



# 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 |                                     |   |                |

|                        |                                           |                         |              |
|------------------------|-------------------------------------------|-------------------------|--------------|
| <b>Product name</b>    | : Gasohol; Unleaded Gasoline with Ethanol | <b>SDS no.</b>          | : 0164-M9A0  |
| <b>Common name</b>     | : Gasohol; Ethanol Blends                 | <b>Revision date</b>    | : 06/09/2015 |
| <b>Chemical name</b>   | : Light Petroleum Distillate              | <b>Chemical formula</b> | : Mixture    |
| <b>Chemical family</b> | : 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 1  
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  
AQUATIC HAZARD (LONG-TERM) - Category 3

### GHS label elements

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : Extremely 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.  
Harmful to aquatic life with long lasting effects.

### 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. Avoid release to the environment. 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** : 4      **Physical hazards** : 0

**National Fire Protection Association (U.S.A.)**      **Health** : 2      **Flammability** : 4      **Instability** : 0

### Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Chemical name** : Light Petroleum Distillate

**Other means of identification** : Gasohol; Ethanol Blends

| Ingredient name        | %        | CAS number |
|------------------------|----------|------------|
| Gasoline, natural      | 60 - 100 | 8006-61-9  |
| Toluene                | 10 - 30  | 108-88-3   |
| Ethyl Alcohol          | 5 - 10   | 64-17-5    |
| Benzene                | 5 - 10   | 71-43-2    |
| 1,2,4-Trimethylbenzene | 1 - 5    | 95-63-6    |
| Ethylbenzene           | 1 - 5    | 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                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gasoline, natural | <b>OSHA PEL 1989 (United States, 3/1989).</b><br>STEL: 1500 mg/m <sup>3</sup> 15 minutes.<br>STEL: 500 ppm 15 minutes.<br>TWA: 900 mg/m <sup>3</sup> 8 hours.<br>TWA: 300 ppm 8 hours.                                                                                                                                                                                         |
| Toluene           | <b>NIOSH REL (United States, 10/2013).</b><br>STEL: 560 mg/m <sup>3</sup> 15 minutes.<br>STEL: 150 ppm 15 minutes.<br>TWA: 375 mg/m <sup>3</sup> 10 hours.<br>TWA: 100 ppm 10 hours.<br><b>OSHA PEL Z2 (United States, 2/2013).</b><br>AMP: 500 ppm 10 minutes.<br>CEIL: 300 ppm<br>TWA: 200 ppm 8 hours.<br><b>ACGIH TLV (United States, 4/2014).</b><br>TWA: 20 ppm 8 hours. |
| Ethyl Alcohol     | <b>ACGIH TLV (United States, 6/2013).</b><br>STEL: 1000 ppm 15 minutes.<br><b>NIOSH REL (United States, 4/2013).</b>                                                                                                                                                                                                                                                           |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Benzene                | <p>TWA: 1900 mg/m<sup>3</sup> 10 hours.<br/>TWA: 1000 ppm 10 hours.<br/><b>OSHA PEL (United States, 2/2013).</b><br/>TWA: 1900 mg/m<sup>3</sup> 8 hours.<br/>TWA: 1000 ppm 8 hours.<br/><b>ACGIH TLV (United States, 4/2014). Absorbed through skin.</b><br/>STEL: 8 mg/m<sup>3</sup> 15 minutes.<br/>STEL: 2.5 ppm 15 minutes.<br/>TWA: 1.6 mg/m<sup>3</sup> 8 hours.<br/>TWA: 0.5 ppm 8 hours.<br/><b>NIOSH REL (United States, 10/2013).</b><br/>STEL: 1 ppm 15 minutes.<br/>TWA: 0.1 ppm 10 hours.<br/><b>OSHA PEL (United States, 2/2013).</b><br/>STEL: 5 ppm 15 minutes.<br/>TWA: 1 ppm 8 hours.<br/><b>OSHA PEL Z2 (United States, 2/2013).</b><br/>AMP: 50 ppm 10 minutes.<br/>CEIL: 25 ppm<br/>TWA: 10 ppm 8 hours.<br/><b>ACGIH TLV (United States, 4/2014).</b><br/>TWA: 123 mg/m<sup>3</sup> 8 hours.<br/>TWA: 25 ppm 8 hours.<br/><b>NIOSH REL (United States, 10/2013).</b><br/>TWA: 125 mg/m<sup>3</sup> 10 hours.<br/>TWA: 25 ppm 10 hours.<br/><b>OSHA PEL 1989 (United States, 3/1989).</b><br/>TWA: 25 ppm 8 hours.<br/>TWA: 125 mg/m<sup>3</sup> 8 hours.<br/><b>ACGIH TLV (United States, 4/2014).</b><br/>TWA: 20 ppm 8 hours.<br/><b>NIOSH REL (United States, 10/2013).</b><br/>STEL: 545 mg/m<sup>3</sup> 15 minutes.<br/>STEL: 125 ppm 15 minutes.<br/>TWA: 435 mg/m<sup>3</sup> 10 hours.<br/>TWA: 100 ppm 10 hours.<br/><b>OSHA PEL (United States, 2/2013).</b><br/>TWA: 435 mg/m<sup>3</sup> 8 hours.<br/>TWA: 100 ppm 8 hours.</p> |
| 1,2,4-Trimethylbenzene |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Ethylbenzene           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**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

|                       |                                               |                                               |                                                                   |
|-----------------------|-----------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------|
| <b>Appearance</b>     |                                               | <b>Relative density</b>                       | : 0.68 to 0.78                                                    |
| <b>Physical state</b> | : Liquid.                                     | <b>Evaporation rate</b>                       | : Slower.                                                         |
| <b>Color</b>          | : Reddish golden brown.                       | <b>Solubility</b>                             | : Insoluble in the following materials: cold water and hot water. |
| <b>Odor</b>           | : Gasoline                                    | <b>Solubility in water</b>                    | : Negligible.                                                     |
| <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>              | : 257.22 to 454.44°C (495 to 850°F)                               |
| <b>Melting point</b>  | : Not available.                              | <b>Decomposition temperature</b>              | : Not available.                                                  |
| <b>Boiling point</b>  | : 26.66°C (80°F)                              | <b>SADT</b>                                   | : Not available.                                                  |
| <b>Flash point</b>    | : Closed cup: -45°C (-49°F) [Pensky-Martens.] | <b>Viscosity</b>                              | : Not available.                                                  |

**Flammability** : Not available.  
**Lower and upper explosive (flammable) limits** : Lower: 1.4%  
 Upper: 7.6%

**Vapor pressure** : 53.3 kPa (400 mm Hg) (68°F)  
**Vapor density** : 3 to 4 [Air = 1]

### Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.  
**Chemical stability** : The product is stable.  
**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : 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. Do not allow vapor to accumulate in low or confined areas.  
**Incompatible materials** : Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.  
**Hazardous decomposition products** : 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 |
|-------------------------|-----------------------|---------|--------------------------|----------|
| Toluene                 | LC50 Inhalation Vapor | Rat     | 49 g/m <sup>3</sup>      | 4 hours  |
|                         | LD50 Oral             | Rat     | 636 mg/kg                | -        |
| Ethyl Alcohol           | LC50 Inhalation Vapor | Rat     | 124700 mg/m <sup>3</sup> | 4 hours  |
|                         | LD50 Oral             | Rat     | 7 g/kg                   | -        |
| Benzene                 | LD50 Oral             | Rat     | 930 mg/kg                | -        |
| 1,2,4-Trimethylbenzene  | LC50 Inhalation Vapor | Rat     | 18000 mg/m <sup>3</sup>  | 4 hours  |
|                         | LD50 Oral             | Rat     | 5 g/kg                   | -        |
| Ethylbenzene            | LD50 Dermal           | Rabbit  | >5000 mg/kg              | -        |
|                         | LD50 Oral             | Rat     | 3500 mg/kg               | -        |

##### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure                  | Observation |
|-------------------------|--------------------------|---------|-------|---------------------------|-------------|
| Gasoline, natural       | 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             | -           |
|                         | Skin - Mild irritant     | Pig     | -     | 24 hours 250 µL           | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 435 mg                    | -           |
| Ethyl Alcohol           | Skin - Moderate irritant | Rabbit  | -     | 500 mg                    | -           |
|                         | 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  | -     | 0.06666667 minutes 100 mg | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 500 mg                    | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 400 mg                    | -           |
| Benzene                 | Eyes - Moderate irritant | Rabbit  | -     | 88 mg                     | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 mg            | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 2 mg             | -           |
|                         | Skin - Mild irritant     | Rat     | -     | 8 hours 60 µL             | -           |
| Ethylbenzene            | 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    | -                               |
| 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 |
|-------------------------|-------------------------------------------|---------------------------------------------------------------------|----------|
| Gasoline, natural       | Acute EC50 17.5 mg/L Marine water         | Crustaceans - Artemia sp. - Nauplii                                 | 48 hours |
| Toluene                 | Acute EC50 1.5 mg/L Marine water          | Daphnia - Daphnia magna - Neonate                                   | 48 hours |
|                         | 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 |
| Ethyl Alcohol           | 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  |
|                         | 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 |
| Benzene                 | Acute LC50 25500 µg/L Marine water        | Crustaceans - Artemia franciscana - Larvae                          | 48 hours |
|                         | 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 29000 µg/L Fresh water         | Algae - Pseudokirchneriella subcapitata                             | 72 hours |
| 1,2,4-Trimethylbenzene  | Acute EC50 1360000 µg/L Fresh water       | Algae - Scenedesmus abundans                                        | 96 hours |
|                         | Acute EC50 9230 µg/L Fresh water          | Daphnia - Daphnia magna - Neonate                                   | 48 hours |
|                         | Acute LC50 21000 µg/L Marine water        | Crustaceans - Artemia salina - Nauplii                              | 48 hours |
|                         | Acute LC50 5.28 µl/L Fresh water          | Fish - Oncorhynchus gorbuscha - Fry                                 | 96 hours |
|                         | Chronic NOEC 1.5 to 5.4 µl/L Marine water | Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling) | 4 weeks  |
| Ethylbenzene            | Acute LC50 4910 µg/L Marine water         | Crustaceans - Elasmopus pectenicrus - Adult                         | 48 hours |
|                         | Acute LC50 22.4 mg/L Fresh water          | Fish - Tilapia zillii                                               | 96 hours |
|                         | Acute EC50 4600 µg/L Fresh water          | Algae - Pseudokirchneriella subcapitata                             | 72 hours |
|                         | Acute EC50 3600 µg/L Fresh water          | Algae - Pseudokirchneriella subcapitata                             | 96 hours |
|                         | Acute EC50 2970 µg/L Fresh water          | Daphnia - Daphnia magna - Neonate                                   | 48 hours |
| Ethylbenzene            | Acute LC50 5200 µg/L Marine water         | Crustaceans - Americamysis bahia                                    | 48 hours |
|                         | Acute LC50 4200 µg/L Fresh water          | Fish - Oncorhynchus mykiss                                          | 96 hours |
|                         | Chronic NOEC 1000 µg/L Fresh water        | Algae - Pseudokirchneriella subcapitata                             | 96 hours |

**Persistence and degradability**

There is no data available.

**Bioaccumulative potential**

| Product/ingredient name | LogP <sub>ow</sub> | BCF        | Potential |
|-------------------------|--------------------|------------|-----------|
| Gasoline, natural       | -                  | 10 to 2500 | high      |
| Toluene                 | 2.73               | 90         | low       |
| Ethyl Alcohol           | -0.32              | -          | 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** UN1203                      **DOT proper shipping name** GASOLINE (Gasoline, natural, Toluene). Marine pollutant (Gasoline, natural) RQ (Benzene, Toluene)

**DOT Hazard Class(es)** 3                                      **PG** I                                      **DOT EMER. RESPONSE GUIDE NO.** 128

**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; 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 |
|------------------------|----------|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| Gasoline, natural      | 60 - 100 | No.         | No.                        | No.      | No.                             | Yes.                            |
| Toluene                | 10 - 30  | Yes.        | No.                        | No.      | Yes.                            | Yes.                            |
| Ethyl Alcohol          | 5 - 10   | Yes.        | No.                        | No.      | Yes.                            | No.                             |
| Benzene                | 5 - 10   | Yes.        | No.                        | No.      | Yes.                            | Yes.                            |
| 1,2,4-Trimethylbenzene | 1 - 5    | Yes.        | No.                        | No.      | Yes.                            | No.                             |
| Ethylbenzene           | 1 - 5    | 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 15 |
| Xylene                 | 1330-20-7  | Up to 20 |
| Benzene                | 71-43-2    | Up to 5  |
| 1,2,4-Trimethylbenzene | 95-63-6    | Up to 5  |
| Ethylbenzene           | 100-41-4   | Up to 5  |

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: Gasoline, natural; Toluene; Ethyl Alcohol; Benzene; 1,2,4-Trimethylbenzene; Ethylbenzene
- New York** : The following components are listed: Toluene; Benzene; Ethylbenzene
- New Jersey** : The following components are listed: Gasoline, natural; Toluene; Ethyl Alcohol; Benzene; 1,2,4-Trimethylbenzene; Ethylbenzene
- Pennsylvania** : The following components are listed: Toluene; Ethyl Alcohol; 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)<br>13000 µg/day (inhalation) |
| Benzene         | Yes.   | Yes.         | 6.4 µg/day (ingestion)<br>13 µg/day (inhalation) | 24 µg/day (ingestion)<br>49 µg/day (inhalation)      |
| Ethylbenzene    | Yes.   | No.          | 41 µg/day (ingestion)<br>54 µg/day (inhalation)  | No.                                                  |

#### Section 16. Other information

**Revision date** : 06/09/2015

**Supersedes** : 11/15/2013

**Revised Section(s)** : 1, 2, 16.

**Prepared by** : KMK Regulatory Services Inc.

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