# SAFETY DATA SHEET

Solvent Blend 19389



### **Section 1. Identification**

**GHS** product identifier

: Solvent Blend 19389

**Synonyms** 

: Petroleum hydrocarbon solvent; CITGO® Material Code: 19389

Code
MSDS #

19389

MSDS # : 19389

Supplier's details

: CITGO Petroleum Corporation 1701 Golf Road, Suite 1-1101 Rolling Meadows, IL 60008-4295

custsol@citgo.com

Emergency telephone number

: Technical Contact: (847) 734-7630

(8am - 4pm CT M-F)

Medical Emergency: (832) 486-4700 CHEMTREC Emergency: (800) 424-9300

(United States Only)

## 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 3

ACUTE TOXICITY: INHALATION - Category 4 SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

CARCINOGENICITY: INHALATION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): INHALATION

[ears] - Category 2

**ASPIRATION HAZARD - Category 1** 

**GHS label elements** 

Hazard pictograms







Signal word

: Danger

**Hazard statements** 

: Flammable liquid and vapor.

Harmful if inhaled.

Causes serious eye irritation.

Causes skin irritation.

Suspected of causing cancer if inhaled. May be fatal if swallowed and enters airways.

May cause drowsiness and dizziness.

May cause damage to organs through prolonged or repeated exposure if inhaled. (ears)

**Precautionary statements** 

**Prevention** 

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash hands thoroughly after handling.

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## Section 2. Hazards identification

#### Response

: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove victim to fresh air and keep at rest in a position 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. 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 Disposal

- : Store locked up. Store in a well-ventilated place. Keep cool.
- : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified

: None known.

# Section 3. Composition/information on ingredients

Substance/mixture

: Substance

Other means of identification

: Petroleum hydrocarbon solvent; CITGO® Material Code: 19389

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

CAS number : Mixture

| 30 - 60 | **                                     |
|---------|--|
| 10 - 30 | **                                     |
| 10 - 30 | **                                     |
| 5 - 10  | **                                     |
| 5 - 10  | 1330-20-7                              |
| 1 - 5   | 100-41-4                               |
|         | 10 - 30<br>10 - 30<br>5 - 10<br>5 - 10 |

<sup>\* =</sup> Various \*\* = Mixture \*\*\* = Proprietary

Any concentration shown as a range is to protect confidentiality or is due to process variation.

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 gas or vapor is 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

: Flush contaminated skin with plenty of water. 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.

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## Section 4. First aid measures

#### 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 symptoms/effects, acute

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause

drowsiness and dizziness.

Skin contact : Causes skin irritation.

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and

enters airways. Irritating to mouth, throat and stomach.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

redness

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion** : Adverse symptoms may include the following:

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.

**Protection of first-aiders** 

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

Specific hazards arising from the chemical

: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

### **Extinguishing media**

Suitable extinguishing media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

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## Section 5. Fire-fighting measures

**Unsuitable extinguishing** media

: Do not use water jet.

**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 nonemergency 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).

#### 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. 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. Non equilibrium conditions may increase the fire hazard associated with this product.

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# Section 7. Handling and storage

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.

### 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.

# including any incompatibilities

Conditions for safe storage, : 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.

> 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.

## Section 8. Exposure controls/personal protection

### **Control parameters**

#### Occupational exposure limits

| Ingredient name        | Exposure limits                               |
|------------------------|---|
| C9-C15 Cycloalkanes    | ACGIH TLV (United States).                    |
|                        | TWA: 400 ppm 8 hours. Form: Methylcyclohexane |
| C7-C8 Alkanes          | ACGIH TLV (United States).                    |
|                        | TWA: 1500 mg/m <sup>3</sup>                   |
| Xylenes, mixed isomers | ACGIH TLV (United States, 4/2014).            |
| -                      | TWA: 100 ppm 8 hours.                         |
|                        | TWA: 434 mg/m³ 8 hours.                       |
|                        | STEL: 150 ppm 15 minutes.                     |
|                        | STEL: 651 mg/m³ 15 minutes.                   |
|                        | OSHA PEL (United States, 2/2013).             |
|                        | TWA: 100 ppm 8 hours.                         |
|                        | TWA: 435 mg/m <sup>3</sup> 8 hours.           |
| Ethylbenzene           | ACGIH TLV (United States, 4/2014).            |
| -                      | TWA: 20 ppm 8 hours.                          |
|                        | OSHA PEL (United States, 2/2013).             |
|                        | TWA: 100 ppm 8 hours.                         |
|                        | TWA: 435 mg/m <sup>3</sup> 8 hours.           |
| Colvent Pland 10200    | ACCILITI V (United States)                    |

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#### **ACGIH TLV (United States)**

207 ppm (1000 mg/m<sup>3</sup>) 8 hour(s)

Notes: The TLV for the hydrocarbon solvent is based on the procedure described in Appendix H ("Reciprocal Calculations Method for Certain Refined Hydrocarbon Solvent Vapors") of the ACGIH TLVs ® and BEIs® guidelines. The GGVmixture (ACGIH TLV) is based on Column B (McKee et al., 2005) of Table 1 ("Group Guidance Values") of Appendix H.

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# Section 8. Exposure controls/personal protection

### 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, vapor controls, 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 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: 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. chemical splash goggles. If inhalation hazards exist, a full-face respirator may be required instead.

### Skin protection

**Hand protection** 

: 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. 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.

**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.

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

: 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.

# Section 9. Physical and chemical properties

**Physical state** 

: Liquid.

Color

Transparent, colorless.

Odor

: Characteristic hydrocarbon solvent odor.

: Not available.

Boiling point/boiling range

: 133 to 143°C (271.4 to 289.4°F)

Flash point

: Closed cup: 24°C (75.2°F) [Tagliabue.]

**Evaporation rate** 

: 1 (n-butyl acetate. = 1)

Lower and upper explosive

(flammable) limits

: Not available.

Vapor pressure

: 0.67 kPa (5 mm Hg) [room temperature]

Vapor density

<1 [Air = 1]

Relative density

: 0.77

Density Ibs/gal Gravity, °API

: Estimated 6.42 lbs/gal : Estimated 52 @ 60 F

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# Section 9. Physical and chemical properties

**Solubility** : Very slightly soluble in the following materials: cold water.

**Conductivity** : <5 picosiemens/meter (unadditized)

## 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.

Incompatible materials

: Reactive or incompatible with the following materials:

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 |
|-------------------------|----------------------|---------|-------------|----------|
| Xylenes, mixed isomers  | LC50 Inhalation Gas. | Cat     | 9500 ppm    | 2 hours  |
|                         | LC50 Inhalation Gas. | Rat     | 5000 ppm    | 4 hours  |
|                         | LC50 Inhalation Gas. | Rat     | 6700 ppm    | 4 hours  |
|                         | LC50 Inhalation Gas. | Rat     | 6670 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**

**C9-C15 Alkanes**: In animal studies utilizing mineral spirits containing up to 22% aromatics indicated that the acute central nervous system effects are reversible. Based on existing animal studies, the potential for persistent effects is not clear.

Xylenes, mixed isomers: Effects from Acute Exposure:

ORAL (LD<sub>50</sub>), Acute: 4,300 mg/kg [Rat].

INHALATION (LC<sub>50</sub>), Acute: 4,550 ppm for four hours [Rat].

DERMAL (LD50), Acute: 14,100 uL/kg [Rabbit].

Overexposure to xylene may cause upper respiratory tract irritation, headache, cyanosis, blood serum changes, CNS damage and narcosis. Effects may be increased by the use of alcoholic beverages. Evidence of liver and kidney impairment were reported in workers recovering from a gross over-exposure.

**Ethylbenzene**: Effects from Acute Exposure: ORAL (LD50), Acute: 3,500 mg/kg [Rat]. DERMAL (LD50), Acute: 17,800 uL/kg [Rabbit]. INTRAPERITONEAL (LD50), Acute: 2,624 mg/kg [Rat].

Effects from Prolonged or Repeated Exposure:

Findings from a 2-year inhalation study in rodents conducted by NTP were as follows: Effects were observed only at the highest exposure level (750 ppm). At this level the incidence of renal tumors was elevated in male rats (tubular carcinomas) and female rats (tubular adenomas). Also, the incidence of tumors was elevated in male mice (alveolar and bronchiolar carcinomas) and female mice (hepatocellular carcinomas). IARC has classified ethyl benzene as "possibly carcinogenic to humans" (Group 2B).

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# Section 11. Toxicological information

Studies in laboratory animals indicate some evidence of post-implantation deaths following high levels of maternal exposure. The relevance of these findings to humans is not clear at this time. Studies in laboratory animals indicate limited evidence of renal malformations, resorptions, and developmental delays following high levels of maternal exposure. The relevance of these findings to humans is not clear at this time. Studies in laboratory animals indicate some evidence of adverse effects on the liver, kidney, thyroid, and pituitary gland.

#### **Irritation/Corrosion**

| Product/ingredient name | Result                   | Species | Score | Exposure                | Observation |
|-------------------------|--------------------------|---------|-------|-------------------------|-------------|
| Xylenes, mixed isomers  | Skin - Mild irritant     | Rat     | -     | 8 hours 60 microliters  | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 milligrams | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 100 Percent             | -           |
| Ethylbenzene            | Skin - Mild irritant     | Rabbit  | -     | 24 hours 15 milligrams  | -           |

Skin

: **C9-C15 Alkanes**: Primary dermal irritation studies (four hour exposure) in rabbits utilizing mineral spirits containing less than 2% aromatics resulted in slight to moderate skin irritation. In humans, mineral spirits have produced slight to moderate skin irritation particularly with evaporation from the skin is prevented.

**Eyes** 

: **Xylenes, mixed isomers**: When splashed in the eyes, xylene may cause burning pain, conjuctivitis, corneal vacuolation, and keratitis.

Respiratory

: **C9-C15 Alkanes**: Animal studies have demonstrated that mineral spirits produced mild respiratory tract irritation at elevated concentrations. Also, sensory respiratory tract irritation was evident by reduced breathing rates in the test animals in certain studies.

#### **Sensitization**

Skin

: **C9-C15 Alkanes**: In animal studies utilizing mineral spirits containing up to 18%, aromatics skin sensitization is not evident.

Respiratory

Mutagenicity

**Conclusion/Summary** 

: No additional information.

: **C9-C15 Alkanes**: In vivo and in vitro studies on mineral spirits containing up to 22 % aromatics indicate that these products are not genotoxic.

#### **Carcinogenicity**

**Conclusion/Summary** 

: C9-C15 Alkanes: The National Toxicology Program (NTP) conducted two-year carcinogenicity studies in rats and mice with Stoddard Solvent IIC (less than 2% aromatics). The studies indicated that there was some evidence of carcinogenic activity in male rats (adrenal medulla neoplasms and renal tubule adenoma) but no evidence of carcinogenic activity in female rats. Further, there was equivocal evidence of carcinogenic activity in female mice (hepatocellular adenoma) but no evidence of carcinogenic activity in male mice. A low carcinogenic potential is suggested by a lack of genotoxic potential identified in in vivo and in vitro genetic toxicity tests (with and without metabolic activation).

### **Classification**

| Product/ingredient name | OSHA | IARC | NTP |
|-------------------------|------|------|-----|
| Xylenes, mixed isomers  | -    | 3    | -   |
| Ethylbenzene            | -    | 2B   | -   |

### **Reproductive toxicity**

**Conclusion/Summary** 

: **C9-C15 Alkanes**: There were no treatment-related effects on pregnancy rate, mortality or gross post mortem observations in animal studies utilizing mineral spirits containing less than 2% aromatics.

#### **Teratogenicity**

**Conclusion/Summary** 

: **C9-C15 Alkanes**: There were no treatment-related effects on pregnancy rate, mortality or gross post mortem observations in animal studies utilizing mineral spirits containing less than 2% aromatics.

#### Specific target organ toxicity (single exposure)

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# Section 11. Toxicological information

| Name   | Category   | Route of exposure   | Target organs  |
|--|--|---|--|
| C9-C15 Alkanes<br>C9-C15 Cycloalkanes<br>C7-C8 Cycloalkanes<br>C7-C8 Alkanes<br>Ethylbenzene | Category 3 Category 3 Category 3 Category 3 Category 3 | Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. | Narcotic effects Narcotic effects Narcotic effects Narcotic effects Respiratory tract irritation |

#### Specific target organ toxicity (repeated exposure)

| Name         |            | Route of exposure | Target organs |
|--------------|------------|-------------------|---------------|
| Ethylbenzene | Category 2 | Inhalation        | ears          |

### **Aspiration hazard**

| Name   | Result   |
|--|--|
| C9-C15 Alkanes<br>C9-C15 Cycloalkanes<br>C7-C8 Cycloalkanes<br>C7-C8 Alkanes<br>Ethylbenzene | ASPIRATION HAZARD - Category 1 |

Information on the likely routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause

drowsiness and dizziness.

**Skin contact** : Causes skin irritation.

**Ingestion** : Can cause central nervous system (CNS) depression. May be fatal if swallowed and

enters airways. Irritating to mouth, throat and stomach.

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

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: Adverse symptoms may include the following:

nausea or vomiting

### Potential chronic health effects

General: May cause damage to organs through prolonged or repeated exposure if inhaled.

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

of exposure.

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

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# **Section 11. Toxicological information**

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

# **Section 12. Ecological information**

#### **Toxicity**

| Product/ingredient name | Result                             | Species  | Exposure |
|-------------------------|------------------------------------|--|----------|
| Xylenes, mixed isomers  | Acute EC50 90 mg/l Fresh water     | Crustaceans - Cypris subglobosa  | 48 hours |
|                         | Acute LC50 8.5 ppm Marine water    | Crustaceans - Palaemonetes pugio - Adult                                     | 48 hours |
|                         | Acute LC50 8500 μg/l Marine water  | Crustaceans - Palaemonetes 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 subcapitata                                      | 72 hours |
|                         | Acute EC50 3600 μg/l Fresh water   | Algae - Pseudokirchneriella subcapitata                                      | 96 hours |
|                         | Acute EC50 2930 µg/l Fresh water   | Daphnia - Daphnia magna - Neonate  | 48 hours |
|                         | Acute LC50 5200 μg/l Marine water  | Crustaceans - Americamysis bahia   | 48 hours |
|                         | Acute LC50 4200 μg/l Fresh water   | Fish - Oncorhynchus mykiss   | 96 hours |
|                         | Chronic NOEC 1000 μg/l Fresh water | Algae - Pseudokirchneriella subcapitata                                      | 96 hours |

**Conclusion/Summary**: Not available.

#### Persistence and degradability

Not available.

**Conclusion/Summary**: Not available.

#### **Bioaccumulative potential**

| Product/ingredient name | LogPow | BCF         | Potential |
|-------------------------|--------|-------------|-----------|
| Xylenes, mixed isomers  | 3.12   | 8.1 to 25.9 | low       |
| Ethylbenzene            | 3.6    | -           | low       |

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: 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. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not

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# Section 13. Disposal considerations

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

United States - RCRA Toxic hazardous waste "U" List

| Ingredient | CAS#      |        | Reference number |
|------------|-----------|--------|------------------|
|            | 1330-20-7 | Listed | U239             |
|            | 1330-20-7 | Listed | U239             |

# **Section 14. Transport information**

|                            | DOT Classification  | IMDG   | IATA   |
|----------------------------|---|--|--|
| UN number                  | UN 1268   | UN1268   | UN1268   |
| UN proper shipping name    | UN1268, Petroleum Distillates, n. o.s. (Naphtha Solvent, Xylene), 3, PG II RQ solution  | PETROLEUM DISTILLATES, N. O.S. (Naphtha Solvent, Xylene), 3, PG II | PETROLEUM DISTILLATES, N. O.S. (Naphtha Solvent, Xylene), 3, PG II |
| Transport hazard class(es) | 3   | 3  | 3  |
| Packing group              | II  | II   | II   |
| Environmental hazards      | No.   | No.  | No.  |
| Additional information     | Reportable quantity 1248.8 lbs / 566.97 kg [194.52 gal / 736.33 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. | -  | -  |

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.

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## Section 15. Regulatory information

#### U.S. Federal regulations

: United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 307: Toluene; Ethylbenzene; Benzene; Naphthalene Clean Water Act (CWA) 311: Toluene; Xylenes, mixed isomers; Ethylbenzene;

Benzene; Naphthalene; Xylene

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.

**SARA 311/312** 

Classification : Fire hazard

> Immediate (acute) health hazard Delayed (chronic) health hazard

#### **Composition/information on ingredients**

| Name                   | Fire<br>hazard | Sudden<br>release of<br>pressure | Reactive | Immediate<br>(acute)<br>health<br>hazard | Delayed<br>(chronic)<br>health<br>hazard |
|------------------------|----------------|----------------------------------|----------|--|--|
| C9-C15 Alkanes         | Yes.           | No.                              | No.      | Yes.                                     | No.                                      |
| C9-C15 Cycloalkanes    | Yes.           | No.                              | No.      | Yes.                                     | No.                                      |
| C7-C8 Cycloalkanes     | Yes.           | No.                              | No.      | Yes.                                     | No.                                      |
| C7-C8 Alkanes          | Yes.           | No.                              | No.      | Yes.                                     | No.                                      |
| Xylenes, mixed isomers | Yes.           | No.                              | No.      | Yes.                                     | Yes.                                     |
| Ethylbenzene           | Yes.           | No.                              | No.      | Yes.                                     | Yes.                                     |

#### **SARA 313**

|                                 | Product name | CAS number | %         |
|---------------------------------|--------------|------------|-----------|
| Form R - Reporting requirements | <b>,</b> ,   |            | <10<br><5 |
| Supplier notification           | ,            | 1 7 7 7 7  | <10<br><5 |

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: Xylenes, mixed isomers; Ethylbenzene; XYLENE

**New York** 

: The following components are listed: Ethylbenzene; Xylene (mixed)

**New Jersey** 

The following components are listed: Xylenes, mixed isomers; Ethylbenzene; XYLENES; BENZENE. DIMETHYL-

Pennsylvania

: The following components are listed: Xylenes, mixed isomers; Ethylbenzene; BENZENE, DIMETHYL-

### California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

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# Section 15. Regulatory information

| Ingredient name | %     | Cancer | Reproductive | No significant risk level                              | Maximum acceptable dosage level                    |
|-----------------|-------|--------|--------------|--|--|
| Ethylbenzene    | <5    | Yes.   | No.          | 41 μg/day (ingestion)<br>54 μg/day<br>(inhalation)     | No.  |
| Toluene         | <0.1  | No.    | Yes.         | No.  | 7000 μg/day<br>(ingestion)                         |
| Cumene          | <0.1  | Yes.   | No.          | No.  | No.  |
| Benzene         | <0.01 | Yes.   | Yes.         | 6.4 µg/day<br>(ingestion)<br>13 µg/day<br>(inhalation) | 24 μg/day (ingestion)<br>49 μg/day<br>(inhalation) |
| Naphthalene     | <0.01 | Yes.   | No.          | Yes.   | No.  |

### **International regulations**

**International lists** 

: Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted.

**Japan inventory**: All components are listed or exempted. **Korea inventory**: All components are listed or exempted.

Malaysia Inventory (EHS Register): All components are listed or exempted.

**New Zealand Inventory of Chemicals (NZIoC)**: All components are listed or exempted. **Philippines inventory (PICCS)**: All components are listed or exempted.

Taiwan inventory (CSNN): All components are listed or exempted.

Canada inventory EU Inventory WHMIS (Canada) All components are listed or exempted.All components are listed or exempted.

: Class B-2: Flammable liquid

Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

## Section 16. Other information

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



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#### <u>History</u>

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: 2/25/2015.

Key to abbreviations

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

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## Section 16. Other information

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

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