

| GHS product identifier | : CITGO No. 2 Diesel Fuel, All Grades, Low Sulfur  |
|------------------------|--|
| Chemical name          | : Fuels, diesel, No 2  |
| Synonyms               | <ul> <li>No. 2-D Grade Diesel Fuel Oil (defined by ASTM D-975); Treated or Refined Diesel<br/>Fuel No. 2; Grade 2 Distillate Fuel; Hydrodesulfurized Middle Distillate; C9-C16<br/>Petroleum Hydrocarbons</li> </ul> |
| Material uses          | : Fuel.  |
| Code                   | : Various  |
|                        |  |

GC

1/17

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

Not applicable.

| Supplier's details   | CITGO Petroleum Corporation<br>P.O. Box 4689<br>Houston, TX 77210<br>sdsvend@citgo.com  |
|--|---|
| Emergency telephone<br>number (with hours of<br>operation) | <ul> <li>Technical Contact: (832) 486-4000 (M-F, 8 AM to 4 PM CT)</li> <li>Medical Emergency: (832) 486-4700 (24 Hr)</li> <li>CHEMTREC Emergency: (800) 424-9300 (24 Hr)</li> <li>(United States Only)</li> </ul> |

# 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 | <ul> <li>FLAMMABLE LIQUIDS - Category 3<br/>ACUTE TOXICITY (inhalation) - Category 4<br/>SKIN IRRITATION - Category 2<br/>EYE IRRITATION - Category 2B<br/>CARCINOGENICITY - Category 2<br/>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous<br/>system (CNS)) - Category 2<br/>ASPIRATION HAZARD - Category 1<br/>AQUATIC HAZARD (LONG-TERM) - Category 2</li> </ul> |

| GHS label elements<br>Hazard pictograms |   |   |
|---|---|---|
| Signal word                             | : Danger  |   |
| Hazard statements                       | <ul> <li>Flammable liquid and vapor.<br/>Harmful if inhaled.</li> <li>Causes skin and eye irritation.</li> <li>Suspected of causing cancer.</li> <li>May be fatal if swallowed and enters airways.</li> <li>May cause damage to organs through prolonged or repeated exposure. (centra nervous system (CNS))</li> <li>Toxic to aquatic life with long lasting effects.</li> </ul> | I |
| Precautionary statements                |   |   |
| General                                 | : Diesel engine exhaust can cause upper respiratory tract irritation and reversible pulmonary effects. Long-term exposure to diesel engine exhaust may cause ca Do not syphon by mouth.   |   |
| Date of issue/Date of revision          | : 8/17/2023 Date of previous issue : 7/31/2018 Version : 6  | 1 |

### Section 2. Hazards identification

| Prevention                          | : Obtain special instructions before use. Do not handle until all safety precautions have<br>been read and understood. Wear protective gloves. Wear eye or face protection.<br>Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and<br>other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting<br>and all material-handling equipment. Use only non-sparking tools. Take precautionary<br>measures against static discharge. Keep container tightly closed. Use only outdoors or<br>in a well-ventilated area. Avoid release to the environment. Do not breathe vapor.<br>Wash hands thoroughly after handling.   |
|-------------------------------------|---|
| Response                            | : 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. |
| Storage                             | : Store locked up. Store in a well-ventilated place. Keep cool.   |
| Disposal                            | : Dispose of contents and container in accordance with all local, regional, national and international regulations.   |
| Supplemental label elements         | : Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and receiving equipment. These alone may be insufficient to remove static electricity. Do not taste or swallow. Wash thoroughly after handling.   |
| Hazards not otherwise<br>classified | : Static accumulating flammable liquid can become electrostatically charged even in<br>bonded and grounded equipment. Sparks may ignite liquid and vapor may cause flash<br>fire or explosion. Causes digestive tract burns. Prolonged or repeated contact may dry<br>skin and cause irritation.  |

## Section 3. Composition/information on ingredients

| Substance/mixture             | : Substance  |
|-------------------------------|--|
| Chemical name                 | : Fuels, diesel, No 2  |
| Other means of identification | <ul> <li>No. 2-D Grade Diesel Fuel Oil (defined by ASTM D-975); Treated or Refined Diesel<br/>Fuel No. 2; Grade 2 Distillate Fuel; Hydrodesulfurized Middle Distillate; C9-C16<br/>Petroleum Hydrocarbons</li> </ul> |

#### **CAS number/other identifiers**

| %         | CAS number   |  |
|-----------|--|--|
| 1 - 5     | 25551-13-7   |  |
| 0.5 - 1.5 | 91-20-3  |  |
| 0.5 - 1.5 | 92-52-4  |  |
| 0.5 - 1.5 | 98-82-8  |  |
| 0.5 - 1.5 | 1330-20-7  |  |
| 0.5 - 1.5 | 100-41-4   |  |
|           | 1 - 5<br>0.5 - 1.5<br>0.5 - 1.5<br>0.5 - 1.5<br>0.5 - 1.5<br>0.5 - 1.5 |  |

\* = Various \*\* = Mixture \*\*\* = Proprietary

Any concentration shown as a range is to protect confidentiality or is due to process 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  | <ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower<br/>eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10<br/>minutes. Get medical attention.</li> </ul>   |
|--------------|---|
| 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. 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 sympton   | ns/effects, acute and delayed   |  |
|--|---|--|
| Potential acute health e   | effects   |  |
| Eye contact  | : Causes eye irritation.  |  |
| Inhalation   | : Harmful if inhaled.   |  |
| Skin contact   | : Causes skin irritation. Defatting to the skin.  |  |
| Ingestion  | : Corrosive to the digestive tract. Causes burns. May be fatal if swallowed and enters airways.   |  |
| <u>Over-exposure signs/sy</u>  | <u>ymptoms</u>  |  |
| Eye contact  | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness  |  |
| Inhalation   | <ul> <li>Repeated or prolonged overexposure to solvents can cause brain or other nervous<br/>system damage. The symptoms can include the loss of memory, the loss of intellectual<br/>capacity and the loss of coordination.</li> </ul>   |  |
| Skin contact   | : Adverse symptoms may include the following:<br>irritation<br>redness<br>dryness<br>cracking   |  |
| Ingestion  | : Adverse symptoms may include the following:<br>stomach pains<br>nausea or vomiting  |  |
| Indication of immediate medical attention and special treatment needed, if necessary |   |  |
| Notes to physician   | : If ingested, this material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcoal and/or gastric lavage. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position. |  |
| Specific treatments  | : Treat symptomatically and supportively.   |  |

### Section 4. First aid measures

Protection of first-aiders : No a susp

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that gas or vapor is 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 caution when applying carbon dioxide in confined spaces.<br>SMALL FIRE: Steam, CO <sub>2</sub> , dry chemical or inert gas (e.g., nitrogen). LARGE FIRE:<br>Use foam, water fog or water spray. Water fog and spray are effective in cooling<br>containers and adjacent structures. However, water can cause frothing and/or may not<br>extinguish the fire. Water can be used to cool the external walls of vessels to prevent<br>excessive pressure, ignition or explosion.  |
| Unsuitable extinguishing media                 | : Do not use water jet.  |
| Specific hazards arising<br>from the chemical  | : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static accumulation may be significantly increased by the presence of small quantities of water or other contaminants. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| Hazardous thermal decomposition products       | : Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>Diesel engine exhaust  |
| 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<br>personnel                                      | : No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilled material. Shut off all ignition sources.<br>No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide<br>adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put<br>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".   |  |

### Section 6. Accidental release measures

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

#### 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. 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. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Restrict flow velocity according to API 2003 (2008), NFPA 77 (2007), and Laurence Britton, "Avoiding Static Ignition Hazards in Chemical Operations". To reduce potential for static discharge, ensure that all equipment is properly grounded and bonded and meets appropriate electrical classification requirements. Non equilibrium conditions may increase the fire hazard associated with this product. Always bond receiving containers to the fill pipe before and during loading. Always confirm that receiving container is properly grounded. Bonding and grounding alone may be inadequate to eliminate fire and explosion hazards. Carefully review operations that may increase the risks such as tank and container filling, tank cleaning, sampling, gauging, loading, filtering, mixing, agitation, etc. In addition to bonding and grounding, efforts to mitigate the hazards may include, but are not limited to, ventilation, inerting and/or reduction of transfer velocities. Always keep nozzle in contact with the container throughout the loading process. Do NOT fill any portable container in or on a vehicle. Special precautions, such as reduced loading rates and increased monitoring, must be observed during "switch loading" operations (i.e., loading this material in tanks or shipping compartments that previously contained a dissimilar product). 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.

# Section 7. Handling and storage

| : Store in accordance with local regulations. Store in a segregated and approved area.<br>Store in original container protected from direct sunlight in a dry, cool and well-ventilated<br>area, away from incompatible materials (see Section 10) and food and drink. Store<br>locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep<br>container tightly closed and sealed until ready for use. Containers that have been<br>opened must be carefully resealed and kept upright to prevent leakage. Do not store in<br>unlabeled containers. Use appropriate containment to avoid environmental<br>contamination. See Section 10 for incompatible materials before handling or use.<br>Bulk Storage Conditions: Maintain all storage tanks in accordance with applicable                     |
|---|
| regulations. Use necessary controls to monitor tank inventories. Inspect all storage tanks on a periodic basis. Test tanks and associated piping for tightness. Maintain the automatic leak detection devices to assure proper working condition.   |
| Head spaces in tanks and other containers may contain a mixture of air and vapor in<br>the flammable range. Vapor may be ignited by static discharge. Storage area must<br>meet OSHA requirements and applicable fire codes. Additional information regarding<br>the design and control of hazards associated with the handling and storage of<br>flammable and combustible liquids may be found in professional and industrial<br>documents including, but not limited to, the National Fire Protection Association (NFPA)<br>publications NFPA 30 ("Flammable and Combustible Liquid Code"), NFPA 77<br>("Recommended Practice on Static Electricity") and the American Petroleum Institute<br>(API) Recommended Practice 2003, ("Protection Against Ignitions Arising Out of Static,<br>Lightning, and Stray Currents"). |
|   |

## Section 8. Exposure controls/personal protection

| Occupational exposure limits |  |
|------------------------------|--|
| Fuels, diesel, No 2          | ACGIH TLV (United States, 2/2010).<br>Absorbed through skin.<br>TWA: 100 mg/m <sup>3</sup> , (measured as total<br>hydrocarbons) 8 hours. Form: Total<br>hydrocarbons  |
| Benzene, trimethyl-          | ACGIH TLV (United States, 3/2017).<br>TWA: 25 ppm 8 hours.<br>TWA: 123 mg/m <sup>3</sup> 8 hours.  |
| Naphthalene                  | ACGIH TLV (United States). Absorbed<br>through skin.<br>STEL: 15 ppm 15 minutes.<br>ACGIH TLV (United States, 3/2017).<br>Absorbed through skin.<br>TWA: 10 ppm 8 hours.<br>TWA: 52 mg/m <sup>3</sup> 8 hours.<br>NIOSH REL (United States, 10/2016).<br>TWA: 10 ppm 10 hours.<br>TWA: 50 mg/m <sup>3</sup> 10 hours.<br>STEL: 15 ppm 15 minutes.<br>STEL: 75 mg/m <sup>3</sup> 15 minutes.<br>OSHA PEL (United States, 6/2016).<br>TWA: 10 ppm 8 hours. |
| biphenyl                     | TWA: 50 mg/m <sup>3</sup> 8 hours.<br><b>OSHA PEL Z2 (United States).</b><br>TWA: 0.2 ppm 8 hours.<br><b>ACGIH TLV (United States, 3/2017).</b><br>TWA: 0.2 ppm 8 hours.<br>TWA: 1.3 mg/m <sup>3</sup> 8 hours.<br><b>NIOSH REL (United States, 10/2016).</b><br>TWA: 1 mg/m <sup>3</sup> 10 hours.<br>TWA: 0.2 ppm 10 hours.<br><b>OSHA PEL (United States, 6/2016).</b><br>TWA: 0.2 ppm 8 hours.<br>TWA: 1 mg/m <sup>3</sup> 8 hours.                  |

**Control parameters** 

# Section 8. Exposure controls/personal protection

| Cumene                           | NIOSH REL (United States, 10/2016).<br>Absorbed through skin.<br>TWA: 50 ppm 10 hours.<br>TWA: 245 mg/m³ 10 hours.<br>ACGIH TLV (United States, 3/2017).<br>TWA: 50 ppm 8 hours.<br>OSHA PEL (United States, 6/2016).<br>Absorbed through skin.<br>TWA: 50 ppm 8 hours.<br>TWA: 245 mg/m³ 8 hours.   |
|----------------------------------|--|
| Xylene                           | ACGIH TLV (United States, 3/2017).<br>TWA: 100 ppm 8 hours.<br>TWA: 434 mg/m <sup>3</sup> 8 hours.<br>STEL: 150 ppm 15 minutes.<br>STEL: 651 mg/m <sup>3</sup> 15 minutes.<br>OSHA PEL (United States, 6/2016).<br>TWA: 100 ppm 8 hours.<br>TWA: 435 mg/m <sup>3</sup> 8 hours.  |
| Ethylbenzene                     | ACGIH TLV (United States, 3/2017).<br>TWA: 20 ppm 8 hours.<br>NIOSH REL (United States, 10/2016).<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.<br>OSHA PEL (United States, 6/2016).<br>TWA: 100 ppm 8 hours.<br>TWA: 435 mg/m <sup>3</sup> 8 hours.     |
| 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 |

|                                 | vapor of dust concentrations below any lower explosive innits. Use explosion-proof ventilation equipment.  |
|---------------------------------|--|
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure<br>they comply with the requirements of environmental protection legislation. In some<br>cases, vapor controls, filters or engineering modifications to the process equipment wil<br>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 glasses equipped with side shields are recommended as minimum protection in industrial settings. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. 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 inhalation hazards exist, a full-face respirator may be required instead. |
| Skin protection     |   |

# Section 8. Exposure controls/personal protection

| -                      | · · ·   |
|------------------------|---|
| Hand protection        | : Avoid skin contact with liquid. Chemical-resistant gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: Heavy duty, industrial grade chemically resistant gloves constructed of nitrile, neoprene, polyethylene, fluoroelastomer rubber or polyvinyl chloride as approved by glove manufacturer. 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. Leather gloves are not protective for liquid contact. |
| Body protection        | <ul> <li>Avoid skin contact with liquid. Personal protective equipment for the body should be<br/>selected based on the task being performed and the risks involved and should be<br/>approved by a specialist before handling this product.</li> </ul>   |
| Other skin protection  | : Avoid skin contact with liquid. 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. Leather boots are not protective for liquid contact.  |
| Respiratory protection | : Avoid inhalation of gases, vapors, mists or dusts. Use a properly fitted, air-purifying or supplied-air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If an air purifying respirator is appropriate, use one equipped with cartridges rated for organic vapors.   |

## Section 9. Physical and chemical properties

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

| Date of issue/Date of revision                          | : 8/17/2023 Date             | of previous issue      | : 7/31/2018           | Version | :6 |
|---|------------------------------|------------------------|-----------------------|---------|----|
| Median particle size                                    | :                            |                        |                       |         |    |
| Particle characteristics                                |                              |                        |                       |         |    |
| Flow time (ISO 2431)                                    | : Not available.             |                        |                       |         |    |
| Conductivity  | : <50 picosiemens/           | meter (unadditized)    |                       |         |    |
| Viscosity   | : Kinematic (room t          | emperature): 0.03 cr   | m²/s (3 cSt)          |         |    |
| Auto-ignition temperature                               | ÷                            |                        |                       |         |    |
| Partition coefficient: n-<br>octanol/water              | : >3.3                       |                        |                       |         |    |
| Solubility in water                                     | : 0.005 g/l                  |                        |                       |         |    |
| Solubility  | , , ,                        | ble in the following m | aterials: cold water. |         |    |
| Gravity, °API   | : Estimated 37 @ 6           |                        |                       |         |    |
| Density gm/cm <sup>3</sup>                              | : 0.87 to 0.95 g/cm          |                        |                       |         |    |
| Density Ibs/gal   | : Estimated 7 lbs/g          |                        |                       |         |    |
| Relative density  | : 0.84                       |                        |                       |         |    |
| Relative vapor density                                  | : 5 [Air = 1]                |                        |                       |         |    |
| Vapor pressure  | 4                            |                        |                       |         |    |
| Lower and upper explosive (flammable) limits            | : Lower: 0.6%<br>Upper: 6.5% |                        |                       |         |    |
| Evaporation rate  | : <1 (butyl acetate          | = 1)                   |                       |         |    |
| Flash point   | : Closed cup: ≥52°           | C (≥125.6°F) [Pensk    | y-Martens]            |         |    |
| Boiling point, initial boiling point, and boiling range | : 282 to 338°C (539          | 9.6 to 640.4°F)        |                       |         |    |
| Melting point   | : -30 to -18°C (-22          | ,                      |                       |         |    |
| рН  | : Not available.             |                        |                       |         |    |
| Odor  | : Characteristic.            |                        |                       |         |    |
| Color   | : Not available.             |                        |                       |         |    |
| Physical state  | : Liquid.                    |                        |                       |         |    |
| <u>Appearance</u>                                       |                              |                        |                       |         |    |

# Section 10. Stability and reactivity

| Reactivity                         | : Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS Definition(s).   |
|------------------------------------|---|
| Chemical stability                 | : The product is stable.  |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.   |
| Conditions to avoid                | : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. Do not store with strong oxidizing agents. |
| Incompatible materials             | : Reactive or incompatible with the following materials:<br>oxidizing materials   |
| Hazardous decomposition products   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.  |

## Section 11. Toxicological information

### Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result                | Species | Dose        | Exposure |
|-------------------------|-----------------------|---------|-------------|----------|
| Benzene, trimethyl-     | LD50 Oral             | Rat     | 8970 mg/kg  | -        |
| Naphthalene             | LD50 Oral             | Rat     | 490 mg/kg   | -        |
| biphenyl                | LD50 Dermal           | Rabbit  | >5010 mg/kg | -        |
|                         | LD50 Oral             | Rat     | 2140 mg/kg  | -        |
| Cumene                  | LC50 Inhalation Vapor | Mouse   | 10 g/m³     | 7 hours  |
|                         | LD50 Dermal           | Rabbit  | 12300 uL/kg | -        |
|                         | LD50 Oral             | Rat     | 2.9 g/kg    | -        |
|                         | LD50 Oral             | Rat     | 4000 mg/kg  | -        |
| Xylene                  | LC50 Inhalation Vapor | Rat     | 5000 ppm    | 4 hours  |
| -                       | LC50 Inhalation Vapor | Rat     | 6700 ppm    | 4 hours  |
|                         | LD50 Oral             | Mouse   | 2119 mg/kg  | -        |
|                         | LD50 Oral             | Rat     | 4300 mg/kg  | -        |
|                         | LD50 Oral             | Rat     | 4300 mg/kg  | -        |
| Ethylbenzene            | LD50 Dermal           | Rabbit  | >5000 mg/kg | -        |
|                         | LD50 Oral             | Rat     | 3500 mg/kg  | -        |

**Conclusion/Summary** : No additional information.

#### Irritation/Corrosion

| Product/ingredient name        | Result                   | Species     | Score       | Exposure                   | Observation |
|--------------------------------|--------------------------|-------------|-------------|----------------------------|-------------|
| Benzene, trimethyl-            | Eyes - Mild irritant     | Rabbit      | -           | 24 hours 500<br>milligrams | -           |
|                                | Skin - Moderate irritant | Rabbit      | -           | 24 hours 500<br>milligrams | -           |
| Naphthalene                    | Skin - Mild irritant     | Rabbit      | -           | 495<br>milligrams          | -           |
| biphenyl                       | Eyes - Mild irritant     | Rabbit      | -           | 100<br>milligrams          | -           |
|                                | Skin - Severe irritant   | Rabbit      | -           | 24 hours 500 microliters   | -           |
| Cumene                         | Eyes - Mild irritant     | Rabbit      | -           | 86 milligrams              | -           |
|                                | Skin - Mild irritant     | Rabbit      | -           | 24 hours 10<br>milligrams  | -           |
| Xylene                         | Skin - Mild irritant     | Rat         | -           | 8 hours 60<br>microliters  | -           |
| Date of issue/Date of revision | : 8/17/2023 Date of prev | vious issue | : 7/31/2018 | Version                    | :6 9        |

## Section 11. Toxicological information

|                        | Skin - Moderate irritant  | Rabbit  | -   | 24 hours 500 -  | -  |
|------------------------|---|---|---|---|--|
|                        |   |   |   | milligrams  |  |
|                        | Skin - Moderate irritant  | Rabbit  | -   | 100 Percent -   | -  |
| Ethylbenzene           | Skin - Mild irritant  | Rabbit  | -   | 24 hours 15 -   | -  |
|                        |   |   |   | milligrams  |  |
| Skin                   | : No additional information   | I.  |   |   |  |
| Eyes                   | : No additional information   | I.  |   |   |  |
| Respiratory            | : No additional information   | I.  |   |   |  |
| <b>Sensitization</b>   |   |   |   |   |  |
| Not available.         |   |   |   |   |  |
| Skin                   | : No additional information   | l.  |   |   |  |
| Respiratory            | : No additional information   | l.  |   |   |  |
| <b>Mutagenicity</b>    |   |   |   |   |  |
| Not available.         |   |   |   |   |  |
| Conclusion/Summary     | : No additional information   | 1.  |   |   |  |
| <b>Carcinogenicity</b> |   |   |   |   |  |
| Not available.         |   |   |   |   |  |
| Conclusion/Summary     | : Diesel exhaust particul<br>mice exposed to unflitere<br>epidemiological studies h<br>workers and bladder can<br>to diesel engine exhaust. | ed diesel fuel e<br>nave identified<br>cer in bus and | xhaust in chi<br>increase inci<br>truck drivers | onic inhalation studie<br>dences of lung cance<br>possibly associated | es. Further,<br>er in US railroad<br>with exposure |

### **Classification**

| Product/ingredient name    | OSHA | IARC | NTP  |
|----------------------------|------|------|--|
| Fuels, diesel, No 2        | -    | 3    | -  |
| Diesel exhaust particulate | -    | 1    | Reasonably anticipated to be a human carcinogen. |
| Naphthalene                | -    | 2B   | Reasonably anticipated to be a human carcinogen. |
| Cumene                     | -    | 2B   | Reasonably anticipated to be a human carcinogen. |
| Xylene                     | -    | 3    | -  |
| Ethylbenzene               | -    | 2B   | -  |

diesel exhaust as a potential carcinogen.

particulates, a complex mixture of combustion products of diesel fuel, is reasonably anticipated to be a human carcinogen. In addition, NIOSH has identified complete

#### Reproductive toxicity

Not available.

### **Conclusion/Summary** : No additional information.

### **Teratogenicity**

Not available.

### **Conclusion/Summary** : No additional information.

### Specific target organ toxicity (single exposure)

| Name                | Category   | Route of exposure | Target organs   |
|---------------------|------------|-------------------|---|
| Benzene, trimethyl- | Category 3 | Not applicable.   | Respiratory tract<br>irritation and<br>Narcotic effects |
| biphenyl            | Category 3 | Not applicable.   | Respiratory tract irritation                            |
| Cumene              | Category 3 | Not applicable.   | Respiratory tract irritation                            |
| Ethylbenzene        | Category 3 | Not applicable.   | Respiratory tract irritation                            |

# Section 11. Toxicological information

### Specific target organ toxicity (repeated exposure)

| Name                |            | Route of<br>exposure | Target organs                   |
|---------------------|------------|----------------------|---------------------------------|
| Benzene, trimethyl- | Category 2 |                      | central nervous<br>system (CNS) |
| Xylene              | Category 2 | Not determined       | hearing organs                  |

#### **Aspiration hazard**

| Name   | Result   |
|--------|--|
| Cumene | ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1 |

| Information on the likely routes of exposure | : Routes of entry anticipated: Dermal, Inhalation.  |
|--|---|
| Potential acute health effects               | <u>S</u>  |
| Eye contact                                  | : Causes eye irritation.  |
| Inhalation                                   | : Harmful if inhaled.   |
| Skin contact                                 | : Causes skin irritation. Defatting to the skin.  |
| Ingestion                                    | : Corrosive to the digestive tract. Causes burns. May be fatal if swallowed and enters airways.   |
| Symptoms related to the phy                  | vsical, chemical and toxicological characteristics  |
| Eye contact                                  | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness  |
| Inhalation                                   | : Repeated or prolonged overexposure to solvents can cause brain or other nervous system damage. The symptoms can include the loss of memory, the loss of intellectual capacity and the loss of coordination. |
| Skin contact                                 | : Adverse symptoms may include the following:<br>irritation<br>redness<br>dryness<br>cracking   |
| Ingestion                                    | : Adverse symptoms may include the following:<br>stomach pains<br>nausea or vomiting  |
| Delayed and immediate effect                 | cts and also chronic effects from short and long term exposure  |
| Short term exposure                          |   |
| Potential immediate<br>effects               | : Not available.  |
| Potential delayed effects                    | : Not available.  |
| <u>Long term exposure</u>                    |   |
| Potential immediate<br>effects               | : Not available.  |
| Potential delayed effects                    | : Not available.  |
| Potential chronic health eff                 | <u>ects</u>   |
| Not available.                               |   |
| General                                      | : May cause damage to organs through prolonged or repeated exposure.  |
| Carcinogenicity                              | : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.  |
| Mutagenicity                                 | : No known significant effects or critical hazards.   |
| Date of issue/Date of revision               | : 8/17/2023 Date of previous issue : 7/31/2018 Version : 6 11/17  |

## Section 11. Toxicological information

Teratogenicity Developmental effects Fertility effects : No known significant effects or critical hazards.

: No known significant effects or critical hazards.

: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

N/A

# Section 12. Ecological information

| Product/ingredient name | Result                              | Species  | Exposure |
|-------------------------|-------------------------------------|--|----------|
| Benzene, trimethyl-     | Acute LC50 5600 µg/l Marine water   | Crustaceans - Palaemonetes pugio   | 48 hours |
| Naphthalene             | Acute EC50 1.6 ppm Fresh water      | Daphnia - Daphnia magna  | 48 hours |
|                         | Acute LC50 2350 µg/l Marine water   | Crustaceans - Palaemonetes pugio   | 48 hours |
|                         | Acute LC50 213 μg/l Fresh water     | Fish - Melanotaenia fluviatilis -<br>Larvae                                  | 96 hours |
|                         | Chronic NOEC 0.5 mg/l Marine water  | Crustaceans - Uca pugnax - Adult   | 3 weeks  |
|                         | Chronic NOEC 1.5 mg/l Fresh water   | Fish - Oreochromis mossambicus   | 60 days  |
| biphenyl                | Acute LC50 360 μg/l Fresh water     | Daphnia - Daphnia magna -<br>Neonate   | 48 hours |
|                         | Acute LC50 1450 µg/l Fresh water    | Fish - Pimephales promelas   | 96 hours |
|                         | Chronic NOEC 0.17 mg/l Fresh water  | Daphnia - Daphnia magna -<br>Neonate   | 21 days  |
|                         | Chronic NOEC 0.229 mg/l Fresh water | Fish - Oncorhynchus mykiss   | 87 days  |
| Cumene                  | Acute EC50 2600 μg/l Fresh water    | Algae - Pseudokirchneriella<br>subcapitata                                   | 72 hours |
|                         | Acute EC50 7400 μg/l Fresh water    | Crustaceans - Artemia sp<br>Nauplii  | 48 hours |
|                         | Acute EC50 10600 μg/l Fresh water   | Daphnia - Daphnia magna -<br>Neonate   | 48 hours |
|                         | Acute LC50 2700 µg/l Fresh water    | Fish - Oncorhynchus mykiss   | 96 hours |
| Xylene                  | Acute EC50 90 mg/l Fresh water      | Crustaceans - Cypris subglobosa  | 48 hours |
|                         | Acute LC50 8.5 ppm Marine water     | Crustaceans - Palaemonetes<br>pugio - Adult                                  | 48 hours |
|                         | Acute LC50 8500 µg/l Marine water   | Crustaceans - Palaemonetes<br>pugio  | 48 hours |
|                         | Acute LC50 15700 μg/l Fresh water   | Fish - Lepomis macrochirus -<br>Juvenile (Fledgling, Hatchling,<br>Weanling) | 96 hours |
|                         | Acute LC50 19000 µg/l Fresh water   | Fish - Lepomis macrochirus   | 96 hours |
|                         | Acute LC50 13400 µg/l Fresh water   | Fish - Pimephales promelas   | 96 hours |
|                         | Acute LC50 16940 µg/l Fresh water   | Fish - Carassius auratus   | 96 hours |
| Ethylbenzene            | Acute EC50 4600 µg/l Fresh water    | Algae - Pseudokirchneriella<br>subcapitata                                   | 72 hours |
|                         | Acute EC50 3600 μg/l Fresh water    | Algae - Pseudokirchneriella subcapitata                                      | 96 hours |
|                         | Acute EC50 6530 μg/l Fresh water    | Crustaceans - Artemia sp<br>Nauplii  | 48 hours |
|                         | Acute EC50 2930 µg/l Fresh water    | Daphnia - Daphnia magna -<br>Neonate   | 48 hours |
|                         | Acute LC50 4200 µg/l Fresh water    | Fish - Oncorhynchus mykiss   | 96 hours |

**Conclusion/Summary** 

: Not available.

#### Persistence and degradability

## Section 12. Ecological information

#### Not available.

**Conclusion/Summary** : Not available.

#### **Bioaccumulative potential**

| Product/ingredient name | LogPow     | BCF         | Potential |
|-------------------------|------------|-------------|-----------|
| Fuels, diesel, No 2     | >3.3       | -           | low       |
| Benzene, trimethyl-     | 3.4 to 3.8 | -           | low       |
| Naphthalene             | 3.4        | 36.5 to 168 | low       |
| biphenyl                | 4.008      | 1900        | high      |
| Cumene                  | 3.55       | 35.48       | low       |
| Xylene                  | 3.12       | 8.1 to 25.9 | low       |
| Ethylbenzene            | 3.6        | -           | low       |

#### **Mobility in soil**

| Soil/water partition | : Not available. |
|----------------------|------------------|
| coefficient (Koc)    |                  |

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. D018  |

# Section 14. Transport information

|                               | DOT Classification | IMDG        | IATA        |
|-------------------------------|--------------------|-------------|-------------|
| UN number                     | NA1993             | UN1202      | UN1202      |
| UN proper<br>shipping name    | Diesel Fuel        | DIESEL FUEL | Diesel Fuel |
| Transport<br>hazard class(es) | 3                  | 3           | 3           |
| Packing group                 | Ш                  | III         | Ш           |
| Environmental<br>hazards      | No.                | No.         | No.         |

#### **Additional information**

### Section 14. Transport information

| DOT Classification                             | : | This product may be re-classified as "Combustible Liquid," unless transported by vessel<br>or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are<br>not regulated as hazardous materials in package sizes less than the product reportable<br>quantity.<br><b>Reportable quantity</b> 11223.3 lbs / 5095.4 kg [1479.2 gal / 5599.3 L]. Package sizes<br>shipped in quantities less than the product reportable quantity are not subject to the RQ<br>(reportable quantity) transportation requirements.<br><b>Limited quantity</b> Yes.<br><b>Packaging instruction</b> Exceptions: 150. Non-bulk: 203. Bulk: 242.<br><b>Quantity limitation</b> Passenger aircraft/rail: 60 L. Cargo aircraft: 220 L.<br><b>Special provisions</b> 144, B1, IB3, T4, TP1, TP29<br><b>Remarks</b> 49 CFR 173.150 (f)(1) states that a flammable liquid with a flash point at or<br>above 38°C (100°F) that does not meet the definition of any other hazard class may be<br>reclassed as a combustible liquid. This provision does not apply to transportation by<br>vessel or aircraft except where other means of transportation is impracticable. |
|--|---|--|
| TDG Classification                             | : | Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).  |
| IMDG   | : | Emergency schedules F-E, S-E<br>Special provisions 363   |
| ΙΑΤΑ   | : | <b>Quantity limitation</b> Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355.<br>Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger<br>Aircraft: 10 L. Packaging instructions: Y344.<br><b>Special provisions</b> A3  |
| Special precautions for user                   | : | <b>Transport within user's premises:</b> 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 | <ul> <li>United States inventory (TSCA 8b): All components are listed or exempted.</li> <li>Clean Water Act (CWA) 307: naphthalene; ethylbenzene; toluene; benzene</li> </ul>   |
|--------------------------|---|
|                          | Clean Water Act (CWA) 311: naphthalene; xylene; ethylbenzene; toluene; benzene  |
|                          | This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802. |
| SARA 302/304             |   |
| Composition/information  | on ingredients  |
| SARA 304 RQ              | : Not applicable.   |
| <u>SARA 311/312</u>      |   |
| Classification           | <ul> <li>FLAMMABLE LIQUIDS - Category 3<br/>ACUTE TOXICITY (inhalation) - Category 4<br/>SKIN IRRITATION - Category 2<br/>EYE IRRITATION - Category 2B<br/>CARCINOGENICITY - Category 2<br/>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous<br/>system (CNS)) - Category 2</li> </ul>   |

HNOC - Static-accumulating flammable liquid Composition/information on ingredients

ASPIRATION HAZARD - Category 1 HNOC - Corrosive to digestive tract

## Section 15. Regulatory information

| Name                       | %         | Classification   |  |
|----------------------------|-----------|--|--|
| Fuels, diesel, No 2        | >99       | FLAMMABLE LIQUIDS - Category 3   |  |
|                            |           | ACUTE TOXICITY (inhalation) - Category 4                                   |  |
|                            |           | SKIN IRRITATION - Category 2   |  |
|                            |           | EYE IRRITATION - Category 2B   |  |
|                            |           | CARCINOGENICITY - Category 2   |  |
|                            |           | SPECIFIC TARGET ORGAN TOXICITY (REPEATED                                   |  |
|                            |           | EXPOSURE) (central nervous system (CNS)) - Category 2                      |  |
|                            |           | ASPIRATION HAZARD - Category 1   |  |
|                            |           | HNOC - Corrosive to digestive tract  |  |
|                            |           | HNOC - Static-accumulating flammable liquid                                |  |
| Diesel exhaust particulate | 1 - 5     | CARCINOGENICITY (inhalation) - Category 2                                  |  |
| Benzene, trimethyl-        | 1 - 5     | FLAMMABLE LIQUIDS - Category 3   |  |
|                            |           | ACUTE TOXICITY (inhalation) - Category 4                                   |  |
|                            |           | SKIN IRRITATION - Category 2   |  |
|                            |           | EYE IRRITATION - Category 2A   |  |
|                            |           | 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) (central nervous system (CNS)) - Category 2                      |  |
|                            |           | ASPIRATION HAZARD - Category 1   |  |
| Naphthalene                | 0.5 - 1.5 | FLAMMABLE SOLIDS - Category 2  |  |
|                            |           | ACUTE TOXICITY (oral) - Category 4   |  |
|                            |           | CARCINOGENICITY - Category 2   |  |
| biphenyl                   | 0.5 - 1.5 | SKIN IRRITATION - Category 2   |  |
|                            |           | EYE IRRITATION - Category 2A   |  |
|                            |           | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)                           |  |
| 0                          |           | (Respiratory tract irritation) - Category 3                                |  |
| Cumene                     | 0.5 - 1.5 | FLAMMABLE LIQUIDS - Category 3   |  |
|                            |           | EYE IRRITATION - Category 2A   |  |
|                            |           | CARCINOGENICITY (inhalation) - Category 2                                  |  |
|                            |           | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)                           |  |
|                            |           | (Respiratory tract irritation) - Category 3                                |  |
| Xulana.                    | 0.5 - 1.5 | ASPIRATION HAZARD - Category 1   |  |
| Xylene                     | 0.5 - 1.5 | FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (inhalation) - Category 4 |  |
|                            |           | SKIN IRRITATION - Category 2   |  |
|                            |           | EYE IRRITATION - Category 2A   |  |
|                            |           | SPECIFIC TARGET ORGAN TOXICITY (REPEATED                                   |  |
|                            |           | EXPOSURE) (hearing organs) - Category 2                                    |  |
| Ethylbenzene               | 0.5 - 1.5 | FLAMMABLE LIQUIDS - Category 2   |  |
|                            | 0.0 1.0   | SKIN IRRITATION - Category 2   |  |
|                            |           | EYE IRRITATION - Category 2A   |  |
|                            |           | CARCINOGENICITY (inhalation) - Category 2                                  |  |
|                            |           | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)                           |  |
| 1                          | 1         |  |  |
|                            |           | (Respiratory tract irritation) - Category 3                                |  |

#### <u>SARA 313</u>

|                                    | Product name | CAS number          | %        |
|------------------------------------|--------------|---------------------|----------|
| Form R - Reporting<br>requirements |              | 91-20-3<br>100-41-4 | <1<br><1 |
| Supplier notification              |              | 91-20-3<br>100-41-4 | <1<br><1 |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

**Massachusetts** 

: The following components are listed: ethyltoluene; trimethylbenzene

| Date of issue/Date of revision | : 8/17/2023 | Date of previous issue | : 7/31/2018 | Version : 6 | 15/17 |
|--------------------------------|-------------|------------------------|-------------|-------------|-------|
|--------------------------------|-------------|------------------------|-------------|-------------|-------|

### Section 15. Regulatory information

| New York     | <ul> <li>The following components are listed: Naphthalene; Cumene; Benzene, 1-methylethyl-;<br/>Ethylbenzene</li> </ul>   |
|--------------|---|
| New Jersey   | <ul> <li>The following components are listed: ETHYLTOLUENES; BENZENE, ETHYLMETHYL-;<br/>TRIMETHYL BENZENE (mixed isomers); BENZENE, TRIMETHYL-; NAPHTHALENE;<br/>MOTH FLAKES; cumene; ethylbenzene</li> </ul> |
| Pennsylvania | <ul> <li>The following components are listed: ethyltoluene; trimethylbenzene; NAPHTHALENE;<br/>cumene; ethylbenzene</li> </ul>  |

#### California Prop. 65 Clear and Reasonable Warnings (2018)

▲ WARNING: This product can expose you to Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Diesel exhaust particulate, Naphthalene, Cumene, Ethylbenzene, which are known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause cancer, and roluene, which is known to the State of California to cause cancer.

| Ingredient name            | %    | Cancer | Reproductive | No significant risk<br>level | Maximum<br>acceptable dosage<br>level |
|----------------------------|------|--------|--------------|------------------------------|---------------------------------------|
| Diesel exhaust particulate | <3   | Yes.   | No.          | -                            | -                                     |
| naphthalene                | <1   | Yes.   | No.          | Yes.                         | -                                     |
| cumene                     | <1   | Yes.   | No.          | -                            | -                                     |
| ethylbenzene               | <1   | Yes.   | No.          | Yes.                         | -                                     |
| toluene                    | <0.1 | No.    | Yes.         | -                            | Yes.                                  |
| benzene                    | <0.1 | Yes.   | Yes.         | Yes.                         | Yes.                                  |

International regulations

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

Not listed.

#### Inventory list

| United States     | : All components are listed or exempted.  |
|-------------------|---|
| Australia         | : All components are listed or exempted.  |
| Canada            | : All components are listed or exempted.  |
| China             | : All components are listed or exempted.  |
| Japan             | : Japan inventory (CSCL): All components are listed or exempted.<br>Japan inventory (ISHL): Not determined. |
| Malaysia          | : Not determined.   |
| New Zealand       | : All components are listed or exempted.  |
| Philippines       | : All components are listed or exempted.  |
| Republic of Korea | : All components are listed or exempted.  |
| Taiwan            | : Not determined.   |
| Thailand          | : Not determined.   |
| Turkey            | : Not determined.   |
| Viet Nam          | : Not determined.   |
|                   |   |

### **Section 16. Other information**

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



### Section 16. Other information

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

|   | Justification   |  |  |  |
|---|---|--|--|--|
| FLAMMABLE LIQUIDS - Cate<br>ACUTE TOXICITY (inhalation<br>SKIN IRRITATION - Category<br>EYE IRRITATION - Category<br>CARCINOGENICITY - Categor<br>SPECIFIC TARGET ORGAN<br>system (CNS)) - Category 2<br>ASPIRATION HAZARD - Cate<br>AQUATIC HAZARD (LONG-T | Expert judgment<br>Expert judgment<br>Expert judgment<br>Expert judgment<br>Expert judgment<br>Calculation method<br>Expert judgment<br>Expert judgment   |  |  |  |
| <u>History</u>  |   |  |  |  |
| Date of printing  | : 10/3/2023   |  |  |  |
| Date of issue/Date of revision  | : 8/17/2023   |  |  |  |
| Date of previous issue  | : 7/31/2018   |  |  |  |
| Version   | : 6   |  |  |  |
| Key to abbreviations  | <ul> <li>ATE = Acute Toxicity Estimate</li> <li>BCF = Bioconcentration Factor</li> <li>GHS = Globally Harmonized System of Classification and Labelling of Chemicals</li> <li>IATA = International Air Transport Association</li> <li>IBC = Internediate Bulk Container</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>LogPow = logarithm of the octanol/water partition coefficient</li> <li>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973</li> <li>as modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>UN = United Nations</li> </ul> |  |  |  |
| References  | : Not available.  |  |  |  |

Indicates information that has changed from previously issued version.

#### Notice to reader

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