



# SAFETY DATA SHEET

## 1. Identification

|   |  |
|---|--|
| <b>Product identifier</b>                                     | <b>Octane Boost</b>                      |
| <b>Other means of identification</b>                          |  |
| <b>Product Code</b>   | No. 05077 (Item# 1003686)                |
| <b>Recommended use</b>  | Fuel additive                            |
| <b>Recommended restrictions</b>                               | None known.                              |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |  |
| <b>Manufactured or sold by:</b>                               |  |
| <b>Company name</b>   | CRC Industries, Inc.                     |
| <b>Address</b>  | 885 Louis Dr.<br>Warminster, PA 18974 US |
| <b>Telephone</b>  |  |
| <b>General Information</b>                                    | 215-674-4300                             |
| <b>Technical Assistance</b>                                   | 800-521-3168                             |
| <b>Customer Service</b>                                       | 800-272-4620                             |
| <b>24-Hour Emergency</b>                                      | 800-424-9300 (US)                        |
| <b>(CHEMTREC)</b>   | 703-527-3887 (International)             |
| <b>Website</b>  | www.crcindustries.com                    |

## 2. Hazard(s) identification

|                              |  |            |
|------------------------------|--|------------|
| <b>Physical hazards</b>      | Flammable liquids                                      | Category 4 |
| <b>Health hazards</b>        | Acute toxicity, oral                                   | Category 4 |
|                              | Acute toxicity, inhalation                             | Category 4 |
|                              | Skin corrosion/irritation                              | Category 2 |
|                              | Germ cell mutagenicity                                 | Category 2 |
|                              | Carcinogenicity  | Category 2 |
|                              | Specific target organ toxicity, single exposure        | Category 1 |
|                              | Aspiration hazard                                      | Category 1 |
| <b>Environmental hazards</b> | Hazardous to the aquatic environment, acute hazard     | Category 3 |
|                              | Hazardous to the aquatic environment, long-term hazard | Category 2 |
| <b>OSHA defined hazards</b>  | Not classified.  |            |
| <b>Label elements</b>        |  |            |



|                         |   |
|-------------------------|---|
| <b>Signal word</b>      | Danger  |
| <b>Hazard statement</b> | Combustible liquid. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Harmful if inhaled. Suspected of causing genetic defects. Suspected of causing cancer. Causes damage to organs. Harmful to aquatic life. Toxic to aquatic life with long lasting effects. |

## Precautionary statement

### Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from flames and hot surfaces-No smoking. Do not breathe mist or vapor. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

### Response

If swallowed: Immediately call a poison center/doctor. Rinse mouth. Do NOT induce vomiting. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed: Call a poison center/doctor. In case of fire: Do not use water jet as an extinguisher, as this will spread the fire. Collect spillage.

### Storage

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

### Disposal

Dispose of contents/container in accordance with local/regional/national regulations.

### Hazard(s) not otherwise classified (HNOC)

None known.

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## 3. Composition/information on ingredients

### Mixtures

| Chemical name                                     | Common name and synonyms | CAS number | %       |
|---|--------------------------|------------|---------|
| distillates (petroleum), hydrodesulfurized middle | Diesel Fuel No. 2        | 64742-80-9 | 80 - 90 |
| solvent naphtha (petroleum), heavy arom.          |                          | 64742-94-5 | 10 - 20 |
| methylcyclopentadienyl-manganese tricarbonyl      |                          | 12108-13-3 | 1 - 3   |
| naphthalene                                       |                          | 91-20-3    | 1 - 3   |
| cumene  |                          | 98-82-8    | < 0.2   |

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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## 4. First-aid measures

### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

### Skin contact

Remove contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

### Eye contact

Rinse with water. Get medical attention if irritation develops and persists.

### Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

### Most important symptoms/effects, acute and delayed

Aspiration may cause pulmonary edema and pneumonitis. Dizziness. Direct contact with eyes may cause temporary irritation. Skin irritation. May cause redness and pain.

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

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

### General information

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

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## 5. Fire-fighting measures

### Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

### Specific hazards arising from the chemical

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

### Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### Fire-fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Prevent product from entering drains.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

### Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from open flames, hot surfaces and sources of ignition. Do not breathe mist or vapor. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, see the product label.

### Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components   | Type    | Value                            |
|--|---------|----------------------------------|
| cumene (CAS 98-82-8)   | PEL     | 245 mg/m <sup>3</sup><br>50 ppm  |
| distillates (petroleum), hydrodesulfurized middle (CAS 64742-80-9) | PEL     | 400 mg/m <sup>3</sup>            |
| methylcyclopentadienyl-manganese tricarbonyl (CAS 12108-13-3)      | Ceiling | 100 ppm<br>5 mg/m <sup>3</sup>   |
| naphthalene (CAS 91-20-3)  | PEL     | 50 mg/m <sup>3</sup><br>10 ppm   |
| solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)          | PEL     | 400 mg/m <sup>3</sup><br>100 ppm |

#### US. ACGIH Threshold Limit Values

| Components   | Type | Value               | Form                |
|--|------|---------------------|---------------------|
| cumene (CAS 98-82-8)   | TWA  | 50 ppm              |                     |
| distillates (petroleum), hydrodesulfurized middle (CAS 64742-80-9) | TWA  | 5 mg/m <sup>3</sup> | Inhalable fraction. |

**US. ACGIH Threshold Limit Values**

| Components  | Type | Value     | Form         |
|---|------|-----------|--------------|
| methylcyclopentadienyl-manganese tricarbonyl (CAS 12108-13-3) | TWA  | 0.2 mg/m3 |              |
| naphthalene (CAS 91-20-3)                                     | TWA  | 10 ppm    |              |
| solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)     | TWA  | 200 mg/m3 | Non-aerosol. |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components   | Type | Value               | Form  |
|--|------|---------------------|-------|
| cumene (CAS 98-82-8)   | TWA  | 245 mg/m3<br>50 ppm |       |
| distillates (petroleum), hydrodesulfurized middle (CAS 64742-80-9) | TWA  | 400 mg/m3           |       |
| methylcyclopentadienyl-manganese tricarbonyl (CAS 12108-13-3)      | STEL | 100 ppm<br>3 mg/m3  | Fume. |
| naphthalene (CAS 91-20-3)  | TWA  | 0.2 mg/m3           |       |
|  | STEL | 75 mg/m3<br>15 ppm  |       |
|  | TWA  | 50 mg/m3<br>10 ppm  |       |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines****US - California OELs: Skin designation**

|   |                                   |
|---|-----------------------------------|
| cumene (CAS 98-82-8)  | Can be absorbed through the skin. |
| methylcyclopentadienyl-manganese tricarbonyl (CAS 12108-13-3) | Can be absorbed through the skin. |
| naphthalene (CAS 91-20-3)                                     | Can be absorbed through the skin. |

**US - Minnesota Haz Subs: Skin designation applies**

|   |                           |
|---|---------------------------|
| cumene (CAS 98-82-8)  | Skin designation applies. |
| methylcyclopentadienyl-manganese tricarbonyl (CAS 12108-13-3) | Skin designation applies. |

**US - Tennessee OELs: Skin designation**

|   |                                   |
|---|-----------------------------------|
| cumene (CAS 98-82-8)  | Can be absorbed through the skin. |
| methylcyclopentadienyl-manganese tricarbonyl (CAS 12108-13-3) | Can be absorbed through the skin. |

**US ACGIH Threshold Limit Values: Skin designation**

|   |                                   |
|---|-----------------------------------|
| methylcyclopentadienyl-manganese tricarbonyl (CAS 12108-13-3) | Can be absorbed through the skin. |
| naphthalene (CAS 91-20-3)                                     | Can be absorbed through the skin. |
| solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)     | Can be absorbed through the skin. |

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation**

|   |                                   |
|---|-----------------------------------|
| cumene (CAS 98-82-8)  | Can be absorbed through the skin. |
| methylcyclopentadienyl-manganese tricarbonyl (CAS 12108-13-3) | Can be absorbed through the skin. |

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

|                      |                                   |
|----------------------|-----------------------------------|
| cumene (CAS 98-82-8) | Can be absorbed through the skin. |
|----------------------|-----------------------------------|

**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash fountain and emergency showers are recommended.

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

**Eye/face protection** Wear safety glasses with side shields (or goggles).

|                                       |  |
|---------------------------------------|--|
| <b>Skin protection</b>                |  |
| <b>Hand protection</b>                | Wear protective gloves such as: Neoprene. Nitrile. Polyvinyl chloride (PVC).   |
| <b>Other</b>                          | Wear appropriate chemical resistant clothing.  |
| <b>Respiratory protection</b>         | If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels. |
| <b>Thermal hazards</b>                | Wear appropriate thermal protective clothing, when necessary.  |
| <b>General hygiene considerations</b> | Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.       |

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## 9. Physical and chemical properties

### Appearance

|   |                             |
|---|-----------------------------|
| <b>Physical state</b>                               | Liquid.                     |
| <b>Form</b>   | Liquid.                     |
| <b>Color</b>  | Amber.                      |
| <b>Odor</b>   | Petroleum.                  |
| <b>Odor threshold</b>                               | Not available.              |
| <b>pH</b>   | Not available.              |
| <b>Melting point/freezing point</b>                 | 36 °F (2.2 °C) estimated    |
| <b>Initial boiling point and boiling range</b>      | 320 °F (160 °C) estimated   |
| <b>Flash point</b>                                  | 158 °F (70 °C) Setflash     |
| <b>Evaporation rate</b>                             | Slow.                       |
| <b>Flammability (solid, gas)</b>                    | Not available.              |
| <b>Upper/lower flammability or explosive limits</b> |                             |
| <b>Flammability limit - lower (%)</b>               | 0.6 % estimated             |
| <b>Flammability limit - upper (%)</b>               | 7.5 % estimated             |
| <b>Vapor pressure</b>                               | 0.6 hPa estimated           |
| <b>Vapor density</b>                                | > 1 (air = 1)               |
| <b>Relative density</b>                             | 0.84                        |
| <b>Solubility (water)</b>                           | Negligible.                 |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.              |
| <b>Auto-ignition temperature</b>                    | 494 °F (256.7 °C) estimated |
| <b>Decomposition temperature</b>                    | Not available.              |
| <b>Viscosity (kinematic)</b>                        | Not available.              |
| <b>Percent volatile</b>                             | 100 % estimated             |

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## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.  |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.  |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.  |
| <b>Conditions to avoid</b>                | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| <b>Incompatible materials</b>             | Strong oxidizing agents.   |
| <b>Hazardous decomposition products</b>   | Carbon oxides. Aldehydes.  |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Harmful if inhaled. May cause damage to organs by inhalation.  |
| <b>Skin contact</b> | Causes skin irritation.  |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation.   |
| <b>Ingestion</b>    | Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. |

**Symptoms related to the physical, chemical and toxicological characteristics**      Aspiration may cause pulmonary edema and pneumonitis. Dizziness. Skin irritation. May cause redness and pain.

### Information on toxicological effects

**Acute toxicity**      May be fatal if swallowed and enters airways. Harmful if inhaled.

| <b>Components</b> | <b>Species</b> | <b>Test Results</b> |
|-------------------|----------------|---------------------|
|-------------------|----------------|---------------------|

cumene (CAS 98-82-8)

**Acute**

**Oral**

|      |     |            |
|------|-----|------------|
| LD50 | Rat | 1400 mg/kg |
|------|-----|------------|

distillates (petroleum), hydrodesulfurized middle (CAS 64742-80-9)

**Acute**

**Dermal**

|      |        |              |
|------|--------|--------------|
| LD50 | Rabbit | > 2000 mg/kg |
|------|--------|--------------|

**Inhalation**

*Vapor*

|      |     |                       |
|------|-----|-----------------------|
| LC50 | Rat | 10 - 20 mg/l, 4 hours |
|------|-----|-----------------------|

methylcyclopentadienyl-manganese tricarbonyl (CAS 12108-13-3)

**Acute**

**Inhalation**

*Vapor*

|      |     |                     |
|------|-----|---------------------|
| LC50 | Rat | 0.076 mg/l, 4 Hours |
|------|-----|---------------------|

naphthalene (CAS 91-20-3)

**Acute**

**Oral**

|      |     |           |
|------|-----|-----------|
| LD50 | Rat | 490 mg/kg |
|------|-----|-----------|

solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)

**Acute**

**Dermal**

|      |        |              |
|------|--------|--------------|
| LD50 | Rabbit | > 2000 mg/kg |
|------|--------|--------------|

\* Estimates for product may be based on additional component data not shown.

|  |   |
|--|---|
| <b>Skin corrosion/irritation</b>         | Causes skin irritation.                                   |
| <b>Serious eye damage/eye irritation</b> | Direct contact with eyes may cause temporary irritation.  |
| <b>Respiratory sensitization</b>         | Not a respiratory sensitizer.                             |
| <b>Skin sensitization</b>                | This product is not expected to cause skin sensitization. |
| <b>Germ cell mutagenicity</b>            | Suspected of causing genetic defects.                     |
| <b>Carcinogenicity</b>                   | Suspected of causing cancer.                              |

### IARC Monographs. Overall Evaluation of Carcinogenicity

|                           |   |
|---------------------------|---|
| cumene (CAS 98-82-8)      | 2B Possibly carcinogenic to humans.                 |
| naphthalene (CAS 91-20-3) | 2B Possibly carcinogenic to humans.                 |
| xylene (CAS 1330-20-7)    | 3 Not classifiable as to carcinogenicity to humans. |

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

## US. National Toxicology Program (NTP) Report on Carcinogens

cumene (CAS 98-82-8)

Reasonably Anticipated to be a Human Carcinogen.

naphthalene (CAS 91-20-3)

Reasonably Anticipated to be a Human Carcinogen.

### Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

### Specific target organ toxicity - single exposure

Causes damage to organs.

### Specific target organ toxicity - repeated exposure

Not classified.

### Aspiration hazard

May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or vomiting, may cause chemical pneumonia, pulmonary injury or death.

### Chronic effects

Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

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## 12. Ecological information

### Ecotoxicity

Toxic to aquatic life with long lasting effects.

| Components   |      | Species  | Test Results                |
|--|------|--|-----------------------------|
| cumene (CAS 98-82-8)   |      |  |                             |
| <b>Aquatic</b>   |      |  |                             |
| Crustacea  | EC50 | Brine shrimp ( <i>Artemia</i> sp.)                           | 3.55 - 11.29 mg/l, 48 hours |
| Fish   | LC50 | Rainbow trout,donaldson trout ( <i>Oncorhynchus mykiss</i> ) | 2.7 mg/l, 96 hours          |
| distillates (petroleum), hydrodesulfurized middle (CAS 64742-80-9) |      |  |                             |
| <b>Aquatic</b>   |      |  |                             |
| Crustacea  | EC50 | Water flea ( <i>Daphnia pulex</i> )                          | 2.7 - 5.1 mg/l, 48 hours    |
| Fish   | LC50 | Rainbow trout,donaldson trout ( <i>Oncorhynchus mykiss</i> ) | 8.8 mg/l, 96 hours          |
|  |      |  | 8.8 mg/l, 96 hours          |
| naphthalene (CAS 91-20-3)  |      |  |                             |
| <b>Aquatic</b>   |      |  |                             |
| <i>Acute</i>   |      |  |                             |
| Crustacea  | EC50 | Water flea ( <i>Daphnia magna</i> )                          | 1.09 - 3.4 mg/l, 48 hours   |
| Fish   | LC50 | Rainbow trout,donaldson trout ( <i>Oncorhynchus mykiss</i> ) | 1.6 mg/l, 96 hours          |
| solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)          |      |  |                             |
| <b>Aquatic</b>   |      |  |                             |
| Crustacea  | EC50 | Water flea ( <i>Daphnia pulex</i> )                          | 2.7 - 5.1 mg/l, 48 hours    |
| Fish   | LC50 | Rainbow trout,donaldson trout ( <i>Oncorhynchus mykiss</i> ) | 8.8 mg/l, 96 hours          |
|  |      |  | 8.8 mg/l, 96 hours          |

\* Estimates for product may be based on additional component data not shown.

### Persistence and degradability

#### Bioaccumulative potential

##### Partition coefficient n-octanol / water (log Kow)

|  |      |
|--|------|
| cumene                                       | 3.66 |
| methylcyclopentadienyl-manganese tricarbonyl | 3.7  |
| naphthalene                                  | 3.3  |

### Mobility in soil

No data available.

### Other adverse effects

The product contains volatile organic compounds which have a photochemical ozone creation potential.

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### 13. Disposal considerations

|  |   |
|--|---|
| <b>Disposal of waste from residues / unused products</b> | This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations. |
| <b>Hazardous waste code</b>                              | Not regulated.  |
| <b>Contaminated packaging</b>                            | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.  |

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### 14. Transport information

|             |                                   |
|-------------|-----------------------------------|
| <b>DOT</b>  | Not regulated as dangerous goods. |
| <b>IATA</b> | Not regulated as dangerous goods. |
| <b>IMDG</b> | Not regulated as dangerous goods. |

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### 15. Regulatory information

|                               |  |
|-------------------------------|--|
| <b>US federal regulations</b> | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. |
|-------------------------------|--|

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**SARA 304 Emergency release notification**

methylcyclopentadienyl-manganese tricarbonyl (CAS 12108-13-3) 100 LBS

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance**

cumene (CAS 98-82-8)  
methylcyclopentadienyl-manganese tricarbonyl (CAS 12108-13-3)  
naphthalene (CAS 91-20-3)

**CERCLA Hazardous Substance List (40 CFR 302.4)**

|   |         |
|---|---------|
| cumene (CAS 98-82-8)  | Listed. |
| methylcyclopentadienyl-manganese tricarbonyl (CAS 12108-13-3) | Listed. |
| naphthalene (CAS 91-20-3)                                     | Listed. |

**CERCLA Hazardous Substances: Reportable quantity**

|                           |          |
|---------------------------|----------|
| cumene (CAS 98-82-8)      | 5000 LBS |
| naphthalene (CAS 91-20-3) | 100 LBS  |

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

methylcyclopentadienyl-manganese tricarbonyl (CAS 12108-13-3)  
naphthalene (CAS 91-20-3)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**Food and Drug Administration (FDA)** Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

|                          |                        |
|--------------------------|------------------------|
| <b>Section 311/312</b>   | Immediate Hazard - Yes |
| <b>Hazard categories</b> | Delayed Hazard - Yes   |
|                          | Fire Hazard - Yes      |
|                          | Pressure Hazard - No   |
|                          | Reactivity Hazard - No |



**SARA 302 Extremely hazardous substance** No

#### US state regulations

##### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

cumene (CAS 98-82-8)  
distillates (petroleum), hydrodesulfurized middle (CAS 64742-80-9)  
naphthalene (CAS 91-20-3)

##### US. New Jersey Worker and Community Right-to-Know Act

cumene (CAS 98-82-8)  
distillates (petroleum), hydrodesulfurized middle (CAS 64742-80-9)  
methylcyclopentadienyl-manganese tricarbonyl (CAS 12108-13-3)  
naphthalene (CAS 91-20-3)

##### US. Massachusetts RTK - Substance List

cumene (CAS 98-82-8)  
distillates (petroleum), hydrodesulfurized middle (CAS 64742-80-9)  
methylcyclopentadienyl-manganese tricarbonyl (CAS 12108-13-3)  
naphthalene (CAS 91-20-3)

##### US. Pennsylvania Worker and Community Right-to-Know Law

cumene (CAS 98-82-8)  
distillates (petroleum), hydrodesulfurized middle (CAS 64742-80-9)  
methylcyclopentadienyl-manganese tricarbonyl (CAS 12108-13-3)  
naphthalene (CAS 91-20-3)

##### US. Rhode Island RTK

cumene (CAS 98-82-8)  
distillates (petroleum), hydrodesulfurized middle (CAS 64742-80-9)  
methylcyclopentadienyl-manganese tricarbonyl (CAS 12108-13-3)  
naphthalene (CAS 91-20-3)

##### US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

##### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

|                           |                           |
|---------------------------|---------------------------|
| benzene (CAS 71-43-2)     | Listed: February 27, 1987 |
| cumene (CAS 98-82-8)      | Listed: April 6, 2010     |
| naphthalene (CAS 91-20-3) | Listed: April 19, 2002    |

##### US - California Proposition 65 - CRT: Listed date/Developmental toxin

|                       |                           |
|-----------------------|---------------------------|
| benzene (CAS 71-43-2) | Listed: December 26, 1997 |
|-----------------------|---------------------------|

##### US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

|                       |                           |
|-----------------------|---------------------------|
| benzene (CAS 71-43-2) | Listed: December 26, 1997 |
|-----------------------|---------------------------|

#### Volatile organic compounds (VOC) regulations

##### EPA

**VOC content (40 CFR 51.100(s))** 98.8 %

**Consumer products (40 CFR 59, Subpt. C)** Not regulated

##### State

**Consumer products** Not regulated

**VOC content (CA)** 98.8 %

**VOC content (OTC)** 98.8 %

#### International Inventories

| Country(s) or region | Inventory name   | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada               | Domestic Substances List (DSL)   | Yes                    |
| Canada               | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe               | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |

| Country(s) or region        | Inventory name  | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Europe                      | European List of Notified Chemical Substances (ELINCS)            | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)          | No                     |
| Korea                       | Existing Chemicals List (ECL)                                     | Yes                    |
| New Zealand                 | New Zealand Inventory   | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                     | Yes                    |

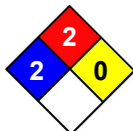
\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

|                            |   |
|----------------------------|---|
| <b>Issue date</b>          | 05-06-2014  |
| <b>Revision date</b>       | 10-19-2017  |
| <b>Prepared by</b>         | Allison Yoon  |
| <b>Version #</b>           | 02  |
| <b>Further information</b> | CRC # 636J/1002675  |
| <b>HMIS® ratings</b>       | Health: 2*<br>Flammability: 2<br>Physical hazard: 0<br>Personal protection: B |
| <b>NFPA ratings</b>        | Health: 2<br>Flammability: 2<br>Instability: 0                                |

### NFPA ratings



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### Revision Information

This document has undergone significant changes and should be reviewed in its entirety.