



# 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	: Top Tier Detergent, Regular, Midgrade & Premium Unleaded Gasoline	SDS no.	: 0147- M6A0.HL
Common name	: Unleaded Gasoline, Premium Unleaded Gasoline	Revision date	: 06/02/2021
Chemical name	: Light Petroleum Distillate	Chemical formula	: mixture
Chemical family	: Petroleum Hydrocarbon.		

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

Vehicle fuel.

## 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 2A  
GERM CELL MUTAGENICITY - Category 1  
CARCINOGENICITY - Category 1A  
TOXIC TO REPRODUCTION (Fertility) - Category 2  
TOXIC TO REPRODUCTION (Unborn child) - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (bladder, hearing organs, kidneys, liver, respiratory system) - Category 1  
ASPIRATION HAZARD - Category 1  
AQUATIC HAZARD (ACUTE) - Category 2  
AQUATIC HAZARD (LONG-TERM) - Category 2

### GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: H224 - Extremely flammable liquid and vapor.  
H319 - Causes serious eye irritation.  
H315 - Causes skin irritation.  
H340 - May cause genetic defects.  
H350 - May cause cancer.  
H361 - Suspected of damaging fertility or the unborn child.  
H304 - May be fatal if swallowed and enters airways.  
H372 - Causes damage to organs through prolonged or repeated exposure. (bladder, hearing organs, kidneys, liver, respiratory system)  
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

General

: Not applicable.

Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. 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.

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- Response** : Collect spillage. 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 and wash it before reuse. 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** : 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** : Unleaded Gasoline, Premium Unleaded Gasoline

Ingredient name	%	CAS number
Gasoline, natural	≥90	8006-61-9
tert-Butyl methyl ether	≥10 - ≤25	1634-04-4
Xylene	≥10 - ≤25	1330-20-7
Toluene	≥10 - ≤13	108-88-3
Ethanol	≥10 - ≤25	64-17-5
n-Hexane	≥5 - ≤6.3	110-54-3
Benzene	≥5 - ≤10	71-43-2
1,2,4-Trimethylbenzene	≥3 - ≤5	95-63-6
Ethylbenzene	≥3 - ≤5	100-41-4
Naphthalene	≥1 - ≤3	91-20-3

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.

**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 water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.
- Unsuitable extinguishing media** : EXTREMELY FLAMMABLE LIQUID. This material can be ignited by heat, sparks, flames, or other sources of ignition. May create an explosion hazard indoors, in confined spaces, outdoors, or in sewers. Static electricity may be a source of ignition at temperatures above 105 °F.
- Specific hazards arising from the chemical** : Extremely flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide
- Special protective actions for fire-fighters** : Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.
- Special protective equipment for fire-fighters** : Wear self-contained breathing apparatus for fire fighting if necessary. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

## 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 the 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** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

**Control parameters****Occupational exposure limits**

Ingredient name	Exposure limits
tert-Butyl methyl ether	<b>ACGIH TLV (United States, 3/2017).</b> TWA: 50 ppm 8 hours.
Xylene	<b>ACGIH TLV (United States, 3/2017).</b> TWA: 100 ppm 8 hours. TWA: 434 mg/m <sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 651 mg/m <sup>3</sup> 15 minutes. <b>OSHA PEL (United States, 6/2016).</b> TWA: 100 ppm 8 hours. TWA: 435 mg/m <sup>3</sup> 8 hours.
Toluene	<b>OSHA PEL Z2 (United States, 2/2013).</b> TWA: 200 ppm 8 hours. CEIL: 300 ppm AMP: 500 ppm 10 minutes. <b>NIOSH REL (United States, 10/2016).</b> TWA: 100 ppm 10 hours. TWA: 375 mg/m <sup>3</sup> 10 hours. STEL: 150 ppm 15 minutes. STEL: 560 mg/m <sup>3</sup> 15 minutes.
Ethanol	<b>ACGIH TLV (United States, 3/2017).</b> TWA: 20 ppm 8 hours. <b>ACGIH TLV (United States, 3/2017).</b> STEL: 1000 ppm 15 minutes. <b>NIOSH REL (United States, 10/2016).</b> TWA: 1000 ppm 10 hours. TWA: 1900 mg/m <sup>3</sup> 10 hours. <b>OSHA PEL (United States, 6/2016).</b> TWA: 1000 ppm 8 hours. TWA: 1900 mg/m <sup>3</sup> 8 hours.
n-Hexane	<b>ACGIH TLV (United States, 3/2017). Absorbed through skin.</b> TWA: 50 ppm 8 hours. <b>NIOSH REL (United States, 10/2016).</b> TWA: 50 ppm 10 hours. TWA: 180 mg/m <sup>3</sup> 10 hours. <b>OSHA PEL (United States, 6/2016).</b> TWA: 500 ppm 8 hours. TWA: 1800 mg/m <sup>3</sup> 8 hours.
Benzene	<b>ACGIH TLV (United States, 3/2017). Absorbed through skin.</b> TWA: 0.5 ppm 8 hours. TWA: 1.6 mg/m <sup>3</sup> 8 hours. STEL: 2.5 ppm 15 minutes. STEL: 8 mg/m <sup>3</sup> 15 minutes. <b>OSHA PEL Z2 (United States, 2/2013).</b> TWA: 10 ppm 8 hours. CEIL: 25 ppm AMP: 50 ppm 10 minutes. <b>NIOSH REL (United States, 10/2016).</b> TWA: 0.1 ppm 10 hours. STEL: 1 ppm 15 minutes. <b>OSHA PEL (United States, 6/2016).</b> TWA: 1 ppm 8 hours. STEL: 5 ppm 15 minutes.
1,2,4-Trimethylbenzene	<b>ACGIH TLV (United States, 3/2017).</b> TWA: 25 ppm 8 hours. TWA: 123 mg/m <sup>3</sup> 8 hours. <b>NIOSH REL (United States, 10/2016).</b> TWA: 25 ppm 10 hours. TWA: 125 mg/m <sup>3</sup> 10 hours.
Ethylbenzene	<b>ACGIH TLV (United States, 3/2017).</b> TWA: 20 ppm 8 hours. <b>NIOSH REL (United States, 10/2016).</b> TWA: 100 ppm 10 hours. TWA: 435 mg/m <sup>3</sup> 10 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m <sup>3</sup> 15 minutes. <b>OSHA PEL (United States, 6/2016).</b> TWA: 100 ppm 8 hours.

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Naphthalene	TWA: 435 mg/m <sup>3</sup> 8 hours. <b>ACGIH TLV (United States, 3/2017). Absorbed through skin.</b> TWA: 10 ppm 8 hours. TWA: 52 mg/m <sup>3</sup> 8 hours. <b>NIOSH REL (United States, 10/2016).</b> TWA: 10 ppm 10 hours. TWA: 50 mg/m <sup>3</sup> 10 hours. STEL: 15 ppm 15 minutes. STEL: 75 mg/m <sup>3</sup> 15 minutes. <b>OSHA PEL (United States, 6/2016).</b> TWA: 10 ppm 8 hours. TWA: 50 mg/m <sup>3</sup> 8 hours.
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- 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>	: 0.74
<b>Physical state</b>	: Liquid.	<b>Evaporation rate</b>	: Not available.
<b>Color</b>	: Clear to straw-colored to reddish-colored.	<b>Solubility</b>	: Not available.
<b>Odor</b>	: Strong hydrocarbon.	<b>Solubility in water</b>	: Negligible.
<b>Odor threshold</b>	: Not available.	<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>pH</b>	: Not available.	<b>Auto-ignition temperature</b>	: 456°C (852.8°F)
<b>Melting point</b>	: <-38°C (<-36.4°F)	<b>Decomposition temperature</b>	: Not available.
<b>Boiling point</b>	: 21°C (69.8°F)	<b>SADT</b>	: Not available.
<b>Flash point</b>	: Closed cup: -38°C (-36.4°F) [Pensky-Martens.]	<b>Viscosity</b>	: Not available.
<b>Flammability</b>	: Not available.	<b>Vapor pressure</b>	: 34.5 to 103.4 kPa (258.57 to 775.72 mm Hg) [room temperature]
<b>Lower and upper explosive (flammable) limits</b>	: Lower: 1.4% Upper: 7.6%	<b>Vapor density</b>	: 5 [Air = 1]

**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. Do not allow vapor to accumulate in low or confined areas.
<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
tert-Butyl methyl ether	LC50 Inhalation Gas.	Rat	23576 ppm	4 hours
	LC50 Inhalation Vapor	Rat	41000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	4 g/kg	-
Xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Toluene	LC50 Inhalation Vapor	Rat	49 g/m <sup>3</sup>	4 hours
Ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	7 g/kg	-
n-Hexane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/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	-
Naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	490 mg/kg	-

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 µl	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	100%	-
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 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	-
Ethanol	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	100 µl	-
n-Hexane	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	400 mg	-
	Eyes - Mild irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	88 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
Benzene	Skin - Mild irritant	Rat	-	8 hours 60 µl	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 mg	-
Ethylbenzene	Skin - Mild irritant	Rabbit	-	495 mg	-
	Skin - Mild irritant	Rabbit	-	495 mg	-

**Sensitization**

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

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

**Mutagenicity**

There is no data available.

**Carcinogenicity****Classification**

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Product/ingredient name	OSHA	IARC	NTP
Gasoline, natural	-	2B	-
tert-Butyl methyl ether	-	3	-
Xylene	-	3	-
Toluene	-	3	-
Benzene	+	1	Known to be a human carcinogen.
Ethylbenzene	-	2B	-
Naphthalene	-	2B	Reasonably anticipated to be a human carcinogen.

**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
n-Hexane	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	bladder, hearing organs, kidneys, liver and respiratory system
n-Hexane	Category 2	Not determined	Not determined
Benzene	Category 1	Not determined	Not determined
Ethylbenzene	Category 2	Not determined	hearing organs

**Aspiration hazard**

Name	Result
Light Petroleum Distillate	ASPIRATION HAZARD - Category 1
Gasoline, natural	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1
n-Hexane	ASPIRATION HAZARD - Category 1
Benzene	ASPIRATION HAZARD - Category 1
Ethylbenzene	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
tert-Butyl methyl ether	Acute LC50 672000 µg/L Fresh water	Fish - Pimephales promelas	96 hours
Toluene	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
Ethanol	Chronic NOEC 2 mg/L Fresh water	Daphnia - Daphnia magna	21 days
	Acute EC50 1074 mg/L Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute LC50 5680 mg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 11000000 µg/L Marine water	Fish - Alburnus alburnus	96 hours
	Chronic NOEC 4.995 mg/L Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 100 µl/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 0.375 µl/L Fresh water	Fish - Gambusia holbrooki - Larvae	12 weeks
n-Hexane	Acute LC50 2500 µg/L Fresh water	Fish - Pimephales promelas	96 hours
Benzene	Acute EC50 1600000 µg/L Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 21 mg/L Marine water	Crustaceans - Artemia salina	48 hours
	Chronic NOEC 98 mg/L Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 1.5 to 5.4 µl/L Marine water	Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling)	4 weeks
1,2,4-Trimethylbenzene	Acute LC50 4910 µg/L Marine water	Crustaceans - Elasmopus pectenicrus - Adult	48 hours
Ethylbenzene	Acute LC50 7720 µg/L Fresh water	Fish - Pimephales promelas	96 hours
	Acute EC50 13300 µg/L Fresh water	Crustaceans - Artemia sp. - Nauplii	48 hours
	Acute LC50 13900 µg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Naphthalene	Acute EC50 1600 µg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours

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Acute LC50 2350 µg/L Marine water	Crustaceans - Palaemonetes pugio	48 hours
Acute LC50 213 µg/L Fresh water	Fish - Melanotaenia fluviatilis - Larvae	96 hours
Chronic NOEC 0.5 mg/L Marine water	Crustaceans - Uca pugnax - Adult	3 weeks
Chronic NOEC 1.5 mg/L Fresh water	Fish - Oreochromis mossambicus	60 days

**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
tert-Butyl methyl ether	1.04	1.5	low
Xylene	3.12	8.1 to 25.9	low
Toluene	2.73	90	low
Ethanol	-0.35	-	low
n-Hexane	4	501.187	high
Benzene	2.13	11	low
1,2,4-Trimethylbenzene	3.63	243	low
Ethylbenzene	3.6	-	low
Naphthalene	3.4	36.5 to 168	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, Marine pollutant (Gasoline, natural, n-Hexane) RQ (Benzene, Xylene)

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

**Section 15. Regulatory information**

**U.S. Federal regulations** : TSCA 8(a) PAIR: Naphthalene  
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; Naphthalene  
Clean Water Act (CWA) 311: Xylene; Toluene; Benzene; Ethylbenzene; Naphthalene  
Clean Air Act (CAA) 112 regulated flammable substances: Butane

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** : FLAMMABLE LIQUIDS - Category 1  
SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A  
GERM CELL MUTAGENICITY - Category 1  
CARCINOGENICITY - Category 1A  
TOXIC TO REPRODUCTION (Fertility) - Category 2  
TOXIC TO REPRODUCTION (Unborn child) - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (bladder, hearing organs, kidneys, liver, respiratory system) - Category 1  
ASPIRATION HAZARD - Category 1

**Composition/information on ingredients**



**Top Tier Detergent, Regular, Midgrade & Premium Unleaded Gasoline**

<b>Name</b>	<b>Classification</b>
Gasoline, natural	FLAMMABLE LIQUIDS - Category 2 GERM CELL MUTAGENICITY - Category 1B CARCINOGENICITY - Category 1B ASPIRATION HAZARD - Category 1
tert-Butyl methyl ether	FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION/IRRITATION - Category 2
Xylene	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4
Toluene	SKIN CORROSION/IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (bladder, hearing organs, kidneys, liver, respiratory system) - Category 2
Ethanol	ASPIRATION HAZARD - Category 1 FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
n-Hexane	FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Fertility) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Benzene	ASPIRATION HAZARD - Category 1 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A GERM CELL MUTAGENICITY - Category 1B CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
1,2,4-Trimethylbenzene	ASPIRATION HAZARD - Category 1 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Ethylbenzene	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2
Naphthalene	ASPIRATION HAZARD - Category 1 FLAMMABLE SOLIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 2

**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.

<b>Product name</b>	<b>CAS number</b>	<b>%</b>
tert-Butyl methyl ether	1634-04-4	10 - 30
Xylene	1330-20-7	10 - 30
Toluene	108-88-3	10 - 30
n-Hexane	110-54-3	5 - 10
Benzene	71-43-2	1 - 5
1,2,4-Trimethylbenzene	95-63-6	1 - 5
Ethylbenzene	100-41-4	1 - 5
Naphthalene	91-20-3	0.1 - 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: Gasoline, natural; Butane; tert-Butyl methyl ether; Xylene; Toluene; Ethanol; n-Hexane; Benzene; 1,2,4-Trimethylbenzene; Ethylbenzene; Naphthalene

**Top Tier Detergent, Regular, Midgrade & Premium Unleaded Gasoline**

- New York** : The following components are listed: tert-Butyl methyl ether; Xylene; Toluene; n-Hexane; Benzene; Ethylbenzene; Naphthalene
- New Jersey** : The following components are listed: Gasoline, natural; Butane; tert-Butyl methyl ether; Xylene; Toluene; Ethanol; n-Hexane; Benzene; 1,2,4-Trimethylbenzene; Ethylbenzene; Naphthalene
- Pennsylvania** : The following components are listed: Butane; tert-Butyl methyl ether; Xylene; Toluene; Ethanol; n-Hexane; Benzene; 1,2,4-Trimethylbenzene; Ethylbenzene; Naphthalene

**California Prop. 65**

**⚠ WARNING:** This product can expose you to Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Ethylbenzene, Naphthalene, which are known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Ingredient name	No significant risk level	Maximum acceptable dosage level
Toluene	-	Yes.
Benzene	Yes.	Yes.
Ethylbenzene	Yes.	-
Naphthalene	Yes.	-

**Section 16. Other information**

<b>Review date</b>	: 06/02/2021	<b>Supersedes</b>	: 11/22/2017
<b>Revised Section(s)</b>	: None.	<b>Prepared by</b>	: KMK Regulatory Services Inc.

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