

# ZEP ORANGEL 4-3.78L

Version 1.0

Revision Date 01/17/2017

Print Date 10/04/2017

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : ZEP ORANGEL 4-3.78L

Material number : 981724C

## Manufacturer or supplier's details

| Company   | : | Zep Inc.  |
|-----------|---|---|
| Address   | : | 11627 - 178 Street<br>Edmonton, Alberta T5S 1N6<br>Canada |
| Telephone | : | 404-352-1680  |

| Emergency telephone nu            | mbe | rs   |
|-----------------------------------|-----|--|
| For SDS Information               | :   | Compliance Services 1-877-428-9937           |
| For a Medical Emergency           | :   | 877-541-2016 Toll Free - All Calls Recorded  |
| For a Transportation<br>Emergency | :   | CHEMTREC: 800-424-9300 - All Calls Recorded. |

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

Recommended use : Degreaser

#### SECTION 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

| Appearance | viscous, gel  |
|------------|---------------|
| Colour     | amber, yellow |
| Odour      | like fruit    |

#### **GHS Classification**

| Flammable liquids<br>Skin irritation<br>Serious eye damage<br>Skin sensitisation | <ul> <li>Category 3</li> <li>Category 2</li> <li>Category 1</li> <li>Sub-category 1B</li> </ul>   |
|--|---|
| GHS label elements   |   |
| Hazard pictograms  |   |
| Signal word  | : Danger  |
| Hazard statements  | <ul> <li>H226 Flammable liquid and vapour.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> </ul> |



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| Precautionary statements | <ul> <li><b>Prevention:</b></li> <li>P210 Keep away from heat, hot s and other ignition sources. No sm P233 Keep container tightly close P240 Ground and bond container P241 Use explosion-proof electric equipment.</li> <li>P242 Use non-sparking tools.</li> <li>P243 Take action to prevent stat P261 Avoid breathing dust/ fume.</li> <li>P264 Wash skin thoroughly after P272 Contaminated work clothing the workplace.</li> <li>P280 Wear protective gloves/ ever <b>Response:</b></li> <li>P303 + P361 + P353 IF ON SKIN immediately all contaminated clo P305 + P351 + P338 + P310 IF I water for several minutes. Removand easy to do. Continue rinsing. CENTER/doctor.</li> <li>P333 + P313 If skin irritation or ra advice/ attention.</li> <li>P362 + P364 Take off contaminare reuse.</li> <li>P370 + P378 In case of fire: Use alcohol-resistant foam to extingui <b>Storage:</b></li> <li>P403 + P235 Store in a well-ventit <b>Disposal:</b></li> <li>Dispose of contents/container in regulation.</li> </ul> | noking.<br>ed.<br>r and receiving equipment.<br>cal/ ventilating/ lighting/<br>ic discharges.<br>/ gas/ mist/ vapours/ spray.<br>handling.<br>g should not be allowed out of<br>e protection/ face protection.<br>N (or hair): Take off<br>thing. Rinse skin with water.<br>N EYES: Rinse cautiously wit<br>e contact lenses, if present<br>Immediately call a POISON<br>ash occurs: Get medical<br>ted clothing and wash it before<br>dry sand, dry chemical or<br>ish.<br>ilated place. Keep cool. |

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

Substance / Mixture : Mixture

#### Hazardous components

| Chemical name                 | CAS-No.    | Concentration [%] |
|-------------------------------|------------|-------------------|
| (R)-p-mentha-1,8-diene        | 5989-27-5  | >= 70 - < 90      |
| Alcohols, C9-11, ethoxylated  | 68439-46-3 | >= 1 - < 5        |
| Alcohols, C12-16, ethoxylated | 68551-12-2 | >= 1 - < 5        |
| propylene carbonate           | 108-32-7   | >= 1 - < 5        |

#### SECTION 4. FIRST AID MEASURES

| General advice | <ul> <li>Move out of dangerous area.</li> <li>Consult a physician.</li> <li>Show this safety data sheet to the doctor in attendance.</li> <li>Do not leave the victim unattended.</li> </ul> |
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| If inhaled     | : If unconscious place in recovery position and seek medical   |



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|   | advice.<br>If symptoms persist, call a physician.  |  |
| In case of skin contact   | : If skin irritation persists, call a physiciar<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.  | ۱.                                     |
| In case of eye contact  | <ul> <li>Small amounts splashed into eyes can<br/>tissue damage and blindness.</li> <li>In the case of contact with eyes, rinse i<br/>of water and seek medical advice.</li> <li>Continue rinsing eyes during transport<br/>Remove contact lenses.</li> <li>Protect unharmed eye.</li> <li>Keep eye wide open while rinsing.</li> <li>If eye irritation persists, consult a speci</li> </ul> | mmediately with plenty<br>to hospital. |
| If swallowed  | <ul> <li>Keep respiratory tract clear.</li> <li>Never give anything by mouth to an unopoint to point induce vomiting unless directed physician or poison control center.</li> <li>If symptoms persist, call a physician.</li> <li>Take victim immediately to hospital.</li> </ul>  |  |
| Most important symptoms<br>and effects, both acute and<br>delayed | <ul> <li>Effects are immediate and delayed.<br/>Symptoms may include blistering, irritat<br/>Effects are dependent on exposure (do<br/>contact time).<br/>Causes skin irritation.<br/>Causes serious eye damage.<br/>Review section 2 of SDS to see all pote</li> </ul>  | se, concentration,                     |
| Notes to physician  | : Treat symptomatically. Symptoms may  | <i>i</i> be delayed.                   |

#### SECTION 5. FIREFIGHTING MEASURES

| Suitable extinguishing media         | : | Alcohol-resistant foam<br>Carbon dioxide (CO2)<br>Dry chemical  |
|--------------------------------------|---|---|
| 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 (CO2)<br>Carbon monoxide<br>Smoke<br>Nitrogen oxides (NOx)                               |
| 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.      |



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|  | Fire residues and contaminated fire<br>be disposed of in accordance with<br>For safety reasons in case of fire, of<br>separately in closed containments.<br>Use a water spray to cool fully close  | local regulations.<br>cans should be stored |
| Special protective equipment<br>for firefighters | : Wear self-contained breathing approximation approximatio | aratus for firefighting if                  |

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions,<br>protective equipment and<br>emergency procedures | <ul> <li>Use personal protective equipment.<br/>Remove all sources of ignition.</li> <li>Evacuate personnel to safe areas.</li> <li>Beware of vapours accumulating to form explosive<br/>concentrations. Vapours can accumulate in low areas.</li> </ul> |   |
|---|--|---|
| Environmental precautions   | <ul> <li>Prevent product from entering drains.</li> <li>Prevent further leakage or spillage if safe to do so.</li> <li>If the product contaminates rivers and lakes or drains inform respective authorities.</li> </ul>                                  | 1 |
| Methods and materials for containment and cleaning up                     | : Contain spillage, and then collect with non-combustible<br>absorbent material, (e.g. sand, earth, diatomaceous earth,<br>vermiculite) and place in container for disposal according to<br>local / national regulations (see section 13).               | 1 |

#### SECTION 7. HANDLING AND STORAGE

| Advice on safe handling     | <ul> <li>Avoid formation of aerosol.</li> <li>Do not breathe vapours/dust.</li> <li>Avoid exposure - obtain special instructions before use.</li> <li>Avoid contact with skin and eyes.</li> <li>For personal protection see section 8.</li> <li>Smoking, eating and drinking should be prohibited in the application area.</li> <li>Take precautionary measures against static discharges.</li> <li>Provide sufficient air exchange and/or exhaust in work rooms.</li> <li>Open drum carefully as content may be under pressure.</li> <li>To avoid spills during handling keep bottle on a metal tray.</li> <li>Dispose of rinse water in accordance with local and national regulations.</li> <li>Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.</li> </ul> |
|-----------------------------|---|
| Conditions for safe storage | <ul> <li>No smoking.<br/>Keep container tightly closed in a dry and well-ventilated<br/>place.</li> <li>Containers which are opened must be carefully resealed and<br/>kept upright to prevent leakage.</li> <li>Observe label precautions.</li> <li>Electrical installations / working materials must comply with</li> </ul>   |



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|                    | the technological safety standards.     |                       |
| Materials to avoid | : No materials to be especially mention | ned.                  |
|                    |   |                       |

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Components with workplace control parameters |   |  |  |  |  |
|--|---|--|--|--|--|
| Contains no substances with o                | Contains no substances with occupational exposure limit values. |  |  |  |  |
| Engineering measures                         | :   | effective ventilation in all processing areas  |  |  |  |
| Personal protective equipme                  | ent   |  |  |  |  |
| Respiratory protection                       | :   | In case of insufficient ventilation, wear suitable respiratory equipment.  |  |  |  |
| Hand protection                              |   |  |  |  |  |
| Remarks                                      | :   | The suitability for a specific workplace should be discussed with the producers of the protective gloves.  |  |  |  |
| Eye protection                               | :   | Tightly fitting safety goggles<br>Wear face-shield and protective suit for abnormal processing<br>problems.<br>Ensure that eyewash stations and safety showers are close to<br>the workstation location. |  |  |  |
| Skin and body protection                     | :   | Impervious clothing<br>Choose body protection according to the amount and<br>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.   |  |  |  |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance                   | : viscous, gel         |
|------------------------------|------------------------|
| Colour                       | : amber, yellow        |
| Odour                        | : like fruit           |
| Odour Threshold              | : No data available    |
| рН                           | : No data available    |
| Melting point/freezing point | : No data available    |
| Boiling point                | : 174 °C               |
| Flash point                  | : 54 °C<br>Method: TCC |
| Evaporation rate             | : No data available    |

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| Upper explosion limit        | : No data available      |                       |
| Lower explosion limit        | : No data available      |                       |
| Vapour pressure              | : No data available      |                       |
| Relative vapour density      | : No data available      |                       |
| Density                      | : 0.844 g/cm3            |                       |
| Solubility(ies)              |                          |                       |
| Water solubility             | : emulsifiable           |                       |
| Solubility in other solvents | : not determined         |                       |
|                              |                          |                       |
| Auto-ignition temperature    | : not determined         |                       |
| Thermal decomposition        | : No data available      |                       |
| Viscosity                    |                          |                       |
| Viscosity, kinematic         | : >40 mm2/s (40 °C)      |                       |

## SECTION 10. STABILITY AND REACTIVITY

| Reactivity                            | : Stable  |
|---------------------------------------|---|
| Chemical stability                    | : Stable under normal conditions.                     |
| Possibility of hazardous<br>reactions | : No decomposition if stored and applied as directed. |
| Conditions to avoid                   | : Heat, flames and sparks.                            |
| Incompatible materials                | : Oxidizing agents                                    |
| Hazardous decomposition products      | : No hazardous decomposition products are known.      |

### SECTION 11. TOXICOLOGICAL INFORMATION

| Potential Health Effects<br>Aggravated Medical<br>Condition | : None known.  |
|---|--|
| Symptoms of Overexposure                                    | : Effects are immediate and delayed.<br>Symptoms may include blistering, irritation, burns, and pain.<br>Effects are dependent on exposure (dose, concentration,<br>contact time). |
| Carcinogenicity:<br>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.                            |

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#### Acute toxicity

| Product:  |   |   |
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| Acute oral toxicity                                   | : | Acute toxicity estimate : 4,371 mg/kg<br>Method: Calculation method |
| Components:   |   |   |
| <b>(R)-p-mentha-1,8-diene:</b><br>Acute oral toxicity | : | LD50 Oral Rat: 4,400 mg/kg  |
| Acute dermal toxicity                                 | : | LD50 Dermal Rabbit: > 5,000 mg/kg                                   |
| Alcohols, C9-11, ethoxylated:<br>Acute oral toxicity  | : | LD50 Oral Rat: 1,400 mg/kg  |

#### Skin corrosion/irritation

#### Product:

Remarks: Irritating to skin.

#### Serious eye damage/eye irritation

#### Product:

Remarks: May cause irreversible eye damage.

#### Respiratory or skin sensitisation

#### Product:

Remarks: Causes sensitisation.

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

No data available

#### **Reproductive toxicity**

No data available

(R)-p-mentha-1,8-diene: Alcohols, C9-11, ethoxylated: Alcohols, C12-16, ethoxylated: propylene carbonate:

#### STOT - single exposure

No data available

#### STOT - repeated exposure

No data available

#### Aspiration toxicity

No data available



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#### **Further information**

#### Product:

Remarks: Solvents may degrease the skin.

#### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

No data available

#### Persistence and degradability

No data available Bioaccumulative potential

#### <u>Components:</u> propylene carbonate : Partition coefficient: noctanol/water

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., Very toxic to aquatic life.

#### SECTION 13. DISPOSAL CONSIDERATIONS

| 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 | <ul> <li>Empty remaining contents.</li> <li>Dispose of as unused product.</li> <li>Do not re-use empty containers.</li> <li>Do not burn, or use a cutting torch on, the empty drum.</li> </ul>   |

#### SECTION 14. TRANSPORT INFORMATION

Transportation Regulation (TDG) / Règlement Pour Le Transport (TMD): (Canada):



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NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation / Règlement Pour Le Transport: IMDG (Vessel): UN1993, FLAMMABLE LIQUID, N.O.S., (D-LIMONENE), 3, III

Transportation Regulation / Règlement Pour Le Transport: IATA (Cargo Air): UN1993, Flammable liquid, n.o.s., (D-LIMONENE), 3, III

Transportation Regulation / Règlement Pour Le Transport: IATA (Passenger Air): UN1993, Flammable liquid, n.o.s., (D-LIMONENE), 3, 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:

TSCAOn TSCA InventoryDSLThis product contains one or more components that are listed on the<br/>Canadian NDSL. All other components are on the Canadian DSL.

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

WHMIS - GHS Label Information:



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| -       |     | - |
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| Hazard pictograms        |  |
|--------------------------|--|
| Signal w ord             | : Danger:  |
| Hazard statements        | : Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.   |
| Precautionary statements | :  |
|                          | <ul> <li>Prevention: Keep aw ay from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/ equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash skin thoroughly after handling. Contaminated w ork clothing should not be allow ed out of the w orkplace. Wear protective gloves/eye protection/face protection.</li> <li>Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with w ater. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and w ash it before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foamto extinguish.</li> <li>Storage: Store in a w ell-ventilated place. Keep cool.</li> <li>Disposal: Dispose of contents/container in accordance with local regulation.</li> </ul> |

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