SAFETY DATA SHEET



Section 1. Identification

| CHS Inc. P.O. Box 64089 Mail station 525 St. Paul, MN 55164- | 0089 | | mergency (CHEMTREC) Technical Information SDS Information | : | 1-800-424-9300 1-651-355-8443 1-651-355-8445 |
|---|------|---|---|---|--|
| Product name | : | Top Tier Detergent, Regular, Midgrade & Premium Unleaded Gasoline | SDS no. | : | 0147- M6A0 |
| Common name | : | Unleaded Gasoline, Premium Unleaded Gasoline | Revision date | : | 02/24/2016 |
| 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 1 SKIN IRRITATION - Category 2 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 (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - 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 | Extremely flammable liquid and vapor. Causes serious eye irritation. Causes skin irritation. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure. (hearing organs) Toxic 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. 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. Use only outdoors or in a wel ventilated area. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. | |

Top Tier Detergent, Regular, Midgrade & Premium Unleaded Gasoline Collect spillage. Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF Response : INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. 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. (HNOC) Hazardous Material Information System (U.S.A.) Health : 2 Flammability : 4 Physical hazards: 0 National Fire Protection Association (U.S.A.) Flammability : Instability: 0 Health : 2 4

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 | 89 - 100 | 8006-61-9 |
| Xylene | ≥10 - ≤25 | 1330-20-7 |
| Toluene | ≥10 - ≤25 | 108-88-3 |
| Ethanol | <11 | 64-17-5 |
| 1,2,4-Trimethylbenzene | ≥3 - ≤5 | 95-63-6 |
| Benzene | ≥3 - ≤5 | 71-43-2 |
| Ethylbenzene | ≥3 - ≤5 | 100-41-4 |
| n-Hexane | ≥3 - <5 | 110-54-3 |
| Naphthalene | ≥0.3 - <1 | 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 me | easures | |
|---------------------------------------|--|--|
| 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, a | cute and delayed | |
| Potential acute health effects | | |
| Eye contact | : Causes serious eye irritation. | |
| Inhalation | : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. | |
| Skin contact | : Causes skin irritation. | |
| Ingestion | : Can cause central nervous system (CNS) depression. 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 at | tention 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

| Suitable extinguishing media | : Use dry chemical, CO ₂ , water spray (fog) or foam. |
|---|--|
| Unsuitable extinguishing media | : Do not use water jet or water-based fire extinguishers. |
| pecific 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) explode when heat (welding, cutting, etc.) is applied. |
| azardous thermal decomposition products | Decomposition products may include the following materials: carbon dioxide carbon monoxide |
| pecial 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 liqui 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. |
| pecial protective equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparat (SCBA) with a full face-piece operated in positive pressure mode. |
| | Section 6. Accidental release measures |

| 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 contain | ment 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 | : | 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. |

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|-----------------|---|
| Xylene | ACGIH TLV (United States, 3/2015). STEL: 651 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. OSHA PEL (United States, 2/2013). |
| Toluene | TWA: 100 ppm 8 hours. TWA: 435 mg/m ³ 8 hours. NIOSH REL (United States, 10/2013). STEL: 560 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. |

| | Top Tier Detergent, Regular, Mugrade & Preinfulli Onleadeu Gasonie |
|------------------------------------|---|
| Ethanol | TWA: 375 mg/m³ 10 hours. TWA: 100 ppm 10 hours. OSHA PEL Z2 (United States, 2/2013). AMP: 500 ppm 10 minutes. CEIL: 300 ppm TWA: 200 ppm 8 hours. ACGIH TLV (United States, 3/2015). TWA: 20 ppm 8 hours. ACGIH TLV (United States, 3/2015). STEL: 1000 ppm 15 minutes. |
| | NIOSH REL (United States, 10/2013). TWA: 1000 ppm 10 hours. TWA: 1900 mg/m ³ 10 hours. OSHA PEL (United States, 2/2013). TWA: 1000 ppm 8 hours. |
| 1,2,4-Trimethylbenzene | TWA: 1900 mg/m ³ 8 hours. ACGIH TLV (United States, 3/2015). TWA: 123 mg/m ³ 8 hours. TWA: 25 ppm 8 hours. NIOSH REL (United States, 10/2013). TWA: 125 mg/m ³ 10 hours. |
| Benzene | TWA: 25 ppm 10 hours. ACGIH TLV (United States, 3/2015). Absorbed through skin. STEL: 8 mg/m ³ 15 minutes. STEL: 2.5 ppm 15 minutes. TWA: 1.6 mg/m ³ 8 hours. TWA: 0.5 ppm 8 hours. NIOSH REL (United States, 10/2013). |
| | STEL: 1 ppm 15 minutes. TWA: 0.1 ppm 10 hours. OSHA PEL (United States, 2/2013). STEL: 5 ppm 15 minutes. TWA: 1 ppm 8 hours. OSHA PEL Z2 (United States, 2/2013). AMP: 50 ppm 10 minutes. CEIL: 25 ppm TWA: 10 ppm 8 hours. |
| Ethylbenzene | ACGIH TLV (United States, 3/2015). TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2013). STEL: 545 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 435 mg/m ³ 10 hours. TWA: 100 ppm 10 hours. OSHA PEL (United States, 2/2013). TWA: 435 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. |
| n-Hexane | ACGIH TLV (United States, 3/2015). Absorbed through skin. TWA: 50 ppm 8 hours. NIOSH REL (United States, 10/2013). TWA: 180 mg/m ³ 10 hours. TWA: 50 ppm 10 hours. OSHA PEL (United States, 2/2013). TWA: 1800 mg/m ³ 8 hours. TWA: 500 ppm 8 hours. |
| Naphthalene | ACGIH TLV (United States, 3/2015). Absorbed through skin. TWA: 52 mg/m ³ 8 hours. TWA: 10 ppm 8 hours. NIOSH REL (United States, 10/2013). STEL: 75 mg/m ³ 15 minutes. STEL: 15 ppm 15 minutes. TWA: 50 mg/m ³ 10 hours. TWA: 10 ppm 10 hours. OSHA PEL (United States, 2/2013). TWA: 50 mg/m ³ 8 hours. TWA: 10 ppm 8 hours. |
| Appropriate engineering controls : | Use only with adequate ventilation. |
| | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. |
| Individual protection 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 Skin protection Hand protection Body protection Other skin protection Respiratory protection

- : Recommended: Splash goggles and a face shield, where splash hazard exists.
- : 4 8 hours (breakthrough time): Nitrile gloves.
- : Recommended: Long sleeved coveralls.
- : Recommended: Impervious boots.
- : 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 | | Relative density | : 0.72 |
|---------------------------------|--|------------------------------|---|
| Physical state | : Liquid. | Evaporation rate | : Slower. |
| Color | : Reddish golden brown. | Solubility | : Insoluble in the following materials: cold water and hot water. |
| Odor | : Gasoline | Solubility in water | : Negligible. |
| Odor threshold | : 10 ppm | Partition coefficient: n- | : Not available. |
| рН | : Not available. | octanol/water | |
| Melting point | : Not available. | Auto-ignition temperature | : 257.22 to 454.44°C (495 to 850°F) |
| Boiling point | : 26.66°C (80°F) | Decomposition temperature | : Not available. |
| Flash point | : Closed cup: -40°C (-40°F) [Pensky-Martens. | SADT | : Not available. |
| Flammability | : Not available. | Viscosity | : Not available. |
| Lower and upper | : Lower: 1.4% | Vapor pressure | : 53.3 kPa (400 mm Hg) (68°F) |
| explosive (flammable) limits | Upper: 7.6% | Vapor density | : 4 [Air = 1] |

Section 10. Stability and reactivity

| Reactivity | ic test data related to reactivity available for this produc | ct or its ingredients. |
|------------------------------------|--|--|
| Chemical stability | uct is stable. | |
| Possibility of hazardous reactions | rmal conditions of storage and use, hazardous reaction | ns will not occur. |
| | | |
| Conditions to avoid | possible sources of ignition (spark or flame). Do not pr | ressurize, cut, weld, braze, solder, drill, grind or |
| | ontainers to heat or sources of ignition. Do not allow va | apor to accumulate in low or confined areas. |
| Incompatible materials | or incompatible with the following materials: oxidizing n | naterials, acids and alkalis. |
| Hazardous decomposition products | rmal conditions of storage and use, hazardous decomp | position products should not be produced. |
| | | |

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|-----------------------|---------|--------------------------|----------|
| Xylene | LC50 Inhalation Gas. | Rat | 5000 ppm | 4 hours |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| Toluene | LC50 Inhalation Vapor | Rat | 49 g/m³ | 4 hours |
| | LD50 Oral | Rat | 636 mg/kg | - |
| Ethanol | LC50 Inhalation Vapor | Rat | 124700 mg/m ³ | 4 hours |
| | LD50 Oral | Rat | 7 g/kg | - |
| 1,2,4-Trimethylbenzene | LC50 Inhalation Vapor | Rat | 18000 mg/m ³ | 4 hours |
| - | LD50 Oral | Rat | 5 g/kg | - |
| Benzene | LD50 Oral | Rat | 930 mg/kg | - |
| Ethylbenzene | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| - | LD50 Oral | Rat | 3500 mg/kg | - |
| n-Hexane | LC50 Inhalation Gas. | Rat | 48000 ppm | 4 hours |
| | LD50 Oral | Rat | 15840 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 |
|-------------------------|--------------------------|---------|-------|------------------|-------------|
| Gasoline, natural | Eyes - Mild irritant | Human | - | 8 hours 140 ppm | - |
| | Eves - Moderate irritant | Man | - | 1 hours 500 ppm | - |
| Xylene | Eyes - Mild irritant | Rabbit | - | 87 mg | - |
| , | Eves - 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 | |
| | 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 | - |
| | Skin - Moderate irritant | Rabbit | - | 500 mg | - |
| Ethanol | Eyes - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| | Eyes - Moderate irritant | Rabbit | - | 0.066666667 | - |
| | | | | minutes 100 mg | |
| | Eyes - Moderate irritant | Rabbit | - | 100 µL | - |
| | 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 | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 15 mg | - |
| Ethylbenzene | Eyes - Severe irritant | Rabbit | - | 500 mg | - |
| - | Skin - Mild irritant | Rabbit | - | 24 hours 15 mg | - |
| n-Hexane | Eyes - Mild irritant | Rabbit | - | 10 mg | - |
| Naphthalene | Skin - Mild irritant | Rabbit | - | 495 mg | - |
| - | Skin - Severe irritant | Rabbit | - | 24 hours 0.05 mL | - |

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 | - |
| 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 1,2,4-Trimethylbenzene n-Hexane | Category 3 | Not applicable. | Narcotic effects Respiratory tract irritation Narcotic effects |

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 |
| Ethylbenzene | Category 2 | Not determined | hearing organs |
| n-Hexane | Category 2 | Not determined | Not determined |

Aspiration hazard

| Name | Result |
|----------------------------|--------------------------------|
| Light Petroleum Distillate | ASPIRATION HAZARD - Category 1 |
| Gasoline, natural | ASPIRATION HAZARD - Category 1 |
| Toluene | ASPIRATION HAZARD - Category 1 |
| Benzene | ASPIRATION HAZARD - Category 1 |
| Ethylbenzene | ASPIRATION HAZARD - Category 1 |
| n-Hexane | ASPIRATION HAZARD - Category 1 |

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

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Section 12. Ecological information

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|---|--|----------|
| Gasoline, natural | 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 |
| Xylene | Acute IC50 10 mg/L | Algae | 72 hours |
| | Acute LC50 8500 µg/L Marine water | Crustaceans - Palaemonetes pugio | 48 hours |
| | Acute LC50 13400 µg/L Fresh water | Fish - Pimephales promelas | 96 hours |
| Toluene | 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 1000 µg/L Fresh water | Daphnia - Daphnia magna | 21 days |
| Ethanol | 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 |
| 1,2,4-Trimethylbenzene | 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 |
| Benzene | Acute EC50 29000 µg/L Fresh water | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 1600000 µg/L Fresh water | Algae - Selenastrum sp. | 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 ul/L Fresh water | Fish - Oncorhynchus gorbuscha - Fry | 96 hours |
| | Chronic NOEC 98 mg/L Fresh water | Daphnia - Daphnia magna | 21 days |
| | Chronic NOEC 1.5 to 5.4 ul/L Marine water | Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling) | 4 weeks |
| Ethylbenzene | 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 6530 µg/L Fresh water | Crustaceans - Artemia sp Nauplii | 48 hours |
| | Acute EC50 2970 µg/L Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 4200 µg/L Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| n-Hexane | Acute LC50 113000 µg/L Fresh water | Fish - Oreochromis mossambicus | 96 hours |
| Naphthalene | Acute EC50 1600 µg/L Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| - | 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 |

Persistence and degradability

There is no data available.

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential | |
|-------------------------|--------|-------------|-----------|--|
| Gasoline, natural | - | 10 to 2500 | high | |
| Xylene | 3.12 | 8.1 to 25.9 | low | |
| Toluene | 2.73 | 90 | low | |
| Ethanol | -0.35 | - | low | |
| 1,2,4-Trimethylbenzene | 3.63 | 243 | low | |
| Benzene | 2.13 | 11 | low | |
| Ethylbenzene | 3.6 | - | low | |
| n-Hexane | 4 | 501.187 | high | |
| Naphthalene | 3.4 | 36.5 to 168 | low | |

Mobility in soil

Soil/water partition coefficient (Koc)

Other adverse effects

: There is no data available.

: No known significant effects or critical hazards.

| sposal methods | | | | | ts should comply w jional local authority | ith the requirements of requirements. | of environmenta |
|--|--|---|---|---|--|---|---|
| | | | - | rt informat | | | |
| | | | • | | | | |
| | UN1203 | DOT pr | oper shippiı | | | ne, natural, Xylene). N n-Hexane) RQ (Benze | |
| OT Hazard Class(es) 3 | | PG I | | ſ | DOT EMER. RESP | ONSE GUIDE NO. 12 | 28 |
| | | Section 15. | Regulato | ory information | tion | | |
| S. Federal regulations | TSCA 8 United S Clean V | Vater Act (CWA) | /Partial exen (TSCA 8b): . 307: Toluene | All components ; Benzene; Etl | termined s are listed or exem hylbenzene; Naphtł zene; Ethylbenzene | nalene | |
| an Air Act Section 602 Class I Su an Air Act Section 602 Class II Su | | : Not listed : Not listed | | | (Precursor Chem s (Essential Chem | | |
| an Air Act Section 112(b) Hazard | ous Air Polluta | ants (HAPs) | : Listed | | | | |
| an Air Act Section 112(b) Hazard SARA 302/304 | ous Air Polluta | ants (HAPs) | : Listed | | | | |
| | | ants (HAPs) | : Listed | | | | |
| SARA 302/304 | | ants (HAPs) | : Listed | | | | |
| SARA 302/304 Composition/information on ing | | | : Listed | | | | |
| SARA 302/304 Composition/information on ing No products were found. | <u>gredients</u> | | : Listed | | | | |
| SARA 302/304 Composition/information on ing No products were found. SARA 304 RQ | gredients : Not app : Fire haz Immedia | licable. | hazard | | | | |
| SARA 302/304 Composition/information on ing No products were found. SARA 304 RQ SARA 311/312 | gredients : Not app : Fire haz Immedia Delayed | licable. ard ate (acute) health | hazard | | | | |
| SARA 302/304 Composition/information on ing No products were found. SARA 304 RQ SARA 311/312 Hazard classifications | gredients : Not app : Fire haz Immedia Delayed | licable. ard ate (acute) health | hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
| SARA 302/304 <u>Composition/information on ing</u> No products were found. SARA 304 RQ SARA 311/312 Hazard classifications <u>Composition/information on ing</u> Name Gasoline, natural | gredients : Not app : Fire haz Immedia Delayed | licable. ard ate (acute) health (chronic) health % 89 - 100 | hazard hazard Fire hazard No. | release of pressure No. | No. | (acute) health hazard No. | (chronic) health hazard Yes. |
| SARA 302/304 Composition/information on ing No products were found. SARA 304 RQ SARA 311/312 Hazard classifications Composition/information on ing Name Gasoline, natural Xylene | gredients : Not app : Fire haz Immedia Delayed | licable. ard ate (acute) health (chronic) health % 89 - 100 ≥10 - ≤25 | hazard hazard Fire hazard No. Yes. | release of pressure No. No. | No. No. | (acute) health hazard No. Yes. | (chronic) health hazard Yes. No. |
| SARA 302/304 Composition/information on ing No products were found. SARA 304 RQ SARA 311/312 Hazard classifications Composition/information on ing Name Gasoline, natural Xylene Toluene | gredients : Not app : Fire haz Immedia Delayed | licable. ard ate (acute) health (chronic) health % 89 - 100 | hazard hazard Fire hazard No. Yes. Yes. | release of pressure No. | No. No. No. No. | (acute) health hazard No. Yes. Yes. | (chronic) health hazard Yes. No. Yes. |
| SARA 302/304 Composition/information on ing No products were found. SARA 304 RQ SARA 311/312 Hazard classifications Composition/information on ing Name Gasoline, natural Xylene Toluene Ethanol | gredients : Not app : Fire haz Immedia Delayed | licable. ard ate (acute) health (chronic) health % 89 - 100 \geq 10 - \leq 25 \geq 10 - \leq 25 | hazard hazard Fire hazard No. Yes. | release of pressure No. No. No. | No. No. | (acute) health hazard No. Yes. | (chronic) health hazard Yes. No. |
| SARA 302/304 Composition/information on ing No products were found. SARA 304 RQ SARA 311/312 Hazard classifications Composition/information on ing Name Gasoline, natural Xylene Toluene | gredients : Not app : Fire haz Immedia Delayed | licable. ard ate (acute) health (chronic) health % 89 - 100 $\geq 10 - \leq 25$ $\geq 10 - \leq 25$ ≤ 11 | hazard hazard Fire hazard No. Yes. Yes. Yes. Yes. | release of pressure No. No. No. No. | No. No. No. No. No. | (acute) health hazard No. Yes. Yes. Yes. | (chronic) health hazard Yes. No. Yes. No. |
| SARA 302/304 Composition/information on ing No products were found. SARA 304 RQ SARA 311/312 Hazard classifications Composition/information on ing Name Gasoline, natural Xylene Toluene Ethanol 1,2,4-Trimethylbenzene | gredients : Not app : Fire haz Immedia Delayed | licable. ard ate (acute) health (chronic) health 89 - 100 $\geq 10 - \leq 25$ $\geq 10 - \leq 25$ $\leq 11 - \leq 25$ $\leq 11 - \leq 25$ $\leq 11 - \leq 25$ | hazard hazard Fire hazard No. Yes. Yes. Yes. Yes. Yes. Yes. | release of pressure No. No. No. No. No. | No. No. No. No. No. No. | (acute) health hazard No. Yes. Yes. Yes. Yes. Yes. | (chronic) health hazard Yes. No. Yes. No. No. |
| SARA 302/304 Composition/information on ing No products were found. SARA 304 RQ SARA 311/312 Hazard classifications Composition/information on ing Name Gasoline, natural Xylene Toluene Ethanol 1,2,4-Trimethylbenzene Benzene | gredients : Not app : Fire haz Immedia Delayed | licable. ard ate (acute) health (chronic) health 1 89 - 100 $\geq 10 - \leq 25$ $\leq 10 - \leq 25$ $\leq 11 - \leq 25$ $\leq 11 - \leq 25$ $\leq 11 - \leq 25$ $\leq 3 - \leq 5$ $\geq 3 - \leq 5$ | hazard hazard Fire hazard No. Yes. Yes. Yes. Yes. Yes. Yes. Yes. | release of pressure No. No. No. No. No. No. No. | No. No. No. No. No. No. No. | (acute) health hazard No. Yes. Yes. Yes. Yes. Yes. Yes. | (chronic) health hazard Yes. No. Yes. No. No. Yes. |

Section 13. Disposal considerations

| Product name | CAS number | % |
|------------------------|------------|---------|
| Xylene | 1330-20-7 | 10 - 30 |
| Toluene | 108-88-3 | 10 - 30 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 5 - 10 |
| Benzene | 71-43-2 | 3 - 5 |
| Ethylbenzene | 100-41-4 | 3 - 5 |
| n-Hexane | 110-54-3 | 3 - 5 |
| Naphthalene | 91-20-3 | 0.3 - 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; Toluene; Xylene; Ethanol; Benzene; 1,2, 4-Trimethylbenzene; Ethylbenzene; n-Hexane

New York

: The following components are listed: Toluene; Xylene; Benzene; Ethylbenzene; n-Hexane; Naphthalene

New Jersey

Pennsylvania

4-Trimethylbenzene; Ethylbenzene; n-Hexane; NaphthaleneThe following components are listed: Toluene; Xylene; Ethanol; Benzene; 1,2,4-Trimethylbenzene;

California Prop. 65

Ethylbenzene; n-Hexane; Naphthalene
WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

: The following components are listed: Gasoline, natural; Toluene; Xylene; Ethanol; Benzene; 1,2,

| 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. | | | 24 μg/day (ingestion) 49 μg/day (inhalation) | | | |
| Ethylbenzene | Yes. | | 41 µg/day (ingestion) 54 µg/day (inhalation) | No. | | | |
| Naphthalene Cumene | | No. No. | | No. No. | | | |

Section 16. Other information

| Revision date | : 02/24/2016 | Supersedes : 06/15/2015 |
|--------------------|---|--|
| Revised Section(s) | : 1, 2, 3, 4, 7, 8, 11, 12, 14, 15, 16. | Prepared by : KMK Regulatory Services Inc. |
| Notice to reader | | |

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