

# SAFETY DATA SHEET

Issuing Date 16-Mar-2015

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Revision Number 3



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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** Toro 4 Cycle Oil

### Other means of identification

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Engine (motor) oil for Auto or Boat

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

**Supplier Name** The Toro Company

**Supplier Address** 8111 Lyndale Avenue South  
Bloomington  
MN  
8515  
US

**Supplier Phone Number** Phone:952-887-8515  
Contact Phone951-785-3482

**Supplier Email** eden.allen@toro.com

### Emergency telephone number

## 2. HAZARDS IDENTIFICATION

### Classification


This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

|                 |             |
|-----------------|-------------|
| Carcinogenicity | Category 1A |
|-----------------|-------------|

### GHS Label elements, including precautionary statements

### Emergency Overview



|   |                  |                       |                  |
|---|------------------|-----------------------|------------------|
| <b>Signal word</b>  | <b>Danger</b>    |                       |                  |
| <b>Hazard Statements</b>  | May cause cancer |                       |                  |
|  |                  |                       |                  |
| <b>Appearance</b>   | Clear, amber     | <b>Physical state</b> | Oil Liquid       |
|   |                  |                       | <b>Odor</b> Oily |

**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

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

0 % of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

Causes mild skin irritation

**Interactions with Other Chemicals**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name   | CAS No     | Weight-% | Trade Secret |
|---|------------|----------|--------------|
| Petroleum distillates, hydrotreated heavy paraffinic                            | 64742-54-7 | 60 - 100 | *            |
| Sulfuric acid, nickel salt, reaction products with sulfurized calcium phenolate | 72162-32-4 | 1 - 5    | *            |
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts                   | 68649-42-3 | 1 - 5    | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret

## 4. FIRST AID MEASURES

### First aid measures

|                              |   |
|------------------------------|---|
| <b><u>General Advice</u></b> | Note: When using this product in high pressure equipment - Accidental high velocity dermal injection of this material requires immediate medical attention. |
| <b><u>Eye contact</u></b>    | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if symptoms occur.               |
| <b><u>Skin contact</u></b>   | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.   |
| <b><u>Inhalation</u></b>     | Remove to fresh air. Get medical attention immediately if symptoms occur.   |
| <b><u>Ingestion</u></b>      | Call a physician or poison control center immediately. Do NOT induce vomiting.  |

### **Most important symptoms and effects, both acute and delayed**

|   |                           |
|---|---------------------------|
| <b><u>Most Important Symptoms and Effects</u></b> | No information available. |
|---|---------------------------|

### **Indication of any immediate medical attention and special treatment needed**

|                                  |                        |
|----------------------------------|------------------------|
| <b><u>Notes to Physician</u></b> | Treat symptomatically. |
|----------------------------------|------------------------|

## 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **Unsuitable extinguishing media**

CAUTION: Use of water spray when fighting fire may be inefficient.

### **Specific hazards arising from the chemical**

No information available.

|                                 |                           |
|---------------------------------|---------------------------|
| <b><u>Uniform Fire Code</u></b> | Combustible Liquid: III-B |
|---------------------------------|---------------------------|

### **Hazardous Combustion Products**

Carbon oxides.

### **Explosion Data**

**Sensitivity to Mechanical Impact** No.

**Sensitivity to Static Discharge** No.

### **Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment as required.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection equipment. Take precautionary measures against static discharges.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place.

**Incompatible Products** Oxidizing agent.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure Guidelines

| Chemical name   | ACGIH TLV   | OSHA PEL   | NIOSH IDLH  |
|---|---|--|---|
| Petroleum distillates, hydrotreated heavy paraffinic<br>64742-54-7                            | TWA: 5 mg/m <sup>3</sup> , as oil mist, mineral<br>STEL: TWA: 10 mg/m <sup>3</sup> , as oil mist, mineral | TWA: 5 mg/m <sup>3</sup> , as oil mist, mineral                        |   |
| Sulfuric acid, nickel salt, reaction products with sulfurized calcium phenolate<br>72162-32-4 | -   | TWA: 1 mg/m <sup>3</sup> Ni<br>(vacated) TWA: 0.1 mg/m <sup>3</sup> Ni | IDLH: 10 mg/m <sup>3</sup> Ni<br>TWA: 0.015 mg/m <sup>3</sup> except Nickel carbonyl Ni |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

**Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** When using do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical and Chemical Properties**

|                       |                          |                       |                          |
|-----------------------|--------------------------|-----------------------|--------------------------|
| <b>Physical state</b> | Oil, Liquid              | <b>Odor</b>           | Oily                     |
| <b>Appearance</b>     | Clear, amber             | <b>Odor Threshold</b> | No information available |
| <b>Color</b>          | No information available |                       |                          |

| Property                               | Values            | Remarks    | Method |
|--|-------------------|------------|--------|
| pH                                     | UNKNOWN           | None known |        |
| Melting / freezing point               | No data available | None known |        |
| Boiling point / boiling range          | 400 °C / 752 °F   | None known |        |
| Flash Point                            | 254 C / 489 F     | None known |        |
| Evaporation Rate                       | No data available | None known |        |
| Flammability (solid, gas)              | No data available | None known |        |
| Flammability Limit in Air              |                   |            |        |
| Upper flammability limit               | No data available |            |        |
| Lower flammability limit               | No data available |            |        |
| Vapor pressure                         | No data available | None known |        |
| Vapor density                          | No data available | None known |        |
| Specific Gravity                       | 0.89              | None known |        |
| Water Solubility                       | Negligible        | None known |        |
| Solubility in other solvents           | No data available | None known |        |
| Partition coefficient: n-octanol/water | No data available | None known |        |
| Autoignition temperature               | No data available | None known |        |
| Decomposition temperature              | No data available | None known |        |
| Kinematic viscosity                    | No data available | None known |        |
| Dynamic viscosity                      | No data available | None known |        |
| Explosive properties                   | No data available |            |        |
| Oxidizing properties                   | No data available |            |        |

**Other Information**

|                        |                   |
|------------------------|-------------------|
| <b>Softening Point</b> | No data available |
| <b>VOC Content (%)</b> | No data available |
| <b>Particle Size</b>   | No data available |



**Particle Size Distribution****10. STABILITY AND REACTIVITY****Reactivity**

No data available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible materials**

Oxidizing agent.

**Hazardous Decomposition Products**

Carbon oxides.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. |

**Component Information**

| Chemical name  | Oral LD50         | Dermal LD50 | Inhalation LC50 |
|--|-------------------|-------------|-----------------|
| Petroleum distillates, hydrotreated heavy paraffinic<br>64742-54-7 | > 15 g/kg ( Rat ) | -           | -               |

**Information on toxicological effects****Symptoms** No information available.**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Sensitization** No information available.**Mutagenic Effects** No information available.**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---------------|-------|------|-----|------|
|               |       |      |     |      |

|   |    |         |       |   |
|---|----|---------|-------|---|
| Petroleum distillates, hydrotreated heavy paraffinic<br>64742-54-7                            | A2 | Group 1 |       | X |
| Sulfuric acid, nickel salt, reaction products with sulfurized calcium phenolate<br>72162-32-4 |    | Group 1 | Known | X |

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

|                                 |   |
|---------------------------------|---|
| <b>Reproductive toxicity</b>    | No information available.                 |
| <b>STOT - single exposure</b>   | No information available.                 |
| <b>STOT - repeated exposure</b> | No information available.                 |
| <b>Chronic Toxicity</b>         | Contains a known or suspected carcinogen. |
| <b>Target Organ Effects</b>     | Skin.                                     |
| <b>Aspiration Hazard</b>        | No information available.                 |

#### Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

Not applicable

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

| Chemical name   | Toxicity to Algae | Toxicity to Fish   | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|---|-------------------|--|----------------------------|----------------------------|
| Petroleum distillates, hydrotreated heavy paraffinic<br>64742-54-7          |                   | 96h LC50: > 5000 mg/L<br>(Oncorhynchus mykiss)   |                            | 48h EC50: > 1000 mg/L      |
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts<br>68649-42-3 |                   | 96h LC50: 1.0 - 5.0 mg/L<br>(Pimephales promelas) 96h<br>LC50: 10.0 - 35.0 mg/L<br>(Pimephales promelas) |                            | 48h EC50: 1 - 1.5 mg/L     |

### Persistence and Degradability

No information available.

### Bioaccumulation

No information available

### Other adverse effects

No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging**

Dispose of contents/containers in accordance with local regulations.

**California Hazardous Waste Codes 221**

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical name   | California Hazardous Waste |
|---|----------------------------|
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts<br>68649-42-3 | Toxic                      |

**14. TRANSPORT INFORMATION**

**DOT**  
 Proper Shipping Name  
 Hazard Class

NOT REGULATED  
 NON REGULATED  
 N/A

**TDG** Not regulated

**MEX** Not regulated

**ICAO** Not regulated

**IATA**  
 Proper Shipping Name  
 Hazard Class

Not regulated  
 NON REGULATED  
 N/A

**IMDG/IMO**  
 Hazard Class

Not regulated  
 N/A

**RID** Not regulated

**ADR** Not regulated

**ADN** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

TSCA Complies  
 DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List





**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name  | CAS No     | Weight-% | SARA 313 - Threshold Values % |
|--|------------|----------|-------------------------------|
| Sulfuric acid, nickel salt, reaction products with sulfurized calcium phenolate - 72162-32-4 | 72162-32-4 | 1 - 5    | 0.1                           |
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts - 68649-42-3                   | 68649-42-3 | 1 - 5    | 1.0                           |

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | No  |
| Chronic Health Hazard             | Yes |
| Fire Hazard                       | No  |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical name   | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|-----------------------------|------------------------|---------------------------|----------------------------|
| Sulfuric acid, nickel salt, reaction products with sulfurized calcium phenolate<br>72162-32-4 |                             | X                      |                           |                            |
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts<br>68649-42-3                   |                             | X                      |                           |                            |

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals.

| Chemical name  | California Proposition 65 |
|--|---------------------------|
| Sulfuric acid, nickel salt, reaction products with sulfurized calcium phenolate - 72162-32-4 | Carcinogen                |

**U.S. State Right-to-Know Regulations**

| Chemical name   | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|---|------------|---------------|--------------|--------------|----------|
| phosphorodithioic acid O,O-dialkyl(C=1-14) esters zinc salts<br>68649-42-3                    |            |               | X            | X            |          |
| Sulfuric acid, nickel salt, reaction products with sulfurized calcium phenolate<br>72162-32-4 |            |               | X            | X            | X        |

**International Regulations**



**Mexico**  
**National occupational exposure limits**

| Component   | Carcinogen Status | Exposure Limits   |
|---|-------------------|---|
| Sulfuric acid, nickel salt, reaction products with sulfurized calcium phenolate<br>72162-32-4 ( 1 - 5 ) |                   | Mexico: TWA 0.1 mg/m <sup>3</sup><br>Mexico: STEL 0.3 mg/m <sup>3</sup> |

*Mexico - Occupational Exposure Limits - Carcinogens*

**Canada**  
**WHMIS Hazard Class**  
 Not determined

**16. OTHER INFORMATION**

|             |                          |                       |                          |  |
|-------------|--------------------------|-----------------------|--------------------------|--|
| <b>NFPA</b> | <b>Health Hazards 1</b>  | <b>Flammability 1</b> | <b>Instability 0</b>     | <b>Physical and Chemical Hazards -<br/>Personal Protection<br/>X</b> |
| <b>HMIS</b> | <b>Health Hazards 1*</b> | <b>Flammability 1</b> | <b>Physical Hazard 0</b> |  |

**Chronic Hazard Star Legend** \* = Chronic Health Hazard

**Prepared By** Product Stewardship  
 23 British American Blvd.  
 Latham, NY 12110  
 1-800-572-6501

**Issuing Date** 16-Mar-2015  
**Revision Date** 16-Mar-2015  
**Revision Note** No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**



# SAFETY DATA SHEET

Issuing Date 16-Mar-2015

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Revision Number 1



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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** Fuel Treatment

### Other means of identification

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Fuel additive

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

**Supplier Name** The Toro Company

**Supplier Address** 8111 Lyndale Avenue South  
Bloomington  
MN  
8515  
US

**Supplier Phone Number** Phone:952-887-8515  
Contact Phone951-785-3482

**Supplier Email** eden.allen@toro.com

### Emergency telephone number

## 2. HAZARDS IDENTIFICATION

### Classification


This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

|                        |             |
|------------------------|-------------|
| Germ cell mutagenicity | Category 1B |
| Aspiration toxicity    | Category 1  |
| Flammable liquids      | Category 4  |

### GHS Label elements, including precautionary statements



**Emergency Overview**

|   |               |                       |              |
|---|---------------|-----------------------|--------------|
| <b>Signal word</b>  | <b>Danger</b> |                       |              |
| <b>Hazard Statements</b>  |               |                       |              |
| May cause genetic defects   |               |                       |              |
| May be fatal if swallowed and enters airways                                      |               |                       |              |
| Combustible liquid  |               |                       |              |
|  |               |                       |              |
| <b>Appearance</b>   | Liquid        | <b>Physical state</b> | Liquid       |
|   |               | <b>Odor</b>           | Gasoline oil |

**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  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

**Ingestion**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 Do NOT induce vomiting

**Fire**

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

0 % of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

Causes mild skin irritation  
 Toxic to aquatic life  
 PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION

**Interactions with Other Chemicals**

Use of alcoholic beverages may enhance toxic effects.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name                             | CAS No     | Weight-% | Trade Secret |
|---|------------|----------|--------------|
| Petroleum naphtha, light aromatic         | 64742-95-6 | 60 - 100 | *            |
| Petroleum distillates, hydrotreated light | 64742-47-8 | 60 - 100 | *            |
| Xylene                                    | 1330-20-7  | 3 - 7    | *            |
| 1,2,3-Trimethylbenzene                    | 526-73-8   | 3 - 7    | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

**First aid measures****General Advice**

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

**Eye contact**

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

**Skin contact**

Wash with soap and water.

**Inhalation**

Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Seek immediate medical attention/advice. Delayed pulmonary edema may occur.

**Ingestion**

Aspiration hazard if swallowed - can enter lungs and cause damage. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

**Self-protection of the first aider**

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Wear personal protective clothing (see section 8). Remove all sources of ignition.

**Most important symptoms and effects, both acute and delayed****Most Important Symptoms and Effects**

Difficulty in breathing. Coughing and/ or wheezing. Dizziness.

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Treat symptomatically.



## 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam.

### **Unsuitable extinguishing media**

CAUTION: Use of water spray when fighting fire may be inefficient.

### **Specific hazards arising from the chemical**

Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray.

**Uniform Fire Code**                      Combustible Liquid: III-A

### **Hazardous Combustion Products**

Carbon oxides.

### **Explosion Data**

**Sensitivity to Mechanical Impact**      No.

**Sensitivity to Static Discharge**        Yes.

### **Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures**

**Personal precautions**                      Avoid contact with eyes. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material.

**Other Information**                              Refer to protective measures listed in Sections 7 and 8.

### **Environmental precautions**

**Environmental precautions**                Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.

### **Methods and material for containment and cleaning up**

**Methods for containment**                    Prevent further leakage or spillage if safe to do so. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up**                    Dam up. Take precautionary measures against static discharges. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Do not breathe dust/fume/gas/mist/vapors/spray.

### Conditions for safe storage, including any incompatibilities

**Storage** Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Keep out of the reach of children. Store away from other materials. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

**Incompatible Products** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure Guidelines

| Chemical name   | ACGIH TLV   | OSHA PEL   | NIOSH IDLH                                |
|---|---|--|---|
| Petroleum distillates, hydrotreated light<br>64742-47-8 | TWA: 5 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup><br>(as oil mist) | TWA: 5 mg/m <sup>3</sup><br>(as oil mist)  |   |
| Xylene<br>1330-20-7                                     | STEL = 150 ppm<br>TWA: 100 ppm  | TWA: 100 ppm<br>TWA: 435 mg/m <sup>3</sup><br>(vacated) TWA: 100 ppm<br>(vacated) TWA: 435 mg/m <sup>3</sup><br>(vacated) STEL: 150 ppm<br>(vacated) STEL: 655 mg/m <sup>3</sup> |   |
| 1,2,3-Trimethylbenzene<br>526-73-8                      | -   | -  | TWA: 25 ppm<br>TWA: 125 mg/m <sup>3</sup> |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or

smoke when using this product. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

|                       |                          |                       |                          |
|-----------------------|--------------------------|-----------------------|--------------------------|
| <b>Physical state</b> | Liquid                   | <b>Odor</b>           | Gasoline oil             |
| <b>Appearance</b>     | Liquid                   | <b>Odor Threshold</b> | No information available |
| <b>Color</b>          | No information available |                       |                          |

| <u>Property</u>                        | <u>Values</u>     | <u>Remarks</u> | <u>Method</u> |
|--|-------------------|----------------|---------------|
| pH                                     | UNKNOWN           | None known     |               |
| Melting / freezing point               | No data available | None known     |               |
| Boiling point / boiling range          | No data available | None known     |               |
| Flash Point                            | 79 C / 174 F      | None known     |               |
| Evaporation Rate                       | No data available | None known     |               |
| Flammability (solid, gas)              | No data available | None known     |               |
| Flammability Limit in Air              |                   |                |               |
| Upper flammability limit               | No data available |                |               |
| Lower flammability limit               | No data available |                |               |
| Vapor pressure                         | No data available | None known     |               |
| Vapor density                          | No data available | None known     |               |
| Specific Gravity                       | .8146             | None known     |               |
| Water Solubility                       | Liquid            | None known     |               |
| Solubility in other solvents           | No data available | None known     |               |
| Partition coefficient: n-octanol/water | No data available | None known     |               |
| Autoignition temperature               | No data available | None known     |               |
| Decomposition temperature              | No data available | None known     |               |
| Kinematic viscosity                    | No data available | None known     |               |
| Dynamic viscosity                      | No data available | None known     |               |
| Explosive properties                   | No data available |                |               |
| Oxidizing properties                   | No data available |                |               |

### Other Information

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Softening Point</b>            | No data available |
| <b>VOC Content (%)</b>            | No data available |
| <b>Particle Size</b>              | No data available |
| <b>Particle Size Distribution</b> |                   |



## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

Heat, flames and sparks.

### Incompatible materials

None known based on information supplied.

### Hazardous Decomposition Products

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

##### **Inhalation**

Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract.

##### **Eye contact**

Specific test data for the substance or mixture is not available. May cause irritation.

##### **Skin contact**

Repeated exposure may cause skin dryness or cracking.

##### **Ingestion**

Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways.

#### Component Information

| Chemical name  | Oral LD50            | Dermal LD50  | Inhalation LC50                                    |
|--|----------------------|--|--|
| Petroleum naphtha, light aromatic<br>64742-95-6            | = 8400 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit )                            | = 3400 ppm ( Rat ) 4 h                             |
| Petroleum distillates, hydrotreated<br>light<br>64742-47-8 | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit )                            | > 5.2 mg/L ( Rat ) 4 h                             |
| Xylene<br>1330-20-7  | = 3500 mg/kg ( Rat ) | > 4350 mg/kg ( Rabbit ) > 1700<br>mg/kg ( Rabbit ) | = 29.08 mg/L ( Rat ) 4 h = 5000<br>ppm ( Rat ) 4 h |

### Information on toxicological effects

#### **Symptoms**

Difficulty in breathing. Coughing and/ or wheezing. Asthma-like and/ or skin allergy-like symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure



|                          |  |
|--------------------------|--|
| <b>Sensitization</b>     | No information available.  |
| <b>Mutagenic Effects</b> | There is no data for this product. Contains a known or suspected mutagen.                |
| <b>Carcinogenicity</b>   | The table below indicates whether each agency has listed any ingredient as a carcinogen. |

| Chemical name       | ACGIH | IARC    | NTP | OSHA |
|---------------------|-------|---------|-----|------|
| Xylene<br>1330-20-7 |       | Group 3 |     |      |

*IARC (International Agency for Research on Cancer)  
Group 3 - Not Classifiable as to Carcinogenicity in Humans*

|                                 |  |
|---------------------------------|--|
| <b>Reproductive toxicity</b>    | No information available.  |
| <b>STOT - single exposure</b>   | No information available.  |
| <b>STOT - repeated exposure</b> | No information available.  |
| <b>Chronic Toxicity</b>         | Contains a known or suspected mutagen. Possible risk of irreversible effects. Aspiration may cause pulmonary edema and pneumonitis. May cause adverse effects on the bone marrow and blood-forming system. |
| <b>Target Organ Effects</b>     | May affect the genetic material in germ cells (sperm and eggs). Respiratory system. Blood. Central Nervous System (CNS). Eyes. Skin. Kidney. Liver.  |
| <b>Aspiration Hazard</b>        | No information available.  |

#### Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

##### **ATEmix (oral)**

86,000.00 mg/kg

##### **ATEmix (dermal)**

22,000.00 mg/kg (ATE)

##### **ATEmix (inhalation-gas)**

90,000.00 ppm (4 hr)

##### **ATEmix (inhalation-dust/mist)**

30.00 mg/l

##### **ATEmix (inhalation-vapor)**

220.00 ATEmix

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Toxic to aquatic organisms.

| Chemical name   | Toxicity to Algae | Toxicity to Fish  | Toxicity to Microorganisms | Daphnia Magna (Water Flea)                    |
|---|-------------------|---|----------------------------|---|
| Petroleum naphtha, light aromatic<br>64742-95-6         |                   | 96h LC50: = 9.22 mg/L<br>(Oncorhynchus mykiss)  |                            | 48h EC50: = 6.14 mg/L                         |
| Petroleum distillates, hydrotreated light<br>64742-47-8 |                   | 96h LC50: = 2.2 mg/L<br>(Lepomis macrochirus) 96h<br>LC50: = 2.4 mg/L<br>(Oncorhynchus mykiss) 96h<br>LC50: = 45 mg/L<br>(Pimephales promelas)  |                            | 96h LC50: = 4720 mg/L                         |
| Xylene<br>1330-20-7                                     |                   | 96h LC50: = 13.4 mg/L<br>(Pimephales promelas) 96h<br>LC50: = 19 mg/L (Lepomis<br>macrochirus) 96h LC50:<br>13.1 - 16.5 mg/L (Lepomis<br>macrochirus) 96h LC50:<br>13.5 - 17.3 mg/L<br>(Oncorhynchus mykiss) 96h<br>LC50: 2.661 - 4.093 mg/L<br>(Oncorhynchus mykiss) 96h<br>LC50: = 780 mg/L (Cyprinus<br>carpio) 96h LC50: > 780<br>mg/L (Cyprinus carpio) 96h<br>LC50: 30.26 - 40.75 mg/L<br>(Poecilia reticulata) 96h<br>LC50: 23.53 - 29.97 mg/L<br>(Pimephales promelas) 96h<br>LC50: 7.711 - 9.591 mg/L<br>(Lepomis macrochirus) | EC50 = 0.0084 mg/L 24 h    | 48h EC50: = 3.82 mg/L 48h<br>LC50: = 0.6 mg/L |

### Persistence and Degradability

No information available.

### Bioaccumulation

| Chemical name       | Log Pow |
|---------------------|---------|
| Xylene<br>1330-20-7 | 3.15    |

### Other adverse effects

No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging**

Dispose of contents/containers in accordance with local regulations.

**California Hazardous Waste Codes 331**

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical name       | California Hazardous Waste |
|---------------------|----------------------------|
| Xylene<br>1330-20-7 | Toxic<br>Ignitable         |

**14. TRANSPORT INFORMATION**

**DOT**  
 Proper Shipping Name  
 Hazard Class

NOT REGULATED  
 NON REGULATED  
 N/A

**TDG** Not regulated

**MEX** Not regulated

**ICAO** Not regulated

**IATA**  
 Proper Shipping Name  
 Hazard Class

Not regulated  
 NON REGULATED  
 N/A

**IMDG/IMO**  
 Hazard Class

Not regulated  
 N/A

**RID** Not regulated

**ADR** Not regulated

**ADN** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

TSCA Complies  
 DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List



**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name      | CAS No    | Weight-% | SARA 313 - Threshold Values % |
|--------------------|-----------|----------|-------------------------------|
| Xylene - 1330-20-7 | 1330-20-7 | 3 - 7    | 1.0                           |

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | Yes |
| Chronic Health Hazard             | Yes |
| Fire Hazard                       | Yes |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical name       | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Xylene<br>1330-20-7 | 100 lb                      |                        |                           | X                          |

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical name       | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ  |
|---------------------|--------------------------|------------------------------------|---|
| Xylene<br>1330-20-7 | 100 lb                   |                                    | RQ= 100 lb final RQ<br>RQ= 45.4 kg final RQ |

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical name                      | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|------------------------------------|------------|---------------|--------------|--------------|----------|
| Xylene<br>1330-20-7                | X          | X             | X            | X            | X        |
| 1,2,3-Trimethylbenzene<br>526-73-8 | X          | X             |              |              | X        |

**International Regulations**

**Mexico**

**National occupational exposure limits**

| Component                                    | Carcinogen Status | Exposure Limits  |
|--|-------------------|--|
| Xylene<br>1330-20-7 ( 3 - 7 )                |                   | Mexico: TWA= 100 ppm<br>Mexico: TWA= 435 mg/m <sup>3</sup><br>Mexico: STEL= 150 ppm<br>Mexico: STEL= 655 mg/m <sup>3</sup> |
| 1,2,3-Trimethylbenzene<br>526-73-8 ( 3 - 7 ) |                   | Mexico: TWA 25 ppm<br>Mexico: TWA 125 mg/m <sup>3</sup><br>Mexico: STEL 35 ppm<br>Mexico: STEL 170 mg/m <sup>3</sup>       |



Mexico - Occupational Exposure Limits - Carcinogens

Canada  
 WHMIS Hazard Class  
 Not determined

## 16. OTHER INFORMATION

|             |                           |                       |                          |   |
|-------------|---------------------------|-----------------------|--------------------------|---|
| <b>NFPA</b> | <b>Health Hazards</b> 1   | <b>Flammability</b> 2 | <b>Instability</b> 0     | <b>Physical and<br/>Chemical Hazards -<br/>Personal Protection</b><br>X |
| <b>HMIS</b> | <b>Health Hazards</b> * 2 | <b>Flammability</b> 2 | <b>Physical Hazard</b> 0 |   |

**Chronic Hazard Star Legend** \* = Chronic Health Hazard

|                      |  |
|----------------------|--|
| <b>Prepared By</b>   | Product Stewardship<br>23 British American Blvd.<br>Latham, NY 12110<br>1-800-572-6501 |
| <b>Issuing Date</b>  | 16-Mar-2015  |
| <b>Revision Date</b> | 30-Jan-2014  |
| <b>Revision Note</b> | No information available   |

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**