96 hours 96 hours

**Persistence and degradability**

There is no data available.

**Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Ethyl Alcohol	-0.32	-	low
Gasoline, natural	-	10 to 2500	high
Toluene	2.73	90	low
Xylene	3.12	8.1 to 25.9	low
Benzene	2.13	11	low
1,2,4-Trimethylbenzene	3.63	243	low
Ethylbenzene	3.6	-	low

**Mobility in soil**

Soil/water partition coefficient (K<sub>oc</sub>) : There is no data available.

Other adverse effects : No known significant effects or critical hazards.

**Section 13. Disposal considerations**

**Disposal methods** : Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

**Section 14. Transport information**

**DOT IDENTIFICATION NUMBER** UN3475      **DOT proper shipping name** ETHANOL AND GASOLINE MIXTURE  
**DOT Hazard Class(es)** 3      **PG** II      **DOT EMER. RESPONSE GUIDE NO.** 127

**Section 15. Regulatory information**

**U.S. Federal regulations** : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** All components are listed or exempted.  
**Clean Water Act (CWA) 307:** Toluene; Benzene; Ethylbenzene  
**Clean Water Act (CWA) 311:** Toluene; Xylene; Benzene; Ethylbenzene

**Clean Air Act Section 602 Class I Substances** : Not listed      **DEA List I Chemicals (Precursor Chemicals)** : Not listed  
**Clean Air Act Section 602 Class II Substances** : Not listed      **DEA List II Chemicals (Essential Chemicals)** : Listed  
**Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)** : Listed

**SARA 302/304****Composition/information on ingredients**

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312**

**Hazard classifications** : Fire hazard  
Immediate (acute) health hazard  
Delayed (chronic) health hazard

**Composition/information on ingredients**

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Ethyl Alcohol	60 - 100	Yes.	No.	No.	Yes.	No.
Gasoline, natural	10 - 30	No.	No.	No.	No.	Yes.
Toluene	1 - 5	Yes.	No.	No.	Yes.	Yes.
Xylene	1 - 5	Yes.	No.	No.	Yes.	No.
Benzene	1 - 5	Yes.	No.	No.	Yes.	Yes.
1,2,4-Trimethylbenzene	1 - 5	Yes.	No.	No.	Yes.	No.
Ethylbenzene	0.1 - 1	Yes.	No.	No.	Yes.	Yes.

**SARA 313** : This product (does/not) contain toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

Product name	CAS number	%
Toluene	108-88-3	Up to 5
Xylene	1330-20-7	Up to 5
Benzene	71-43-2	Up to 2
1,2,4-Trimethylbenzene	95-63-6	Up to 2
Ethylbenzene	100-41-4	Up to 1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

**State regulations**

**Massachusetts** : The following components are listed: Ethyl Alcohol; Gasoline, natural; Toluene; Xylene; Benzene; 1,2,4-Trimethylbenzene

**New York** : The following components are listed: Toluene; Xylene; Benzene; Ethylbenzene

**New Jersey** : The following components are listed: Ethyl Alcohol; Gasoline, natural; Toluene; Xylene; Benzene; 1,2,4-Trimethylbenzene; Ethylbenzene

**Pennsylvania** : The following components are listed: Ethyl Alcohol; Toluene; Xylene; Benzene; 1,2,4-Trimethylbenzene; Ethylbenzene

**California Prop. 65** : **WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Toluene	No.	Yes.	No.	7000 µg/day (ingestion) 13000 µg/day (inhalation)
Benzene	Yes.	Yes.	6.4 µg/day (ingestion) 13 µg/day (inhalation)	24 µg/day (ingestion) 49 µg/day (inhalation)
Ethylbenzene	Yes.	No.	41 µg/day (ingestion) 54 µg/day (inhalation)	No.



**Section 16. Other information**

**Revision date** : 06/09/2015  
**Revised Section(s)** : 1, 2, 16.

**Supersedes** : 10/06/2014  
**Prepared by** : KMK Regulatory Services Inc.

Notice to reader

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A BRAND OF The logo for CHS, consisting of the letters "CHS" in a bold, serif font. The letters are white and are set against a dark, curved background that resembles a stylized "C" or a swoosh.