

**A00329 ZEP 45 LUBRIDRY 678501 16N11**

Version 5.0

Revision Date 05/01/2018

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**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Material name : A00329 ZEP 45 LUBRIDRY 678501 16N11

Material number : 00000000000678501

**Manufacturer or supplier's details**

Company : Zep Inc.

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

Telephone : 404-352-1680

**Emergency telephone numbers**
**For SDS Information** : Compliance Services 1-877-428-9937

**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**

Recommended use : Lubricant

**SECTION 2. HAZARDS IDENTIFICATION**
**Emergency Overview**

|            |                                    |
|------------|------------------------------------|
| Appearance | Aerosol containing a liquefied gas |
| Colour     | colourless                         |
| Odour      | hydrocarbon-like                   |

**GHS Classification**

Flammable aerosols : Category 1  
 Gases under pressure : Liquefied gas  
 Skin irritation : Category 2  
 Eye irritation : Category 2A  
 Carcinogenicity : Category 2  
 Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.  
 H280 Contains gas under pressure; may explode if heated.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.

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H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

Precautionary statements

: **Prevention:**

P201 Obtain special instructions before use.

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.

P211 Do not spray on an open flame or other ignition source.

P251 Pressurized container: Do not pierce or burn, even after use.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

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

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

**Storage:**

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

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 [%] |
|--|------------|-------------------|
| acetone  | 67-64-1    | >= 30 - < 50      |
| Distillates (petroleum), light distillate hydrotreating process, low-boiling | 68410-97-9 | >= 20 - < 30      |
| butane   | 106-97-8   | >= 20 - < 30      |
| propane  | 74-98-6    | >= 5 - < 10       |

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

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**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.  
Get medical attention.
- If inhaled : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.  
Wash off immediately with plenty of water for at least 15 minutes.  
Wash contaminated clothing before re-use.  
Remove contaminated clothing and shoes.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
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.
- Most important symptoms and effects, both acute and delayed : Effects are immediate and delayed.  
Symptoms may include irritation, redness, pain, and rash.  
Effects are dependent on exposure (dose, concentration, contact time).  
Symptoms may include central nervous system depression, resulting in headache, nausea and/or dizziness.  
Causes skin irritation.  
Causes serious eye irritation.  
Review section 2 of SDS to see all potential hazards.
- Notes to physician : Treat symptomatically. Symptoms may be delayed.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during : Do not allow run-off from fire fighting to enter drains or water

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|   |   |
|---|---|
| firefighting                                  | courses.  |
| Hazardous combustion products                 | : Carbon dioxide (CO <sub>2</sub> )<br>Carbon monoxide<br>Smoke<br>Silicon 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.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.<br>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.<br>Ensure adequate ventilation.<br>Remove all sources of ignition.<br>Evacuate personnel to safe areas.<br>Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. |
| Environmental precautions   | : Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>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).<br>Sweep up or vacuum up spillage and collect in suitable container for disposal.  |

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**SECTION 7. HANDLING AND STORAGE**

|                             |  |
|-----------------------------|--|
| Advice on safe handling     | : Do not breathe vapours/dust.<br>Avoid exposure - obtain special instructions before use.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Take precautionary measures against static discharges.<br>Provide sufficient air exchange and/or exhaust in work rooms.<br>Always replace cap after use.<br>Dispose of rinse water in accordance with local and national regulations. |
| Conditions for safe storage | : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force   |

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or throw into fire even after use. Do not spray on flames or red-hot objects.

No smoking.

Observe label precautions.

Electrical installations / working materials must comply with the technological safety standards.

Keep in a dry, cool and well-ventilated place.

**BEWARE:** Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.

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.

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 /<br>Permissible concentration | Basis     |
|--|------------|----------------------------------|---|-----------|
| acetone  | 67-64-1    | TWA                              | 250 ppm   | ACGIH     |
|  |            | STEL                             | 500 ppm   | ACGIH     |
|  |            | TWA                              | 250 ppm<br>590 mg/m <sup>3</sup>                  | NIOSH REL |
|  |            | TWA                              | 1,000 ppm<br>2,400 mg/m <sup>3</sup>              | OSHA Z-1  |
|  |            | TWA                              | 750 ppm<br>1,800 mg/m <sup>3</sup>                | OSHA P0   |
|  |            | STEL                             | 1,000 ppm<br>2,400 mg/m <sup>3</sup>              | OSHA P0   |
|  |            | STEL                             | 750 ppm<br>1,780 mg/m <sup>3</sup>                | CAL PEL   |
|  |            | C                                | 3,000 ppm   | CAL PEL   |
| Distillates (petroleum), light<br>distillate hydrotreating process,<br>low-boiling | 68410-97-9 | PEL                              | 500 ppm<br>1,200 mg/m <sup>3</sup>                | CAL PEL   |
|  |            | TWA                              | 500 ppm<br>2,000 mg/m <sup>3</sup>                | OSHA Z-1  |
| butane   | 106-97-8   | TWA                              | 400 ppm<br>1,600 mg/m <sup>3</sup>                | OSHA P0   |
|  |            | TWA                              | 800 ppm<br>1,900 mg/m <sup>3</sup>                | NIOSH REL |
|  |            | TWA                              | 800 ppm<br>1,900 mg/m <sup>3</sup>                | OSHA P0   |

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|         |         |     |                                      |           |
|---------|---------|-----|--------------------------------------|-----------|
|         |         | PEL | 800 ppm<br>1,900 mg/m <sup>3</sup>   | CAL PEL   |
| propane | 74-98-6 | TWA | 1,000 ppm                            | ACGIH     |
|         |         | TWA | 1,000 ppm<br>1,800 mg/m <sup>3</sup> | NIOSH REL |
|         |         | TWA | 1,000 ppm<br>1,800 mg/m <sup>3</sup> | OSHA Z-1  |
|         |         | TWA | 1,000 ppm<br>1,800 mg/m <sup>3</sup> | OSHA P0   |
|         |         | PEL | 1,000 ppm<br>1,800 mg/m <sup>3</sup> | CAL PEL   |

**Biological occupational exposure limits**

| Component   | CAS-No. | Control parameters | Biological specimen | Sampling time  | Permissible concentration | Basis     |
|-------------|---------|--------------------|---------------------|--|---------------------------|-----------|
| 2-PROPANONE | 67-64-1 | Acetone            | Urine               | End of shift (As soon as possible after exposure ceases) | 25 mg/l                   | 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 : Protective gloves

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

Eye protection

: Access to clean water to rinse eyes must be available, options include: eye wash stations or showers, or eye wash bottles with pure water.

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing problems.

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**

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|  |                                      |
|--|--------------------------------------|
| Appearance                             | : Aerosol containing a liquefied gas |
| Colour                                 | : colourless                         |
| Odour                                  | : hydrocarbon-like                   |
| Odour Threshold                        | : No data available                  |
| pH                                     | : Not applicable                     |
| Melting point/freezing point           | : No data available                  |
| Boiling point                          | : No data available                  |
| Flash point                            | :<br>No data available               |
| Evaporation rate                       | : > 1                                |
| Flammability (solid, gas)              | : Extremely flammable aerosol.       |
| Upper explosion limit                  | : No data available                  |
| Lower explosion limit                  | : No data available                  |
| Vapour pressure                        | : No data available                  |
| Relative vapour density                | : No data available                  |
| Density                                | : No data available                  |
| 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                  |
| Heat of combustion                     | : 39.79 kJ/g                         |

**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                | : Heat, flames and sparks.<br>Extremes of temperature and direct sunlight.                            |

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Incompatible materials : Oxidizing agents

Hazardous decomposition products : Carbon oxides

**SECTION 11. TOXICOLOGICAL INFORMATION****Potential Health Effects**

Aggravated Medical Condition : None known.

Symptoms of Overexposure : Effects are immediate and delayed. Symptoms may include irritation, redness, pain, and rash. Effects are dependent on exposure (dose, concentration, contact time). Symptoms may include central nervous system depression, resulting in headache, nausea and/or dizziness.

**Carcinogenicity:****IARC**

Group 2B: Possibly carcinogenic to humans

Distillates (petroleum), light distillate hydrotreating process, low-boiling 68410-97-9

**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.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

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:****acetone:**

Acute oral toxicity : LD50 Rat: 5,800 mg/kg

Acute inhalation toxicity : LC50 Rat: 132 mg/l  
Exposure time: 3 h

LC50 Rat: 50.1 mg/l

Acute dermal toxicity : LD50 Guinea pig: &gt; 7,426 mg/kg



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LD50 Rabbit: > 7,426 mg/kg

**Skin corrosion/irritation**

**Product:**

Remarks: Irritating to skin.

**Serious eye damage/eye irritation**

**Product:**

Remarks: Severe eye 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

**Aspiration toxicity**

No data available

**Further information**

**Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

No data available

**Persistence and degradability**

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No data available

### Bioaccumulative potential

#### Product:

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

#### Components:

##### butane :

Partition coefficient: n-octanol/water : Pow: 2.89

### Mobility in soil

No data available

### Other adverse effects

No data available

#### Product:

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 : Not applicable

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Dispose of in accordance with local regulations. 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.

Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

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## SECTION 14. TRANSPORT INFORMATION

|   |
|---|
| Transportation Regulation: 49 CFR (USA):<br>ORM-D, CONSUMER COMMODITY |
|---|

|   |
|---|
| Transportation Regulation: IMDG (Vessel): |
|---|

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UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity

Transportation Regulation: IATA (Cargo Air):  
UN1950, Aerosols, flammable, 2.1, - Limited quantity

Transportation Regulation: IATA (Passenger Air):  
UN1950, Aerosols, flammable, 2.1, - Limited quantity

Transportation Regulation: TDG (Canada):  
UN1950, AEROSOLS, FLAMMABLE, 2.1, - 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.

### 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 (lbs) | Calculated product RQ (lbs) |
|------------|---------|--------------------|-----------------------------|
| acetone    | 67-64-1 | 5000               | *                           |

\*: Calculated RQ exceeds reasonably attainable upper limit.

##### 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)  
Gases under pressure  
Skin corrosion or irritation  
Serious eye damage or eye irritation  
Carcinogenicity  
Specific target organ toxicity (single or repeated exposure)

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

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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**California Prop. 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

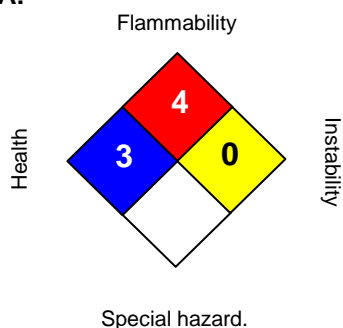
**The components of this product are reported in the following inventories:**

**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)

**SECTION 16. OTHER INFORMATION****Further information****NFPA:****HMIS III:**

|                        |           |
|------------------------|-----------|
| <b>HEALTH</b>          | <b>3*</b> |
| <b>FLAMMABILITY</b>    | <b>4</b>  |
| <b>PHYSICAL HAZARD</b> | <b>1</b>  |

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:**  
 : Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. 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, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after

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use. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:** IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/ attention. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

**Storage:** Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-ventilated place. Keep cool.

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

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