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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name	:	ZEP 45 DUAL FORCE MULTI-PURPOSE LUBRICANT & PENETRANT
Material number	:	000000000374524
Manufacturer or supplier's o	leta	ils
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	:	CHEMTREC: 800-424-9300 - All Calls Recorded.
Emergency		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	amber	
Odour	characteristic	

GHS	Classification	
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.
Precautionary statements	<ul> <li>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.</li> </ul>

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#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

Chemical name	CAS-No.	Concentration [%]
Distillates (petroleum), hydrotreated light	64742-47-8	>= 50 - < 70
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	>= 10 - < 20
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	88917-22-0	>= 5 - < 10

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. 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 and effects, both acute and delayed	:	Symptoms may include shortness of breath, dry cough, and 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 (CO2) Foam	
Unsuitable extinguishing media	: High volume water jet	
Specific hazards during firefighting	: Do not allow run-off from fire fighting to enter drains or wate courses.	÷r
Hazardous combustion products	: Carbon dioxide (CO2) Carbon monoxide Smoke Sulphur oxides	
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Further information	<ul> <li>Collect contaminated fire extinguishing water separately. The must not be discharged into drains.</li> <li>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.</li> </ul>	
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary.	

### 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.

### 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

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	regulations.	
Conditions for safe storage	<ul> <li>Keep container tightly closed in a c place.</li> <li>Containers which are opened must kept upright to prevent leakage.</li> <li>Observe label precautions.</li> <li>Electrical installations / working ma the technological safety standards.</li> </ul>	t be carefully resealed and attributed to the terminate the terminate termin
Materials to avoid	: Oxidizing agents	

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hydrotreated light	64742-47-8	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
		PEL (particulate)	5 mg/m3	CAL PEL
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m3	ACGIH

Engineering measures	effective ventilation in all processing areas	
Personal protective equipme		
Respiratory protection	In case of insufficient ventilation, wear suitable respirated equipment.	atory
Hand protection Material Remarks	Protective gloves The suitability for a specific workplace should be disc with the producers of the protective gloves.	ussed
Eye protection	Safety glasses Access to clean water to rinse eyes must be available include: eye wash stations or showers, or eye wash b with pure water.	
Skin and body protection	Impervious clothing	

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	Choose body protection according concentration of the dangerous su	
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	: amber
Odour	: characteristic
Odour Threshold	: No data available
рН	: Not applicable
Melting point/freezing point	: No data available
Boiling point	: > 204.44 °C
Flash point	: > 93.3 °C Method: closed cup
Evaporation rate	: <1 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/cm3
Bulk density	: No data available
Solubility(ies)	
Water solubility	: insoluble
Solubility in other solvents	: insoluble
Partition coefficient: n- octanol/water	: No data available
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. No decomposition if stored and applied as directed.
Conditions to avoid	: No data available
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: Carbon oxides

### SECTION 11. TOXICOLOGICAL INFORMATION

### **Potential Health Effects**

(	Aggravated Medical Condition Symptoms of Overexposure	<ul> <li>None known.</li> <li>Symptoms may include shortness of breath, dry cough, and 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. Treat symptomatically. Symptoms may be delayed.</li> </ul>
C	Carcinogenicity:	
I	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.
	OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
I	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	e toxicity	
<u>F</u>	Product:	
ŀ	Acute dermal toxicity	: Acute toxicity estimate : 3,689 mg/kg

# Method: Calculation method

### Components:

Distillates (petroleum), hydrotreated light:

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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), hvd	rotreated heavy naphthenic:	
	: 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:		
Demonstration Marca activation in the		

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

#### 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- :	Remarks: No data available
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	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects.

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	<ul> <li>The product should not be allowed to enter drains, water courses or the soil.</li> <li>Do not contaminate ponds, waterways or ditches with chemical or used container.</li> <li>Dispose of in accordance with local regulations.</li> </ul>
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: 49 CFR (USA): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

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

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

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

Transportation Regulation: TDG (Canada): NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

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)
pentyl acetate	628-63-7	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 : Aspiration hazard

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SARA 302	: No chemicals in this material are su requirements of SARA Title III, Sec	
SARA 313	: This material does not contain any known CAS numbers that exceed the reporting levels established by SAR	ne threshold (De Minimis)
California Prop. 65		
	This product does not contain any California to cause cancer, birth d 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** 

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### **Further information**

#### NFPA:



0 = not significant, 1 =Slight,

2 = Moderate, 3 = High

4 = Extreme

#### HMIS III:



0 = not significant, 1 =Slight,

- 2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

### **OSHA - GHS Label Information:**

Hazard pictograms

Signal word Hazard statements Precautionary statements



Health hazard Danger: May be fatal if sw allowed and enters airways.

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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