

# SAFETY DATA SHEET

## ZEP 45 DUAL FORCE MULTI-PURPOSE LUBRICANT & PENETRANT\_1GL\_4CT

Version 2.0

Revision Date 02/08/2024

Print Date 04/27/2025

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : ZEP 45 DUAL FORCE MULTI-PURPOSE LUBRICANT & PENETRANT\_1GL\_4CT

Material number : 000000000000374524

#### Manufacturer or supplier's details

Company : Zep Inc.

Address : 11627 - 178 Street  
Edmonton, Alberta T5S 1N6  
Canada

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.

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

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

|            |                |
|------------|----------------|
| Appearance | liquid         |
| Colour     | amber          |
| Odour      | characteristic |

#### GHS Classification

Aspiration hazard : Category 1

#### GHS label elements

Hazard pictograms :



Health hazard

Signal word : Danger

Hazard statements : H304 May be fatal if swallowed and enters airways.

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Precautionary statements : **Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P331 Do NOT induce vomiting.  
**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 [%] |
|--|------------|-------------------|
| Distillates (petroleum), hydrotreated light            | 64742-47-8 | >= 60 - < 80      |
| Distillates (petroleum), hydrotreated heavy naphthenic | 64742-52-5 | >= 10 - < 30      |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate    | 88917-22-0 | >= 5 - < 10       |

### SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.  
Remove contaminated clothing and shoes.  
Wash contaminated clothing before reuse.  
Wash off with plenty of water.

In case of eye contact : Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
Immediately flush eye(s) with plenty of water.  
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
DO NOT induce vomiting unless directed to do so by a physician or poison control center.  
Take victim immediately to hospital.

Most important symptoms : Symptoms may include shortness of breath, dry cough, and

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and effects, both acute and delayed

irritation of the nose, eyes, lips, mouth, and throat.  
Aspiration may cause pulmonary oedema and pneumonitis.  
May be fatal if swallowed and enters airways.  
Review section 2 of SDS to see all potential hazards.

Notes to physician

: Treat symptomatically. Symptoms may be delayed.

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### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media

: Dry chemical  
Water  
Carbon dioxide (CO<sub>2</sub>)  
Foam

Unsuitable extinguishing media

: High volume water jet

Specific hazards during firefighting

: Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products

: Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Smoke  
Sulphur oxides

Specific extinguishing methods

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

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.

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.

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

: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

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### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Do not breathe vapours or spray mist.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : 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.
- Materials to avoid : Oxidizing agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

| Components   | CAS-No.    | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis     |
|--|------------|----------------------------------|--|-----------|
| Distillates (petroleum), hydrotreated light            | 64742-47-8 | TWA                              | 200 mg/m3<br>(As total hydrocarbon vapour)     | CA BC OEL |
|  |            | TWA                              | 200 mg/m3<br>(total hydrocarbon vapor)         | CA AB OEL |
| Distillates (petroleum), hydrotreated heavy naphthenic | 64742-52-5 | TWA (Mist)                       | 1 mg/m3  | CA BC OEL |
|  |            | TWA<br>(Inhalable fraction)      | 5 mg/m3  | ACGIH     |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate    | 88917-22-0 | TWA                              | 100 ppm<br>776 mg/m3                           | CA ON OEL |
|  |            | STEL                             | 150 ppm<br>1,164 mg/m3                         | CA ON OEL |

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

#### Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection  
Material : Protective gloves

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|                          |  |
|--------------------------|--|
| Remarks                  | : The suitability for a specific workplace should be discussed with the producers of the protective gloves.  |
| Eye protection           | : Safety glasses<br>Access to clean water to rinse eyes must be available, options include: eye wash stations or showers, or eye wash bottles with pure water. |
| Skin and body protection | : Impervious clothing<br>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.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday.   |

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |                                   |
|--|-----------------------------------|
| Appearance                             | : liquid                          |
| Colour                                 | : amber                           |
| Odour                                  | : characteristic                  |
| Odour Threshold                        | : No data available               |
| pH                                     | : Not applicable                  |
| Melting point/freezing point           | : No data available               |
| Boiling point                          | : > 204.44 °C                     |
| Flash point                            | : > 93.3 °C<br>Method: closed cup |
| Evaporation rate                       | : < 1<br>n-Butyl Acetate = 1.0    |
| Upper explosion limit                  | : No data available               |
| Lower explosion limit                  | : No data available               |
| Vapour pressure                        | : No data available               |
| Relative vapour density                | : No data available               |
| Density                                | : 0.87 g/cm <sup>3</sup>          |
| Bulk density                           | : No data available               |
| Solubility(ies)                        |                                   |
| Water solubility                       | : insoluble                       |
| Solubility in other solvents           | : insoluble                       |
| Partition coefficient: n-octanol/water | : No data available               |

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|                           |                     |
|---------------------------|---------------------|
| Auto-ignition temperature | : No data available |
| Thermal decomposition     | : No data available |
| Viscosity                 |                     |
| Viscosity, dynamic        | : No data available |
| 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 | : Vapours may form explosive mixture with air.<br>No decomposition if stored and applied as directed. |
| Conditions to avoid                | : No data available   |
| Incompatible materials             | : Oxidizing agents  |
| Hazardous decomposition products   | : Carbon oxides   |

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Potential Health Effects

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

|                          |  |
|--------------------------|--|
| Symptoms of Overexposure | : Symptoms may include shortness of breath, dry cough, and irritation of the nose, eyes, lips, mouth, and throat.<br>Aspiration may cause pulmonary oedema and pneumonitis.<br>May be fatal if swallowed and enters airways.<br>Review section 2 of SDS to see all potential hazards.<br>Treat symptomatically. Symptoms may be delayed. |
|--------------------------|--|

#### Carcinogenicity:

##### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

##### ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

#### Acute toxicity

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### **Product:**

Acute dermal toxicity : Acute toxicity estimate : 3,611 mg/kg  
Method: Calculation method

### **Components:**

#### **Distillates (petroleum), hydrotreated light:**

Acute oral toxicity : LD50 Rat: > 5,000 mg/kg

Acute inhalation toxicity : LC50 Rat: > 4.6 mg/l  
Exposure time: 6 h

Acute dermal toxicity : LD50 Rat: > 2,000 mg/kg

#### **Distillates (petroleum), hydrotreated heavy naphthenic:**

Acute oral toxicity : LD50 Rat: > 5,000 mg/kg

Acute inhalation toxicity : LC50 Rat: > 5 mg/l  
Exposure time: 4 h

Acute dermal toxicity : LD50 Rabbit: > 5,000 mg/kg

### **Skin corrosion/irritation**

#### **Product:**

Remarks: May cause skin irritation in susceptible persons.

### **Serious eye damage/eye irritation**

#### **Product:**

Remarks: Contact with eyes may cause irritation.

### **Respiratory or skin sensitisation**

No data available

### **Germ cell mutagenicity**

No data available

### **Carcinogenicity**

No data available

### **Reproductive toxicity**

No data available

### **STOT - single exposure**

No data available

### **STOT - repeated exposure**

No data available

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### Aspiration toxicity

No data available

### Further information

#### Product:

Remarks: Solvents may degrease the skin.

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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

### Mobility in soil

No data available

### Other adverse effects

No data available

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.



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### SECTION 14. TRANSPORT INFORMATION

Transportation Regulation (TDG) / Règlement Pour Le Transport (TMD): (Canada):  
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation / Règlement Pour Le Transport: IMDG (Vessel):  
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (HYDROTREATED LIGHT PETROLEUM DISTILLATES, Dipropylene glycol methyl ether acetate), 9, III

Transportation Regulation / Règlement Pour Le Transport: IATA (Cargo Air):  
UN3082, Environmentally hazardous substance, liquid, n.o.s., (HYDROTREATED LIGHT PETROLEUM DISTILLATES, Dipropylene glycol methyl ether acetate), 9, III

Transportation Regulation / Règlement Pour Le Transport: IATA (Passenger Air):  
UN3082, Environmentally hazardous substance, liquid, n.o.s., (HYDROTREATED LIGHT PETROLEUM DISTILLATES, Dipropylene glycol methyl ether acetate), 9, III

Transportation Regulation / Règlement Pour Le Transport: 49 CFR (USA):  
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

The product as delivered to the customer conforms to packaging requirements for shipment by road under Transport Dangerous Goods (TDG) Canada 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.

### SECTION 15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR.

**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

WHMIS - GHS Label Information:

Hazard pictograms

:



Health hazard

Signal word

: **Danger:**

Hazard statements

: May be fatal if swallowed and enters airways.

Precautionary statements

:

**Response:** IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

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

|                |            |
|----------------|------------|
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