

# SAFETY DATA SHEET

TruFuel 50 Fuel



## Section 1. Identification

**GHS product identifier** : TruFuel 50 Fuel  
**Product code** : 301027210001  
**Other means of identification** : Not available.  
**Product type** : Liquid.

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

#### Identified uses

Fuel.

#### Uses advised against

Not applicable.

**Supplier's details** : Calumet Branded Products, LLC  
1060 N Capitol Ave Suite 6-401  
Indianapolis, IN 46204  
USA  
Technical Services:317-328-5660

**Emergency telephone number (with hours of operation)** : 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  
TOXIC TO REPRODUCTION - 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) - Category 2  
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** : Highly flammable liquid and vapor.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
Suspected of damaging fertility or the unborn child.

## Section 2. Hazards identification

May cause damage to organs through prolonged or repeated exposure. (kidneys, liver)  
Toxic to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Wash thoroughly after handling.

#### Response

: Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation occurs: Get medical advice or 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 advice or attention.

#### Storage

: Store locked up. Store in a well-ventilated place. Keep container tightly closed.

#### Disposal

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

### Supplemental label elements

: Avoid contact with skin and clothing. Wash thoroughly after handling.

### Hazards not otherwise classified

: Prolonged or repeated contact may dry skin and cause irritation.

### Hazards identified when used

: No known significant effects or critical hazards.

## Section 3. Composition/information on ingredients

### Substance/mixture

: Mixture

### Other means of identification

: Not available.

| Ingredient name                                         | Synonyms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | %         | Identifiers     |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------|
| Naphtha (petroleum), full-range alkylate, butane-contg. | Low boiling point modified naphtha; Naphtha, petroleum, full range alkylate, butane containing; Full range alkylate naphtha, with butanes, petroleum; naphtha (petroleum), full-range alkylate, butane-contg., for undergoing chemical transformation by a process other than those specified in respect of subheading 2710 12 11; naphtha (petroleum), full-range alkylate, butane-contg., for undergoing a specific process; low boiling point modified naphtha, for undergoing chemical transformation by a process other than those specified in respect of subheading 2710 12 11; low boiling point modified naphtha, for undergoing a specific process; Naphtha (petroleum), full-range alkylate, butane-contg., Low boiling point modified naphtha | ≥65 - ≤85 | CAS: 68527-27-5 |
| xylene                                                  | Benzene, dimethyl-; Xylol; Benzene, dimethyl-, mixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≥10 - ≤30 | CAS: 1330-20-7  |

## Section 3. Composition/information on ingredients

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |               |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------|
|                        | isomers; xylene, mixed isomers, pure; xylene, crude; photosensitive emulsion consisting of cyclized polyisoprene containing: — 55 % or more but not more than 75 % by weight of xylene (CAS RN 1330-20-7) and — 12 % or more but not more than 18 % by weight of ethylbenzene (CAS RN 100-41-4); Benzene, dimethyl-,; Xylene (mixed); xylene (total); Xylenes; Dimethylbenzene                                                                                                                                                                                   |           |               |
| isopentane             | 2-methylbutane; Butane, 2-methyl-;<br><small>difluoromethane—1,1,1,2,2-pentafluoroethane—1,1,1,2,2-tetrafluoroethane—1,1,1,2,3,3,3-heptafluoropropane—n-butane—2-methylbutane; 1,1,1,2,2-pentafluoroethane—1,1,1,2-tetrafluoroethane—n-butane—2-methylbutane; R601a; R453; R32—R125—R134a—R227ea—R600—R601a; R426; R125—R134a—R600—R601a; Iso-Pentane; Isoamyl hydride; Ethyl dimethyl methane; Isopentan (2-methylbutane)</small>                                                                                                                               | ≥10 - ≤30 | CAS: 78-78-4  |
| pentane                | n-PENTANE; Normal-Pentane; R601; AMYL HYDRIDE; 2-methylbutane; isopentane; Normal pentane; n-pentana                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ≥10 - ≤30 | CAS: 109-66-0 |
| toluene                | Benzene, methyl-; Methylbenzene; Toluol; Phenyl methane; Methyl benzol; toluene, pure; toluene, crude                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ≥10 - ≤30 | CAS: 108-88-3 |
| 1,2,4-trimethylbenzene | Benzene, 1,2,4-trimethyl-; . pseudo.-Cumene; Pseudocumene; psi-Cumene; Asymmetrical trimethylbenzene; hemimellitene; solution of more than 61 % but not more than 63 % by weight of methylcyclopentadienyl manganese tricarbonyl (CAS RN 12108-13-3) in an aromatic hydrocarbon solvent, containing by weight not more than: — 4,9 % of 1,2,4-trimethylbenzene (CAS RN 95-63-6), — 4,9 % of naphthalene (91-20-3), and — 0,5 % of 1,3,5-trimethylbenzene (108-67-8); Trimethylbenzene; unsym-Trimethylbenzene; Trialkyl (C1-4)benzene; Tri-or tetramethylbenzene | ≤0.1      | CAS: 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 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. 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. Absorb with an inert 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. 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.

## 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                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p> Naphtha (petroleum), full-range alkylate, butane-contg. xylene</p> | <p><b>ACGIH TLV (United States)</b><br/>TWA 8 hours: 200 ppm.</p> <p><b>CAL OSHA PEL (United States, 1/2025) [xylene]</b><br/>STEL 15 minutes: 655 mg/m<sup>3</sup>.<br/>STEL 15 minutes: 150 ppm.<br/>C: 300 ppm.<br/>TWA 8 hours: 435 mg/m<sup>3</sup>.<br/>TWA 8 hours: 100 ppm.</p> <p><b>OSHA PEL (United States, 5/2018) [Xylenes]</b><br/>TWA 8 hours: 100 ppm.</p> |

## Section 8. Exposure controls/personal protection

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | <p>TWA 8 hours: 435 mg/m<sup>3</sup>.<br/> <b>OSHA PEL 1989 (United States, 3/1989)</b><br/> <b>[Xylenes (o-, m-, p-isomers)]</b><br/> TWA 8 hours: 100 ppm.<br/> TWA 8 hours: 435 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 150 ppm.<br/> STEL 15 minutes: 655 mg/m<sup>3</sup>.<br/> <b>ACGIH TLV (United States, 1/2025) [p-xylene and mixtures containing p-xylene]</b><br/> A4. Ototoxicant.<br/> TWA 8 hours: 20 ppm.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| isopentane             | <p><b>ACGIH TLV (United States, 1/2025)</b><br/> <b>[Pentane]</b><br/> TWA 8 hours: 1000 ppm.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| pentane                | <p><b>NIOSH REL (United States, 10/2020)</b><br/> TWA 10 hours: 120 ppm.<br/> TWA 10 hours: 350 mg/m<sup>3</sup>.<br/> CEIL 15 minutes: 610 ppm.<br/> CEIL 15 minutes: 1800 mg/m<sup>3</sup>.<br/> <b>CAL OSHA PEL (United States, 1/2025)</b><br/> TWA 8 hours: 1800 mg/m<sup>3</sup>.<br/> TWA 8 hours: 600 ppm.<br/> <b>OSHA PEL (United States, 5/2018)</b><br/> TWA 8 hours: 1000 ppm.<br/> TWA 8 hours: 2950 mg/m<sup>3</sup>.<br/> <b>OSHA PEL 1989 (United States, 3/1989)</b><br/> TWA 8 hours: 600 ppm.<br/> TWA 8 hours: 1800 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 750 ppm.<br/> STEL 15 minutes: 2250 mg/m<sup>3</sup>.<br/> <b>ACGIH TLV (United States, 1/2025)</b><br/> <b>[Pentane]</b><br/> TWA 8 hours: 1000 ppm.</p>                                                                                                                            |
| toluene                | <p><b>NIOSH REL (United States, 10/2020)</b><br/> TWA 10 hours: 100 ppm.<br/> TWA 10 hours: 375 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 150 ppm.<br/> STEL 15 minutes: 560 mg/m<sup>3</sup>.<br/> <b>OSHA PEL Z2 (United States, 2/2013)</b><br/> TWA 8 hours: 200 ppm.<br/> CEIL: 300 ppm.<br/> AMP 10 minutes: 500 ppm.<br/> <b>CAL OSHA PEL (United States, 1/2025)</b><br/> Absorbed through skin.<br/> STEL 15 minutes: 560 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 150 ppm.<br/> C: 500 ppm.<br/> TWA 8 hours: 37 mg/m<sup>3</sup>.<br/> TWA 8 hours: 10 ppm.<br/> <b>OSHA PEL 1989 (United States, 3/1989)</b><br/> TWA 8 hours: 100 ppm.<br/> TWA 8 hours: 375 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 150 ppm.<br/> STEL 15 minutes: 560 mg/m<sup>3</sup>.<br/> <b>ACGIH TLV (United States, 1/2025) A4.</b><br/> Ototoxicant.<br/> TWA 8 hours: 20 ppm.</p> |
| 1,2,4-trimethylbenzene | <p><b>NIOSH REL (United States, 10/2020)</b><br/> TWA 10 hours: 25 ppm.<br/> TWA 10 hours: 125 mg/m<sup>3</sup>.<br/> <b>CAL OSHA PEL (United States, 1/2025)</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Section 8. Exposure controls/personal protection

|  |                                                                                                                                                                                                                                                                                                                                         |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b>[trimethylbenzene, all isomers]</b><br/>TWA 8 hours: 125 mg/m<sup>3</sup>.<br/>TWA 8 hours: 25 ppm.<br/><b>OSHA PEL 1989 (United States, 3/1989)</b><br/><b>[Trimethyl benzene]</b><br/>TWA 8 hours: 25 ppm.<br/>TWA 8 hours: 125 mg/m<sup>3</sup>.<br/><b>ACGIH TLV (United States, 1/2025) A4.</b><br/>TWA 8 hours: 10 ppm.</p> |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Biological exposure indices

| Ingredient name | Exposure indices                                                                                                                                                                                                                                                                             |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| xylene          | <p><b>ACGIH BEI (United States, 1/2025) [xylenes (technical or commercial grades)]</b><br/>BEI: 0.3 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.</p>                                                                                                        |
| toluene         | <p><b>ACGIH BEI (United States, 1/2025)</b><br/>BEI: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift.<br/>BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift.<br/>BEI: 0.02 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.</p> |

### Appropriate engineering controls

- : 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.

### Environmental exposure controls

- : 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.

### Individual protection measures

#### Hygiene measures

- : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. 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.

#### Eye/face protection

- : 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.

#### Skin protection

##### Hand protection

- : 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.

##### Body protection

- : 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.

## Section 8. Exposure controls/personal protection

- Other skin protection** : 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.
- Respiratory protection** : 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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

- Physical state** : Liquid.
- Color** : Clear. Red.
- Odor** : Characteristic. Hydrocarbon.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Boiling point or initial boiling point and boiling range** : >54.444°C (>130°F)
- Flash point** : Closed cup: -40°C (-40°F)
- Evaporation rate** : Not available.
- Flammability** : Not available.
- Lower and upper explosion limit/flammability limit** : Not available.
- Vapor pressure** :

| Ingredient name | Vapor Pressure at 20 °C |     |        | Vapor pressure at 50 °C |     |        |
|-----------------|-------------------------|-----|--------|-------------------------|-----|--------|
|                 | mm Hg                   | kPa | Method | mm Hg                   | kPa | Method |
| Isopentane      | 592.54814               | 79  |        |                         |     |        |

- Relative vapor density** : Not available.
- Relative density** : 0.732
- Solubility(ies)** :

| Media      | Result            |
|------------|-------------------|
| cold water | Partially soluble |
| hot water  | Partially soluble |

- Solubility in water** : Not available.
- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** :

| Ingredient name                                                            | °C  | °F  | Method  |
|----------------------------------------------------------------------------|-----|-----|---------|
| Butene, homopolymer (products derived from either/ or But-1-ene/But-2-ene) | 215 | 419 | EU A.15 |

- Decomposition temperature** : Not available.
- Viscosity** : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C (104°F)): <20.5 mm²/s (<20.5 cSt)

### Particle characteristics

- Median particle size** : Not applicable.

## 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

Naphtha (petroleum), full-range alkylate, butane-contg.

##### Result

**Rat - Oral - LD50**

>5000 mg/kg

**Rabbit - Dermal - LD50**

>2000 mg/kg

**Rat - Inhalation - LC50 Vapor**

5610 mg/m<sup>3</sup> [4 hours]

**Rat - Oral - LD50**

4300 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other changes

**Rat - Inhalation - LC50 Vapor**

5000 ppm [4 hours]

**Rat - Inhalation - LC50 Gas.**

6670 ppm [4 hours]

**Rat - Oral - LD50**

>2000 mg/kg

**Rat - Inhalation - LC50 Vapor**

280000 mg/m<sup>3</sup> [4 hours]

**Rat - Oral - LD50**

>2000 mg/kg

**Rat - Inhalation - LC50 Vapor**

364 g/m<sup>3</sup> [4 hours]

**Rat - Oral - LD50**

636 mg/kg

**Rabbit - Dermal - LD50**

5000 mg/kg

**Rat - Inhalation - LC50 Vapor**

49 g/m<sup>3</sup> [4 hours]

**Rat - Oral - LD50**

5 g/kg

**Rabbit - Dermal - LD50**

>3440 mg/kg

**Rat - Inhalation - LC50 Vapor**

18000 mg/m<sup>3</sup> [4 hours]

xylene

isopentane

pentane

toluene

1,2,4-trimethylbenzene

**Conclusion/Summary [Product]** : Not available.

## Section 11. Toxicological information

### Skin corrosion/irritation

#### Product/ingredient name

xylene

#### Result

##### **Rat - Skin - Mild irritant**

Duration of treatment/exposure: 8 hours

Amount/concentration applied: 60 uL

##### **Rabbit - Skin - Moderate irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

##### **Rabbit - Skin - Moderate irritant**

Amount/concentration applied: 100 %

##### **Pig - Skin - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 250 uL

##### **Rabbit - Skin - Mild irritant**

Amount/concentration applied: 435 mg

##### **Rabbit - Skin - Moderate irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 20 mg

##### **Rabbit - Skin - Moderate irritant**

Amount/concentration applied: 500 mg

toluene

**Conclusion/Summary [Product]** : Not available.

### Serious eye damage/eye irritation

#### Product/ingredient name

xylene

#### Result

##### **Rabbit - Eyes - Mild irritant**

Amount/concentration applied: 87 mg

##### **Rabbit - Eyes - Severe irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 5 mg

##### **Rabbit - Eyes - Mild irritant**

Duration of treatment/exposure: 0.5 minutes

Amount/concentration applied: 100 mg

##### **Rabbit - Eyes - Mild irritant**

Amount/concentration applied: 870 ug

##### **Rabbit - Eyes - Severe irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 2 mg

##### **Rabbit - Eyes - Severe irritant**

Amount/concentration applied: 0.1 MI

toluene

**Conclusion/Summary [Product]** : Not available.

### Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : Not available.

### Respiratory or skin sensitization

Not available.

### **Skin**

**Conclusion/Summary [Product]** : Not available.

### **Respiratory**

## Section 11. Toxicological information

**Conclusion/Summary [Product]** : Not available.

### Germ cell mutagenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### Carcinogenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### Classification

| Product/ingredient name | OSHA | IARC | NTP |
|-------------------------|------|------|-----|
| xylene                  | -    | 3    | -   |
| toluene                 | -    | 3    | -   |

### Reproductive toxicity

Not available.

**Conclusion/Summary [Product]** : Not available.

#### **Ingredient name**

toluene

#### **Conclusion/Summary**

Reproductive toxicant - female. Suspected of damaging the unborn child if inhaled.

### Specific target organ toxicity (single exposure)

#### **Product/ingredient name**

Naphtha (petroleum), full-range alkylate,  
butane-contg.

xylene

isopentane

pentane

toluene

1,2,4-trimethylbenzene

#### **Result**

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)  
(Narcotic effects) - Category 3

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 (SINGLE EXPOSURE)  
(Narcotic effects) - Category 3

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 (SINGLE EXPOSURE)  
(Respiratory tract irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)  
(Narcotic effects) - Category 3

### Specific target organ toxicity (repeated exposure)

#### **Product/ingredient name**

xylene

toluene

#### **Result**

SPECIFIC TARGET ORGAN TOXICITY (REPEATED  
EXPOSURE) - Category 2

SPECIFIC TARGET ORGAN TOXICITY (REPEATED  
EXPOSURE) (kidneys, liver) - Category 2

### Aspiration hazard

#### **Product/ingredient name**

#### **Result**

## Section 11. Toxicological information

|                                                            |                                |
|------------------------------------------------------------|--------------------------------|
| Naphtha (petroleum), full-range alkylate,<br>butane-contg. | ASPIRATION HAZARD - Category 1 |
| xylene                                                     | ASPIRATION HAZARD - Category 1 |
| isopentane                                                 | ASPIRATION HAZARD - Category 1 |
| pentane                                                    | ASPIRATION HAZARD - Category 1 |
| toluene                                                    | 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

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

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

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

**Potential immediate effects** : Not available.

## Section 11. Toxicological information

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary [Product]** : 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** : No known significant effects or critical hazards.

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

**Reproductive toxicity** : Suspected of damaging fertility or the unborn child.

### 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 50 Bulk                                         | 2795.1       | 3047.5         | 48561.9                  | N/A                        | N/A                                 |
| Naphtha (petroleum), full-range alkylate, butane-contg. | N/A          | 2500           | N/A                      | N/A                        | N/A                                 |
| xylene                                                  | 4300         | 1100           | 6670                     | N/A                        | N/A                                 |
| isopentane                                              | 2500         | N/A            | N/A                      | 280                        | N/A                                 |
| pentane                                                 | 2500         | N/A            | N/A                      | 364                        | N/A                                 |
| toluene                                                 | 636          | 5000           | N/A                      | 49                         | N/A                                 |
| 1,2,4-trimethylbenzene                                  | 5000         | 2500           | N/A                      | 18                         | N/A                                 |

## Section 12. Ecological information

### Toxicity

#### Product/ingredient name

xylene

#### Result

##### **Acute - LC50 - Marine water**

Crustaceans - Daggerblade grass shrimp - *Palaemon pugio*  
8500 µg/l [48 hours]

Effect: Mortality

##### **Acute - LC50 - Fresh water**

Fish - Fathead minnow - *Pimephales promelas*

Age: 31 days; Size: 18.4 mm; Weight: 0.077 g

13.4 mg/l [96 hours]

Effect: Mortality

isopentane

##### **Acute - EC50**

Daphnia - *Daphnia magna*

2.3 mg/l [48 hours]

toluene

##### **Acute - LC50 - Fresh water**

Fish - Coho salmon, silver salmon - *Oncorhynchus kisutch* - Fry

Weight: 1 g

5500 µg/l [96 hours]

Effect: Mortality

##### **Acute - EC50 - Fresh water**

Daphnia - Water flea - *Daphnia magna* - Juvenile (Fledgling, Hatchling, Weanling)

6000 µg/l [48 hours]

Effect: Intoxication

##### **Acute - EC50 - Fresh water**

## Section 12. Ecological information

Algae - Green algae - *Raphidocelis subcapitata*  
12.5 mg/l [72 hours]

Effect: Growth

**Chronic - NOEC - Fresh water**

Daphnia - Water flea - *Daphnia magna*

Age: ≤24 hours

1 mg/l [21 days]

Effect: Mortality

**Acute - LC50 - Marine water**

Crustaceans - Scud - *Elasmopus pecteniscus* - Adult

4910 µg/l [48 hours]

Effect: Mortality

**Acute - LC50 - Fresh water**

Fish - Fathead minnow - *Pimephales promelas*

Age: 34 days

7720 µg/l [96 hours]

Effect: Mortality

1,2,4-trimethylbenzene

**Conclusion/Summary [Product]** : Not available.

### Persistence and degradability

**Product/ingredient name**

**Result**

isopentane

Ready Biodegradability - Manometric Respirometry Test  
71.43% [28 days]

**Conclusion/Summary [Product]** : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| xylene                  | -                 | -          | Readily          |
| isopentane              | -                 | -          | Readily          |
| toluene                 | -                 | -          | Readily          |

### Bioaccumulative potential

| Product/ingredient name                                 | LogP <sub>ow</sub> | BCF         | Potential |
|---------------------------------------------------------|--------------------|-------------|-----------|
| Naphtha (petroleum), full-range alkylate, butane-contg. | -                  | 10 to 2500  | High      |
| xylene                                                  | 3.12               | 8.1 to 25.9 | Low       |
| isopentane                                              | 3                  | 171         | Low       |
| pentane                                                 | 3.45               | 171         | Low       |
| toluene                                                 | 2.73               | 90          | Low       |
| 1,2,4-trimethylbenzene                                  | 3.63               | 243         | Low       |

### Mobility in soil

**Soil/Water partition coefficient** : 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 Toxic hazardous waste "U" List

| Ingredient        | CAS #                 | Status           | Reference number |
|-------------------|-----------------------|------------------|------------------|
| Xylene<br>Toluene | 1330-20-7<br>108-88-3 | Listed<br>Listed | U239<br>U220     |

## Section 14. Transport information

|                            | DOT<br>Classification                                                                                                                                                        | TDG<br>Classification                                                                                                                                                        | Mexico<br>Classification                                                                 | IMDG                                                                                                                                                                             | IATA                                                                                       |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| UN number                  | UN1203                                                                                                                                                                       | UN1203                                                                                                                                                                       | UN1203                                                                                   | UN1203                                                                                                                                                                           | UN1203                                                                                     |
| UN proper shipping name    | Gasoline                                                                                                                                                                     | GASOLINE                                                                                                                                                                     | GASOLINA                                                                                 | GASOLINE                                                                                                                                                                         | Gasoline                                                                                   |
| Transport hazard class(es) | 3<br>  | 3<br>  | 3<br> | 3<br>  | 3<br> |
| Packing group              | II                                                                                                                                                                           | II                                                                                                                                                                           | II                                                                                       | II                                                                                                                                                                               | II                                                                                         |
| Environmental hazards      | Yes.                                                                                                                                                                         | Yes.                                                                                                                                                                         | Yes. The environmentally hazardous substance mark is not required.                       | Yes.                                                                                                                                                                             | Yes. The environmentally hazardous substance mark is not required.                         |

### Additional information

#### DOT Classification

: This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.  
**Reportable quantity** 408.08 lbs / 185.27 kg [66.861 gal / 253.1 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

## Section 14. Transport information

- 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
- Mexico Classification** : **Special provisions** 243
- 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.
- Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

- U.S. Federal regulations** : **TSCA 4(a) proposed test rules:** (tetrapropenyl)succinic acid  
**TSCA 4(a) final test rules:** 2-Butenedioic acid (E)-, di-C8-18-alkyl esters  
**TSCA 8(a) PAIR:** pentane; 2-Butenedioic acid (E)-, di-C8-18-alkyl esters  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**TSCA 8(d) H and S data reporting:** ethylbenzene  
**Clean Water Act (CWA) 307:** toluene  
**Clean Water Act (CWA) 311:** xylene; toluene  
**Clean Air Act (CAA) 112 regulated flammable substances:** isopentane; pentane

### TSCA 12(b) - Chemical export notification

Not applicable.

- 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)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

## Section 15. Regulatory information

| Name          | %    | EHS  | SARA 302 TPQ |           | SARA 304 RQ |           |
|---------------|------|------|--------------|-----------|-------------|-----------|
|               |      |      | (lbs)        | (gallons) | (lbs)       | (gallons) |
| Vinyl acetate | ≤0.1 | Yes. | 1000         | 129       | 5000        | 644.8     |

**SARA 304 RQ** : 185988656179.9 lbs / 84438849905.7 kg [30473202524.7 gal / 115353620089.7 L]

### SARA 311/312

#### **Classification**

: FLAMMABLE LIQUIDS - Category 2  
 SKIN IRRITATION - Category 2  
 EYE IRRITATION - Category 2A  
 TOXIC TO REPRODUCTION - 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) - Category 2  
 ASPIRATION HAZARD - Category 1  
 HNOC - Defatting irritant

### Composition/information on ingredients

| Name                                                    | %         | Classification                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Naphtha (petroleum), full-range alkylate, butane-contg. | ≥65 - ≤85 | FLAMMABLE LIQUIDS - Category 1<br>SKIN IRRITATION - Category 2<br>TOXIC TO REPRODUCTION - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3<br>ASPIRATION HAZARD - Category 1                                                                                                                                                                                                                                     |
| xylene                                                  | ≥10 - ≤30 | FLAMMABLE LIQUIDS - Category 2<br>ACUTE TOXICITY (dermal) - Category 4<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 (REPEATED EXPOSURE) - Category 2<br>ASPIRATION HAZARD - Category 1                                                                        |
| isopentane                                              | ≥10 - ≤30 | HNOC - Static-accumulating flammable liquid<br>FLAMMABLE LIQUIDS - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3<br>ASPIRATION HAZARD - Category 1<br>HNOC - Static-accumulating flammable liquid                                                                                                                                                                                                             |
| pentane                                                 | ≥10 - ≤30 | HNOC - Defatting irritant<br>FLAMMABLE LIQUIDS - Category 2<br>SIMPLE ASPHYXIANTS<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3<br>ASPIRATION HAZARD - Category 1<br>HNOC - Static-accumulating flammable liquid                                                                                                                                                                                                         |
| toluene                                                 | ≥10 - ≤30 | HNOC - Defatting irritant<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 - 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) - Category 2 |

## Section 15. Regulatory information

|                        |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1,2,4-trimethylbenzene | ≤0.1 | ASPIRATION HAZARD - Category 1<br>HNOC - Static-accumulating flammable liquid<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)<br>(Respiratory tract irritation) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)<br>(Narcotic effects) - Category 3<br>ASPIRATION HAZARD - Category 1 |
|------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### SARA 313

|                                 | Product name      | CAS number            | %                      |
|---------------------------------|-------------------|-----------------------|------------------------|
| Form R - Reporting requirements | Xylene<br>toluene | 1330-20-7<br>108-88-3 | ≥10 - ≤30<br>≥10 - ≤30 |
| Supplier notification           | Xylene<br>toluene | 1330-20-7<br>108-88-3 | ≥10 - ≤30<br>≥10 - ≤30 |

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: XYLENE; ISOPENTANE; PENTANE; TOLUENE
- New York** : The following components are listed: Xylene mixed; Toluene
- New Jersey** : The following components are listed: XYLENES; ISOPENTANE; PENTANE; TOLUENE
- Pennsylvania** : The following components are listed: BENZENE, DIMETHYL-; BUTANE, 2-METHYL-; PENTANE; BENZENE, METHYL-

### California Prop. 65

 **WARNING:** This product can expose you to chemicals including cumene, 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).

| Ingredient name   | No significant risk level | Maximum acceptable dosage level |
|-------------------|---------------------------|---------------------------------|
| Toluene<br>cumene | -<br>-                    | Yes.<br>-                       |

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

- Australia** : All components are listed or exempted.
- Canada** : All components are listed or exempted.
- China** : Not determined.

## Section 15. Regulatory information

|                                |                                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eurasian Economic Union</b> | :  <b>Russian Federation inventory</b> : Not determined. |
| <b>Japan</b>                   | : <b>Japan inventory (CSCL)</b> : Not determined.<br><b>Japan inventory (ISHL)</b> : Not determined.                                      |
| <b>New Zealand</b>             | : Not determined.                                                                                                                         |
| <b>Philippines</b>             | : Not determined.                                                                                                                         |
| <b>Republic of Korea</b>       | : All components are listed or exempted.                                                                                                  |
| <b>Taiwan</b>                  | :  Not determined.                                       |
| <b>Thailand</b>                | : Not determined.                                                                                                                         |
| <b>Turkey</b>                  | : Not determined.                                                                                                                         |
| <b>United States</b>           | : All components are active or exempted.                                                                                                  |
| <b>Viet Nam</b>                | :  Not determined.                                       |

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

|                  |   |   |
|------------------|---|---|
| Health           | * | 3 |
| Flammability     |   | 3 |
| Physical hazards |   | 0 |
|                  |   |   |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)



### Procedure used to derive the classification

| Classification                                                                               | Justification         |
|----------------------------------------------------------------------------------------------|-----------------------|
| FLAMMABLE LIQUIDS - Category 2                                                               | On basis of test data |
| SKIN IRRITATION - Category 2                                                                 | Calculation method    |
| EYE IRRITATION - Category 2A                                                                 | Calculation method    |
| TOXIC TO REPRODUCTION - Category 2                                                           | Calculation method    |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 | Calculation method    |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3             | Calculation method    |
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2                              | Calculation method    |
| ASPIRATION HAZARD - Category 1                                                               | Calculation method    |
| AQUATIC HAZARD (ACUTE) - Category 2                                                          | Calculation method    |
| AQUATIC HAZARD (LONG-TERM) - Category 2                                                      | Calculation method    |

### History

|                                       |             |
|---------------------------------------|-------------|
| <b>Date of printing</b>               | : 1/9/2026  |
| <b>Date of issue/Date of revision</b> | : 1/9/2026  |
| <b>Date of previous issue</b>         | : 4/29/2025 |
| <b>Version</b>                        | : 8         |

## Section 16. Other information

### Key to abbreviations

: ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
DOT = Department of Transportation  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
IMO = International Maritime Organization  
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  
TDG = Transportation of Dangerous Goods  
UN = United Nations

### References

: Not available.

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.