

# SAFETY DATA SHEET

TruFuel 40 Fuel



## Section 1. Identification

**GHS product identifier** : TruFuel 40 Fuel  
**Product code** : 301164210000  
**Other means of identification** : Not available.  
**Product type** : Liquid.

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

| Identified uses                |        |
|--------------------------------|--------|
| Industrial applications: Fuel. |        |
| Uses advised against           | Reason |
| None known.                    |        |

**Supplier's details** : Calumet Branded Products, LLC  
2780 Waterfront Pkwy E. Drive Suite 200  
Indianapolis, IN 46214  
USA  
Technical Services:317-328-5660

**Emergency telephone number** : 24 hr. CHEMTREC 1-800-424-9300 / International 1-703-527-3887

## Section 2. Hazards identification

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

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 2  
SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2A  
CARCINOGENICITY - Category 2  
TOXIC TO REPRODUCTION (Fertility) - Category 2  
TOXIC TO REPRODUCTION (Unborn child) - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs, kidneys, liver) - Category 2  
ASPIRATION HAZARD - Category 1  
AQUATIC HAZARD (ACUTE) - Category 3  
AQUATIC HAZARD (LONG-TERM) - Category 2  
Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 18.7%  
Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 100%  
Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 66.3%

### GHS label elements

**Hazard pictograms** :



## Section 2. Hazards identification

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Signal word</b>                      | : Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Hazard statements</b>                | : Highly flammable liquid and vapor.<br>Causes serious eye irritation.<br>Causes skin irritation.<br>Suspected of damaging fertility or the unborn child.<br>Suspected of causing cancer.<br>May be fatal if swallowed and enters airways.<br>May cause respiratory irritation.<br>May cause drowsiness or dizziness.<br>May cause damage to organs through prolonged or repeated exposure. (hearing organs, kidneys, liver)<br>Toxic to aquatic life with long lasting effects.                                                                                                                                                                                                                                                                                                          |
| <b><u>Precautionary statements</u></b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Prevention</b>                       | : 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 well-ventilated area. Avoid release to the environment. Do not breathe vapor. Wash hands thoroughly after handling.                                                                                                                              |
| <b>Response</b>                         | : Collect spillage. Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF 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. |
| <b>Storage</b>                          | : Store locked up. Store in a well-ventilated place. Keep cool.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Disposal</b>                         | : Dispose of contents and container in accordance with all local, regional, national and international regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Supplemental label elements</b>      | : Avoid contact with skin and clothing. Wash thoroughly after handling.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Hazards not otherwise classified</b> | : Prolonged or repeated contact may dry skin and cause irritation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Section 3. Composition/information on ingredients

|                                      |                  |
|--------------------------------------|------------------|
| <b>Substance/mixture</b>             | : Mixture        |
| <b>Other means of identification</b> | : Not available. |

| Ingredient name                                         | %         | CAS number |
|---------------------------------------------------------|-----------|------------|
| Naphtha (petroleum), full-range alkylate, butane-contg. | ≥50 - ≤75 | 68527-27-5 |
| toluene                                                 | ≥25 - ≤30 | 108-88-3   |
| isopentane                                              | ≤10       | 78-78-4    |
| pentane                                                 | ≤10       | 109-66-0   |
| ethylbenzene                                            | ≤2.6      | 100-41-4   |
| Naphtha (petroleum), hydrotreated light                 | <1        | 64742-49-0 |
| 1,2,4-trimethylbenzene                                  | ≤0.1      | 95-63-6    |

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** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute 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. May cause respiratory irritation.
- Skin contact** : Causes skin irritation. Defatting to the skin.
- 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  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

## Section 4. First aid measures

- Ingestion** : Adverse symptoms may include the following:  
 nausea or vomiting  
 reduced fetal weight  
 increase in fetal deaths  
 skeletal malformations

### 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.

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.

- Specific hazards arising from the chemical** : Highly 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. 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** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

- 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** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

## Section 6. Accidental release measures

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- 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                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Naphtha (petroleum), full-range alkylate, butane-contg.<br><br>toluene | <b>ACGIH TLV (United States).</b><br>TWA: 200 ppm 8 hours.<br><b>ACGIH TLV (United States, 3/2019).</b><br>TWA: 20 ppm 8 hours.<br><b>OSHA PEL Z2 (United States, 2/2013).</b><br>TWA: 200 ppm 8 hours.<br>CEIL: 300 ppm<br>AMP: 500 ppm 10 minutes.<br><b>OSHA PEL 1989 (United States, 3/1989).</b> |

## Section 8. Exposure controls/personal protection

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         | <p>TWA: 100 ppm 8 hours.<br/> TWA: 375 mg/m<sup>3</sup> 8 hours.<br/> STEL: 150 ppm 15 minutes.<br/> STEL: 560 mg/m<sup>3</sup> 15 minutes.<br/> <b>NIOSH REL (United States, 10/2016).</b><br/> TWA: 100 ppm 10 hours.<br/> TWA: 375 mg/m<sup>3</sup> 10 hours.<br/> STEL: 150 ppm 15 minutes.<br/> STEL: 560 mg/m<sup>3</sup> 15 minutes.</p>                                                                                                                                                                                                                                                     |
| isopentane                              | <p><b>ACGIH TLV (United States, 3/2019).</b><br/> TWA: 1000 ppm 8 hours.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| pentane                                 | <p><b>ACGIH TLV (United States, 3/2019).</b><br/> TWA: 1000 ppm 8 hours.<br/> <b>OSHA PEL (United States, 5/2018).</b><br/> TWA: 1000 ppm 8 hours.<br/> TWA: 2950 mg/m<sup>3</sup> 8 hours.<br/> <b>OSHA PEL 1989 (United States, 3/1989).</b><br/> TWA: 600 ppm 8 hours.<br/> TWA: 1800 mg/m<sup>3</sup> 8 hours.<br/> STEL: 750 ppm 15 minutes.<br/> STEL: 2250 mg/m<sup>3</sup> 15 minutes.<br/> <b>NIOSH REL (United States, 10/2016).</b><br/> TWA: 120 ppm 10 hours.<br/> TWA: 350 mg/m<sup>3</sup> 10 hours.<br/> CEIL: 610 ppm 15 minutes.<br/> CEIL: 1800 mg/m<sup>3</sup> 15 minutes.</p> |
| ethylbenzene                            | <p><b>ACGIH TLV (United States, 3/2019).</b><br/> TWA: 20 ppm 8 hours.<br/> <b>OSHA PEL (United States, 5/2018).</b><br/> TWA: 100 ppm 8 hours.<br/> TWA: 435 mg/m<sup>3</sup> 8 hours.<br/> <b>OSHA PEL 1989 (United States, 3/1989).</b><br/> TWA: 100 ppm 8 hours.<br/> TWA: 435 mg/m<sup>3</sup> 8 hours.<br/> STEL: 125 ppm 15 minutes.<br/> STEL: 545 mg/m<sup>3</sup> 15 minutes.<br/> <b>NIOSH REL (United States, 10/2016).</b><br/> TWA: 100 ppm 10 hours.<br/> TWA: 435 mg/m<sup>3</sup> 10 hours.<br/> STEL: 125 ppm 15 minutes.<br/> STEL: 545 mg/m<sup>3</sup> 15 minutes.</p>        |
| Naphtha (petroleum), hydrotreated light | <p><b>OSHA PEL (United States).</b><br/> TWA: 500 ppm 8 hours.<br/> TWA: 1800 mg/m<sup>3</sup> 8 hours.<br/> <b>ACGIH TLV (United States).</b><br/> TWA: 50 ppm 8 hours.</p>                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 1,2,4-trimethylbenzene                  | <p><b>ACGIH TLV (United States, 3/2019).</b><br/> TWA: 25 ppm 8 hours.<br/> TWA: 123 mg/m<sup>3</sup> 8 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>NIOSH REL (United States, 10/2016).</b><br/> TWA: 25 ppm 10 hours.<br/> TWA: 125 mg/m<sup>3</sup> 10 hours.</p>                                                                                                                                                                                                                                         |

## Section 8. Exposure controls/personal protection

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appropriate engineering controls</b>      | : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.                                                                                                                                                                                                                          |
| <b>Environmental exposure controls</b>       | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.                                                                                                                                                                                                                                                                               |
| <b><u>Individual protection measures</u></b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Hygiene measures</b>                      | : 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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.                                                                                                                                                                                                                |
| <b>Eye/face protection</b>                   | : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.                                                                                                                                                                                                                                                         |
| <b><u>Skin protection</u></b>                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Hand protection</b>                       | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
| <b>Body protection</b>                       | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.                                                                                                                                                                                    |
| <b>Other skin protection</b>                 | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Respiratory protection</b>                | : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.                                                                                                                                                                                                                                                                                                                           |

## Section 9. Physical and chemical properties

### Appearance

|                                                     |                                |
|-----------------------------------------------------|--------------------------------|
| <b>Physical state</b>                               | : Liquid. [Mobile liquid.]     |
| <b>Color</b>                                        | : Green.                       |
| <b>Odor</b>                                         | : Characteristic. Hydrocarbon. |
| <b>Odor threshold</b>                               | : Not available.               |
| <b>pH</b>                                           | : Not available.               |
| <b>Melting point</b>                                | : Not available.               |
| <b>Boiling point</b>                                | : >54.444°C (>130°F)           |
| <b>Flash point</b>                                  | : Closed cup: -40°C (-40°F)    |
| <b>Evaporation rate</b>                             | : Not available.               |
| <b>Flammability (solid, gas)</b>                    | : Not available.               |
| <b>Lower and upper explosive (flammable) limits</b> | : Not available.               |
| <b>Vapor pressure</b>                               | : Not available.               |

## Section 9. Physical and chemical properties

|                                               |                                                                   |
|-----------------------------------------------|-------------------------------------------------------------------|
| <b>Vapor density</b>                          | : Not available.                                                  |
| <b>Relative density</b>                       | : 0.732                                                           |
| <b>Solubility</b>                             | : Insoluble in the following materials: cold water and hot water. |
| <b>Solubility in water</b>                    | : Not available.                                                  |
| <b>Partition coefficient: n-octanol/water</b> | : Not available.                                                  |
| <b>Auto-ignition temperature</b>              | : Not available.                                                  |
| <b>Decomposition temperature</b>              | : Not available.                                                  |
| <b>Viscosity</b>                              | : Kinematic (40°C (104°F)): <0.205 cm²/s (<20.5 cSt)              |
| <b>Flow time (ISO 2431)</b>                   | : Not available.                                                  |

## Section 10. Stability and reactivity

|                                           |                                                                                                                                                                           |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.                                                                              |
| <b>Chemical stability</b>                 | : The product is stable.                                                                                                                                                  |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.                                                                                         |
| <b>Conditions to avoid</b>                | : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| <b>Incompatible materials</b>             | : Reactive or incompatible with the following materials:<br>oxidizing materials                                                                                           |
| <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 |
|-----------------------------------------------------------------|-----------------------|---------|--------------|----------|
| Naphtha (petroleum), full-range alkylate, butane-contg. toluene | LD50 Oral             | Rat     | >5000 mg/kg  | -        |
|                                                                 | LC50 Inhalation Vapor | Rat     | 49 g/m³      | 4 hours  |
|                                                                 | LD50 Oral             | Rat     | 636 mg/kg    | -        |
|                                                                 | LC50 Inhalation Vapor | Rat     | 280000 mg/m³ | 4 hours  |
| isopentane                                                      | LC50 Inhalation Vapor | Rat     | 364 g/m³     | 4 hours  |
| pentane                                                         | LC50 Inhalation Vapor | Rat     | 4000 ppm     | 4 hours  |
| ethylbenzene                                                    | LC50 Inhalation Gas.  | Rat     | >5000 mg/kg  | -        |
|                                                                 | LD50 Dermal           | Rabbit  | 3500 mg/kg   | -        |
|                                                                 | LD50 Oral             | Rat     | >5.2 mg/l    | 4 hours  |
| Naphtha (petroleum), hydrotreated light                         | LC50 Inhalation Vapor | Rat     | >2000 mg/kg  | -        |
|                                                                 | LD50 Dermal           | Rat     | >5000 mg/kg  | -        |
|                                                                 | LD50 Oral             | Rat     | 18000 mg/m³  | 4 hours  |
| 1,2,4-trimethylbenzene                                          | LC50 Inhalation Vapor | Rat     | 5 g/kg       | -        |
|                                                                 | LD50 Oral             | Rat     |              |          |

#### Irritation/Corrosion

## Section 11. Toxicological information

| Product/ingredient name                 | Result                   | Species | Score | Exposure      | Observation |
|-----------------------------------------|--------------------------|---------|-------|---------------|-------------|
| toluene                                 | Eyes - Mild irritant     | Rabbit  | -     | 0.5 minutes   | -           |
|                                         | Eyes - Mild irritant     | Rabbit  | -     | 100 mg        | -           |
|                                         | Eyes - Severe irritant   | Rabbit  | -     | 870 ug        | -           |
|                                         |                          |         |       | 24 hours 2    | -           |
|                                         |                          |         |       | mg            | -           |
|                                         | Skin - Mild irritant     | Pig     | -     | 24 hours 250  | -           |
|                                         |                          |         |       | UI            | -           |
|                                         | Skin - Mild irritant     | Rabbit  | -     | 435 mg        | -           |
|                                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20   | -           |
|                                         |                          |         |       | mg            | -           |
| ethylbenzene                            | Skin - Moderate irritant | Rabbit  | -     | 500 mg        | -           |
|                                         | Eyes - Severe irritant   | Rabbit  | -     | 500 mg        | -           |
|                                         | Skin - Mild irritant     | Rabbit  | -     | 24 hours 15   | -           |
|                                         |                          |         |       | mg            | -           |
| Naphtha (petroleum), hydrotreated light | Eyes - Mild irritant     | Rabbit  | -     | 10 milligrams | -           |

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

**Conclusion/Summary** : Animal tumorigen. May cause tumors.

### Classification

| Product/ingredient name | OSHA | IARC | NTP |
|-------------------------|------|------|-----|
| toluene                 | -    | 3    | -   |
| ethylbenzene            | -    | 2B   | -   |

### Reproductive toxicity

Not available.

**Conclusion/Summary** : Reproductive toxicant - female Suspected of damaging the unborn child if inhaled.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

| Name                                                            | Category                               | Route of exposure                                     | Target organs                                                        |
|-----------------------------------------------------------------|----------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------|
| Naphtha (petroleum), full-range alkylate, butane-contg. toluene | Category 3<br>Category 3<br>Category 3 | Not applicable.<br>Not applicable.<br>Not applicable. | Narcotic effects<br>Narcotic effects<br>Respiratory tract irritation |
| isopentane                                                      | Category 3                             | Not applicable.                                       | Narcotic effects                                                     |
| pentane                                                         | Category 3                             | Not applicable.                                       | Narcotic effects                                                     |
| ethylbenzene                                                    | Category 3                             | Not applicable.                                       | Narcotic effects                                                     |
| Naphtha (petroleum), hydrotreated light                         | Category 3                             | Not applicable.                                       | Narcotic effects                                                     |
| 1,2,4-trimethylbenzene                                          | Category 3<br>Category 3               | Not applicable.<br>Not applicable.                    | Narcotic effects<br>Respiratory tract irritation                     |

### Specific target organ toxicity (repeated exposure)

| Name         | Category   | Route of exposure | Target organs     |
|--------------|------------|-------------------|-------------------|
| toluene      | Category 2 | Not determined    | kidneys and liver |
| ethylbenzene | Category 2 | Not determined    | hearing organs    |

## Section 11. Toxicological information

### Aspiration hazard

| Name                                                    | Result                         |
|---------------------------------------------------------|--------------------------------|
| Naphtha (petroleum), full-range alkylate, butane-contg. | ASPIRATION HAZARD - Category 1 |
| toluene                                                 | ASPIRATION HAZARD - Category 1 |
| isopentane                                              | ASPIRATION HAZARD - Category 1 |
| pentane                                                 | ASPIRATION HAZARD - Category 1 |
| ethylbenzene                                            | ASPIRATION HAZARD - Category 1 |
| Naphtha (petroleum), hydrotreated light                 | ASPIRATION HAZARD - Category 1 |
| 1,2,4-trimethylbenzene                                  | ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : Causes skin irritation. Defatting to the skin.
- Ingestion** : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
  - pain or irritation
  - watering
  - redness
- Inhalation** : Adverse symptoms may include the following:
  - respiratory tract irritation
  - coughing
  - nausea or vomiting
  - headache
  - drowsiness/fatigue
  - dizziness/vertigo
  - unconsciousness
  - reduced fetal weight
  - increase in fetal deaths
  - skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
  - irritation
  - redness
  - dryness
  - cracking
  - reduced fetal weight
  - increase in fetal deaths
  - skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
  - nausea or vomiting
  - reduced fetal weight
  - increase in fetal deaths
  - skeletal malformations

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Long term exposure

## Section 11. Toxicological information

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**General** : May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : Suspected of damaging the unborn child.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : Suspected of damaging fertility.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Product/ingredient name                 | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-----------------------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| TruFuel 40 Fuel Bulk                    | 2264.9       | N/A            | 87437.2                  | N/A                        | N/A                                 |
| toluene                                 | 636          | N/A            | N/A                      | 49                         | N/A                                 |
| isopentane                              | N/A          | N/A            | N/A                      | 280                        | N/A                                 |
| pentane                                 | N/A          | N/A            | N/A                      | 364                        | N/A                                 |
| ethylbenzene                            | 3500         | N/A            | 4000                     | N/A                        | N/A                                 |
| Naphtha (petroleum), hydrotreated light | N/A          | 2500           | N/A                      | N/A                        | N/A                                 |
| 1,2,4-trimethylbenzene                  | 5000         | N/A            | N/A                      | 18                         | N/A                                 |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name                 | Result                             | Species                                                             | Exposure |
|-----------------------------------------|------------------------------------|---------------------------------------------------------------------|----------|
| 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  |
|                                         | Acute EC50 2.3 mg/l                | Daphnia - Daphnia magna                                             | 48 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 6.53 mg/l Marine water  | Crustaceans - Artemia sp. - Nauplii                                 | 48 hours |
|                                         | Acute EC50 2.93 mg/l Fresh water   | Daphnia - Daphnia magna - Neonate                                   | 48 hours |
| Naphtha (petroleum), hydrotreated light | Acute LC50 4200 µg/l Fresh water   | Fish - Oncorhynchus mykiss                                          | 96 hours |
|                                         | Acute EC50 1 to 10 mg/l            | Algae                                                               | 72 hours |
|                                         | Acute EC50 1 to 10 mg/l            | Daphnia                                                             | 48 hours |
|                                         | Acute LC50 1 to 10 mg/l            | Fish                                                                | 96 hours |

## Section 12. Ecological information

|                        |                                   |                                             |          |
|------------------------|-----------------------------------|---------------------------------------------|----------|
| 1,2,4-trimethylbenzene | Acute LC50 4910 µg/l Marine water | Crustaceans - Elasmopus pecteniscus - Adult | 48 hours |
|                        | Acute LC50 7720 µg/l Fresh water  | Fish - Pimephales promelas                  | 96 hours |

### Persistence and degradability

| Product/ingredient name | Test                                                         | Result               | Dose | Inoculum |
|-------------------------|--------------------------------------------------------------|----------------------|------|----------|
| isopentane              | 301F Ready Biodegradability - Manometric Respirometry Test   | 71.43 % - 28 days    | -    | -        |
| ethylbenzene            | 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test | 70 to 80 % - 28 days | -    | -        |

| Product/ingredient name                 | Aquatic half-life | Photolysis | Biodegradability |
|-----------------------------------------|-------------------|------------|------------------|
| toluene                                 | -                 | -          | Readily          |
| isopentane                              | -                 | -          | Readily          |
| ethylbenzene                            | -                 | -          | Readily          |
| Naphtha (petroleum), hydrotreated light | -                 | -          | Inherent         |

### Bioaccumulative potential

| Product/ingredient name                                 | LogP <sub>ow</sub> | BCF        | Potential |
|---------------------------------------------------------|--------------------|------------|-----------|
| Naphtha (petroleum), full-range alkylate, butane-contg. | -                  | 10 to 2500 | high      |
| toluene                                                 | 2.73               | 90         | low       |
| isopentane                                              | 3                  | 171        | low       |
| pentane                                                 | 3.45               | 171        | low       |
| ethylbenzene                                            | 3.6                | -          | low       |
| Naphtha (petroleum), hydrotreated light                 | 2.2 to 5.2         | 10 to 2500 | high      |
| 1,2,4-trimethylbenzene                                  | 3.63               | 243        | low       |

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

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

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**RCRA classification** : D001 [Flammable]

## Section 13. Disposal considerations

### United States - RCRA Toxic hazardous waste "U" List

| Ingredient                | CAS #    | Status | Reference number |
|---------------------------|----------|--------|------------------|
| Toluene; Benzene, methyl- | 108-88-3 | Listed | U220             |

## Section 14. Transport information

|                            | DOT Classification                                                                     | TDG Classification                                                                                                                                                                 | IMDG                                                                                                                                                                               | IATA                                                                                     |
|----------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| UN number                  | UN1203                                                                                 | UN1203                                                                                                                                                                             | UN1203                                                                                                                                                                             | UN1203                                                                                   |
| UN proper shipping name    | Gasoline RQ (toluene, ethylbenzene)                                                    |  GASOLINE. Marine pollutant (Naphtha (petroleum), full-range alkylate, butane-contg., isopentane) |  GASOLINE. Marine pollutant (Naphtha (petroleum), full-range alkylate, butane-contg., isopentane) | Gasoline                                                                                 |
| Transport hazard class(es) | 3<br> | 3<br>            | 3<br>         | 3<br> |
| Packing group              | II                                                                                     | II                                                                                                                                                                                 | II                                                                                                                                                                                 | II                                                                                       |
| Environmental hazards      | No.                                                                                    | Yes.                                                                                                                                                                               | Yes.                                                                                                                                                                               | Yes. The environmentally hazardous substance mark is not required.                       |

### Additional information

#### DOT Classification

- Reportable quantity** 3663.8 lbs / 1663.4 kg [600.3 gal / 2272.4 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
- Limited quantity** Yes.
- Packaging instruction** Exceptions: 150. Non-bulk: 202. Bulk: 242.
- Quantity limitation** Passenger aircraft/rail: 5 L. Cargo aircraft: 60 L.
- Special provisions** 144, 177, B1, B33, IB2, T4
- Remarks** May be classed as a Consumer Commodity, ORM-D for Small Packages, see 49CFR 173.150

#### TDG Classification

- Product classified as per the following sections of the Transportation of Dangerous Goods Regulations:** 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark). The marine pollutant mark is not required when transported by road or rail.
- Explosive Limit and Limited Quantity Index** 30
- Passenger Carrying Vessel Index** 100
- Passenger Carrying Road or Rail Index** 5
- Special provisions** 17, 88, 98, 150

#### IMDG

- The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.**
- Emergency schedules** F-E, S-E
- Special provisions** 243

#### IATA

- The environmentally hazardous substance mark may appear if required by other transportation regulations.**
- Quantity limitation** Passenger and Cargo Aircraft: 5 L. Packaging instructions: 353. Cargo Aircraft Only: 60 L. Packaging instructions: 364. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y341.
- Special provisions** A100

- Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 14. Transport information

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 8(a) PAIR: pentane; naphthalene; acetaldehyde  
 TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
 Clean Water Act (CWA) 307: toluene; ethylbenzene; naphthalene  
 Clean Water Act (CWA) 311: toluene; ethylbenzene; naphthalene; xylene  
 Clean Air Act (CAA) 112 regulated flammable substances: isopentane; pentane

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Listed

### SARA 302/304

#### Composition/information on ingredients

| Name            | %    | EHS  | SARA 302 TPQ |           | SARA 304 RQ |           |
|-----------------|------|------|--------------|-----------|-------------|-----------|
|                 |      |      | (lbs)        | (gallons) | (lbs)       | (gallons) |
| furan           | <0.1 | Yes. | 500          | 64.1      | 100         | 12.8      |
| propylene oxide | <0.1 | Yes. | 10000        | 1444.3    | 100         | 14.4      |

**SARA 304 RQ** : 449438202.2 lbs / 204044943.8 kg [73637939.2 gal / 278749923.3 L]

### SARA 311/312

**Classification** : FLAMMABLE LIQUIDS - Category 2  
 SKIN IRRITATION - Category 2  
 EYE IRRITATION - Category 2A  
 CARCINOGENICITY - Category 2  
 TOXIC TO REPRODUCTION (Fertility) - Category 2  
 TOXIC TO REPRODUCTION (Unborn child) - Category 2  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs, kidneys, liver) - Category 2  
 ASPIRATION HAZARD - Category 1  
 HNOC - Defatting irritant

#### Composition/information on ingredients

## Section 15. Regulatory information

| Name                                                    | %         | Classification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Naphtha (petroleum), full-range alkylate, butane-contg. | ≥50 - ≤75 | FLAMMABLE LIQUIDS - Category 2<br>SKIN IRRITATION - Category 2<br>TOXIC TO REPRODUCTION (Fertility) - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3                                                                                                                                                                                                                                                                                                |
| toluene                                                 | ≥25 - ≤30 | ASPIRATION HAZARD - Category 1<br>FLAMMABLE LIQUIDS - Category 2<br>ACUTE TOXICITY (oral) - Category 4<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>TOXIC TO REPRODUCTION (Unborn child) - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys, liver) - Category 2 |
| isopentane                                              | ≤10       | ASPIRATION HAZARD - Category 1<br>HNOC - Static-accumulating flammable liquid<br>FLAMMABLE LIQUIDS - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3                                                                                                                                                                                                                                                                                                 |
| pentane                                                 | ≤10       | ASPIRATION HAZARD - Category 1<br>HNOC - Defatting irritant<br>HNOC - Static-accumulating flammable liquid<br>FLAMMABLE LIQUIDS - Category 2<br>SIMPLE ASPHYXIANTS<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3                                                                                                                                                                                                                                              |
| ethylbenzene                                            | ≤2.6      | ASPIRATION HAZARD - Category 1<br>HNOC - Defatting irritant<br>HNOC - Static-accumulating flammable liquid<br>FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (inhalation) - Category 4<br>EYE IRRITATION - Category 2A<br>CARCINOGENICITY - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2                                                                    |
| Naphtha (petroleum), hydrotreated light                 | <1        | ASPIRATION HAZARD - Category 1<br>HNOC - Static-accumulating flammable liquid<br>FLAMMABLE LIQUIDS - Category 3<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2B<br>TOXIC TO REPRODUCTION (Fertility) - Category 2<br>TOXIC TO REPRODUCTION (Unborn child) - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3                                                                                                                          |
| 1,2,4-trimethylbenzene                                  | ≤0.1      | ASPIRATION HAZARD - Category 1<br>FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (inhalation) - Category 4<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3<br>ASPIRATION HAZARD - Category 1                                                                                                  |

SARA 313

## Section 15. Regulatory information

|                                 | Product name          | CAS number | %         |
|---------------------------------|-----------------------|------------|-----------|
| Form R - Reporting requirements | Toluene               | 108-88-3   | ≥25 - ≤30 |
|                                 | ethylbenzene          | 100-41-4   | ≤2.6      |
|                                 | dibenz[a,h]anthracene | 53-70-3    | <0.0025   |
| Supplier notification           | toluene               | 108-88-3   | ≥25 - ≤30 |
|                                 | ethylbenzene          | 100-41-4   | ≤2.6      |

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: TOLUENE; METHYLBENZENE; ETHYL BENZENE; ETHYLBENZENE; ISOPENTANE; PENTANE
- New York** : The following components are listed: Toluene; Ethylbenzene
- New Jersey** : The following components are listed: TOLUENE; BENZENE, METHYL-; ETHYL BENZENE; BENZENE, ETHYL-; ISOPENTANE; BUTANE, 2-METHYL-; PENTANE
- Pennsylvania** : The following components are listed: BENZENE, METHYL-; BENZENE, ETHYL-; BUTANE, 2-METHYL-; PENTANE

### California Prop. 65

 **WARNING:** This product can expose you to chemicals including Ethylbenzene, which is 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).

Information provided is based on industrial use and may not be relevant to consumer applications.

| Ingredient name | Concentration (%)     | No significant risk level | Maximum acceptable dosage level |
|-----------------|-----------------------|---------------------------|---------------------------------|
| Toluene         | 15.597 - 27.294       | -                         | Yes.                            |
| Ethylbenzene    | 0.07803 - 2.3396      | Yes.                      | -                               |
| Naphthalene     | <0.0020966            | Yes.                      | -                               |
| Cumene          | 0.0002225 - 0.0010903 | -                         | -                               |

### International lists

#### National inventory

- Australia** : At least one component is not listed.
- Canada** : All components are listed or exempted.
- China** : At least one component is not listed.
- Europe** : All components are listed or exempted.
- Japan** : **Japan inventory (ENCS):** At least one component is not listed.  
**Japan inventory (ISHL):** Not determined.
- New Zealand** : At least one component is not listed.
- Philippines** : Not determined.
- Republic of Korea** : Not determined.
- Taiwan** : All components are listed or exempted.
- Thailand** : Not determined.
- Turkey** : Not determined.
- United States** : All components are listed or exempted.
- Viet Nam** : Not determined.

## Section 16. Other information

### Procedure used to derive the classification

| Classification                                   | Justification         |
|--------------------------------------------------|-----------------------|
| Flam. Liq. 2, H225                               | On basis of test data |
| Skin Irrit. 2, H315                              | Calculation method    |
| Eye Irrit. 2A, H319                              | Calculation method    |
| Carc. 2, H351                                    | Calculation method    |
| Repr. 2, H361 (Fertility)                        | Calculation method    |
| Repr. 2, H361 (Unborn child)                     | Calculation method    |
| STOT SE 3, H335                                  | Calculation method    |
| STOT SE 3, H336                                  | Calculation method    |
| STOT RE 2, H373 (hearing organs, kidneys, liver) | Calculation method    |
| Asp. Tox. 1, H304                                | Calculation method    |
| Aquatic Acute 3, H402                            | Calculation method    |
| Aquatic Chronic 2, H411                          | Calculation method    |

### History

**Date of issue/Date of revision** : 05/12/2020

**Version** : 2.01

**Key to abbreviations** :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available
- SGG = Segregation Group
- UN = United Nations

Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.