

# SAFETY DATA SHEET

## PETRO CHEMICAL FUEL INJECTOR AND CARBURETOR SYSTEM CLEANER

Version 3.1

Revision Date 10/01/2023

Print Date 04/27/2025

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : PETRO CHEMICAL FUEL INJECTOR AND CARBURETOR SYSTEM CLEANER

Material number : 000000000500100045

#### Manufacturer or supplier's details

Company : Zep Inc.

Address : 350 Joe Frank Harris Parkway, SE  
Emerson, GA 30137

Telephone : Compliance Services - 877-428-9937

#### Emergency telephone numbers

**For SDS Information** : Compliance Services - 877-428-9937

**For a Medical Emergency** : 877-541-2016 Toll Free - All Calls Recorded

**For a Transportation Emergency** : CHEMTREC: 800-424-9300 - All Calls Recorded.  
In the District of Columbia 202-483-7616

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

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

|            |                   |
|------------|-------------------|
| Appearance | liquid            |
| Colour     | clear, colourless |
| Odour      | slight, mint-like |

#### GHS Classification

Flammable liquids : Category 2

Skin irritation : Category 2

Carcinogenicity : Category 2

#### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H351 Suspected of causing cancer.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.

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P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

### Disposal:

P501 Dispose of contents/container in accordance with local regulation.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous components

| Chemical name           | CAS-No.   | Concentration [%] |
|-------------------------|-----------|-------------------|
| tert-butyl methyl ether | 1634-04-4 | >= 90 - < 100     |
| propan-2-ol             | 67-63-0   | >= 3 - < 5        |
| ethylbenzene            | 100-41-4  | >= 0.1 - < 1      |

The exact percentages of disclosed substances are withheld as trade secrets.

## SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.

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|   |  |
|---|--|
|   | <p>If symptoms persist, call a physician.<br/>Move to fresh air.<br/>Oxygen or artificial respiration if needed.</p>   |
| In case of skin contact                                     | <p>: If skin irritation persists, call a physician.<br/>Wash off with soap and water.<br/>If on clothes, remove clothes.<br/>Wash off immediately with plenty of water for at least 15 minutes.</p>  |
| In case of eye contact                                      | <p>: Remove contact lenses.<br/>Protect unharmed eye.<br/>Keep eye wide open while rinsing.<br/>If eye irritation persists, consult a specialist.<br/>If in eyes, rinse with water for 15 minutes.</p>   |
| If swallowed  | <p>: Keep respiratory tract clear.<br/>Never give anything by mouth to an unconscious person.<br/>If symptoms persist, call a physician.<br/>Take victim immediately to hospital.<br/>DO NOT induce vomiting unless directed to do so by a physician or poison control center.</p>   |
| Most important symptoms and effects, both acute and delayed | <p>: Effects are immediate and delayed.<br/>Symptoms may include irritation, redness, pain, and rash.<br/>Chronic effects are delayed and symptoms may not be observed during an exposure.<br/>Effects are dependent on exposure (dose, concentration, contact time).<br/>Suspected of causing cancer.<br/>Causes skin irritation.<br/>Review section 2 of SDS to see all potential hazards.</p> |
| Notes to physician  | <p>: Treat symptomatically. Symptoms may be delayed.</p>   |

## SECTION 5. FIREFIGHTING MEASURES

|                                      |  |
|--------------------------------------|--|
| Suitable extinguishing media         | <p>: Alcohol-resistant foam<br/>Carbon dioxide (CO2)<br/>Dry chemical<br/>Water spray</p>                        |
| Unsuitable extinguishing media       | <p>: High volume water jet</p>   |
| Specific hazards during firefighting | <p>: Do not allow run-off from fire fighting to enter drains or water courses.</p>                               |
| Hazardous combustion products        | <p>: Carbon dioxide (CO2)<br/>Carbon monoxide<br/>Smoke</p>  |
| Specific extinguishing methods       | <p>: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.</p> |

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- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains, inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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## SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Do not breathe vapours or spray mist.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : No smoking.  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

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Materials to avoid : Do not store near acids.  
Strong oxidizing agents

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

| Components              | CAS-No.   | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis     |
|-------------------------|-----------|----------------------------------|---|-----------|
| tert-butyl methyl ether | 1634-04-4 | TWA                              | 50 ppm  | ACGIH     |
|                         |           | PEL                              | 40 ppm<br>144 mg/m3                               | CAL PEL   |
| propan-2-ol             | 67-63-0   | TWA                              | 200 ppm   | ACGIH     |
|                         |           | STEL                             | 400 ppm   | ACGIH     |
|                         |           | TWA                              | 400 ppm<br>980 mg/m3                              | NIOSH REL |
|                         |           | ST                               | 500 ppm<br>1,225 mg/m3                            | NIOSH REL |
|                         |           | TWA                              | 400 ppm<br>980 mg/m3                              | OSHA Z-1  |
|                         |           | TWA                              | 400 ppm<br>980 mg/m3                              | OSHA P0   |
|                         |           | STEL                             | 500 ppm<br>1,225 mg/m3                            | OSHA P0   |
|                         |           | PEL                              | 400 ppm<br>980 mg/m3                              | CAL PEL   |
|                         |           | STEL                             | 500 ppm<br>1,225 mg/m3                            | CAL PEL   |
| ethylbenzene            | 100-41-4  | TWA                              | 20 ppm  | ACGIH     |
|                         |           | STEL                             | 125 ppm   | ACGIH     |
|                         |           | TWA                              | 100 ppm<br>435 mg/m3                              | NIOSH REL |
|                         |           | ST                               | 125 ppm<br>545 mg/m3                              | NIOSH REL |
|                         |           | TWA                              | 100 ppm<br>435 mg/m3                              | OSHA Z-1  |
|                         |           | TWA                              | 100 ppm<br>435 mg/m3                              | OSHA P0   |
|                         |           | STEL                             | 125 ppm<br>545 mg/m3                              | OSHA P0   |
|                         |           | PEL                              | 5 ppm<br>22 mg/m3                                 | CAL PEL   |
|                         |           | STEL                             | 30 ppm<br>130 mg/m3                               | CAL PEL   |

**Biological occupational exposure limits**

| Component   | CAS-No. | Control parameters | Biological specimen | Sampling time                   | Permissible concentration | Basis     |
|-------------|---------|--------------------|---------------------|---------------------------------|---------------------------|-----------|
| PROPAN-2-OL | 67-63-0 | Acetone            | Urine               | End of shift at end of workweek | 40 mg/l                   | ACGIH BEI |

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|              |          |  |                    |   |                     |           |
|--------------|----------|--|--------------------|---|---------------------|-----------|
| ETHYLBENZENE | 100-41-4 | Sum of mandelic acid and phenyl glyoxylic acid | Urine              | k<br>End of shift (As soon as possible after exposure ceases) | 0.15.g/g creatinine | ACGIH BEI |
| ETHYLBENZENE |          | Ethylbenzene                                   | In end-exhaled air | Not critical  |                     | ACGIH BEI |

**Engineering measures** : effective ventilation in all processing areas

### Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

Material

Remarks

: Protective gloves

: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection

: Safety glasses

Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection

: Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

: When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: liquid

Colour

: clear, colourless

Odour

: slight, mint-like

Odour Threshold

: No data available

pH

: No data available

Melting point/freezing point

: Not applicable

Boiling point

: 54.4 - 137.7 °C

Flash point

: -27.7 °C

Method: TCC

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|  |                          |
|--|--------------------------|
| Evaporation rate                       | : No data available      |
| Upper explosion limit                  | : No data available      |
| Lower explosion limit                  | : No data available      |
| Vapour pressure                        | : No data available      |
| Relative vapour density                | : No data available      |
| Density                                | : 0.56 g/cm <sup>3</sup> |
| Solubility(ies)                        |                          |
| Water solubility                       | : partly soluble         |
| Solubility in other solvents           | : not determined         |
| Partition coefficient: n-octanol/water | : No data available      |
| Auto-ignition temperature              | : not determined         |
| Thermal decomposition                  | : No data available      |
| Viscosity                              |                          |
| Viscosity, kinematic                   | : No data available      |

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## SECTION 10. STABILITY AND REACTIVITY

|                                    |   |
|------------------------------------|---|
| Reactivity                         | : Stable  |
| Chemical stability                 | : Stable under normal conditions.   |
| Possibility of hazardous reactions | : No decomposition if stored and applied as directed.<br>Vapours may form explosive mixture with air. |
| Conditions to avoid                | : Heat, flames and sparks.<br>Extremes of temperature and direct sunlight.                            |
| Incompatible materials             | : Acids<br>Strong oxidizing agents  |
| Hazardous decomposition products   | : Carbon oxides   |

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## SECTION 11. TOXICOLOGICAL INFORMATION

### Potential Health Effects

|                              |               |
|------------------------------|---------------|
| Aggravated Medical Condition | : None known. |
|------------------------------|---------------|

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Symptoms of Overexposure : Effects are immediate and delayed.  
Symptoms may include irritation, redness, pain, and rash.  
Chronic effects are delayed and symptoms may not be observed during an exposure.  
Effects are dependent on exposure (dose, concentration, contact time).  
Suspected of causing cancer.  
Causes skin irritation.  
Review section 2 of SDS to see all potential hazards.  
Treat symptomatically. Symptoms may be delayed.

### Carcinogenicity:

|              |   |           |
|--------------|---|-----------|
| <b>IARC</b>  | Group 2B: Possibly carcinogenic to humans   |           |
|              | ethylbenzene  | 100-41-4  |
| <b>ACGIH</b> | Confirmed animal carcinogen with unknown relevance to humans  |           |
|              | tert-butyl methyl ether   | 1634-04-4 |
|              | ethylbenzene  | 100-41-4  |
| <b>OSHA</b>  | No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.                |           |
| <b>NTP</b>   | No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. |           |

### Acute toxicity

#### Product:

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg  
Method: Calculation method

#### Components:

##### propan-2-ol:

Acute oral toxicity : LD50 Oral Rat: 4,396 mg/kg  
Method: Calculation method

### Skin corrosion/irritation

#### Product:

Remarks: Irritating to skin.

### Serious eye damage/eye irritation

No data available

### Respiratory or skin sensitisation

No data available

### Germ cell mutagenicity

No data available

### Carcinogenicity

No data available



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### Reproductive toxicity

No data available

### STOT - single exposure

No data available

### STOT - repeated exposure

No data available

### Aspiration toxicity

No data available

### Further information

#### Product:

Remarks: No data available

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

#### Product:

Partition coefficient: n-octanol/water : Remarks: No data available

#### Components:

##### **tert-butyl methyl ether :**

Partition coefficient: n-octanol/water : log Pow: 1.77

log Pow: 0.94

##### **propan-2-ol :**

Partition coefficient: n-octanol/water : log Pow: 0.05

##### **ethylbenzene :**

Partition coefficient: n-octanol/water : Pow: 3.6

### Mobility in soil

No data available

### Other adverse effects

No data available

#### Product:

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|                                   |   |
|-----------------------------------|---|
| Regulation                        | 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  |
| Remarks                           | This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). |
| Additional ecological information | : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.                 |

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

|                        |  |
|------------------------|--|
| Waste from residues    | : The product should not be allowed to enter drains, water courses or the soil.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Dispose of in accordance with local regulations. |
| Contaminated packaging | : Empty remaining contents.<br>Dispose of as unused product.<br>Do not re-use empty containers.<br>Do not burn, or use a cutting torch on, the empty drum.   |

## SECTION 14. TRANSPORT INFORMATION

Transportation Regulation: 49 CFR (USA):  
UN1993, Flammable liquids, n.o.s., (TERT-BUTYL METHYL ETHER), 3, II - Limited quantity

Transportation Regulation: IMDG (Vessel):  
UN1993, FLAMMABLE LIQUID, N.O.S., (TERT-BUTYL METHYL ETHER), 3, II - Limited quantity

Transportation Regulation: IATA (Cargo Air):  
UN1993, Flammable liquid, n.o.s., (TERT-BUTYL METHYL ETHER), 3, II - Limited quantity

Transportation Regulation: IATA (Passenger Air):  
UN1993, Flammable liquid, n.o.s., (TERT-BUTYL METHYL ETHER), 3, II - Limited quantity

Transportation Regulation: TDG (Canada):  
UN1993, FLAMMABLE LIQUID, N.O.S., (TERT-BUTYL METHYL ETHER), 3, II - Limited quantity

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.

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### SECTION 15. REGULATORY INFORMATION

**TSCA list** : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

#### EPCRA - Emergency Planning and Community Right-to-Know Act

##### CERCLA Reportable Quantity

| Components              | CAS-No.   | Component RQ<br>(lbs) | Calculated product RQ<br>(lbs) |
|-------------------------|-----------|-----------------------|--------------------------------|
| tert-butyl methyl ether | 1634-04-4 | 1000                  | 1091                           |

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Skin corrosion or irritation  
Carcinogenicity

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

|                         |           |           |
|-------------------------|-----------|-----------|
| tert-butyl methyl ether | 1634-04-4 | 91.6251 % |
| ethylbenzene            | 100-41-4  | 0.1688 %  |

##### California Prop. 65



WARNING: This product can expose you to chemicals including ethylbenzene, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### The components of this product are reported in the following inventories:

**DSL** All components of this product are on the Canadian DSL  
**TSCA** On TSCA Inventory

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

#### Inventory Acronym and Validity Area Legend:

TSCA (USA), DSL (Canada), NDSL (Canada)

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### SECTION 16. OTHER INFORMATION

#### Further information

#### NFPA:

|                 |   |
|-----------------|---|
| HEALTH          | 2 |
| FLAMMABILITY    | 3 |
| INSTABILITY     | 0 |
| SPECIAL HAZARD. |   |

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme

#### HMIS III:

|                 |    |
|-----------------|----|
| HEALTH          | 2* |
| FLAMMABILITY    | 3  |
| PHYSICAL HAZARD | 0  |

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

### OSHA - GHS Label Information:

Hazard pictograms



Signal word

Hazard statements

Precautionary statements

: **Danger:**  
: Highly flammable liquid and vapour. Causes skin irritation. Suspected of causing cancer.  
: **Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces,

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sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed or concerned: Get medical advice/ attention. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:** Store in a well-ventilated place. Keep cool.

**Disposal:** Dispose of contents/container in accordance with local regulation.

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