

**O2 SAVOR BY TIMEMIST REFILL 6/CS**

Version 1.0

Revision Date 05/14/2015

Print Date 06/09/2015

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Material name : O2 SAVOR BY TIMEMIST REFILL 6/CS

Material number : 00000000001047428

**Manufacturer or supplier's details**

Company : Zep Inc.

Address : 1310 Seaboard Industrial Blvd., NW  
Atlanta, GA 30318

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

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

|            |              |
|------------|--------------|
| Appearance | liquid       |
| Colour     | light yellow |
| Odour      | like fruit   |

**GHS Classification**

Flammable liquids : Category 3  
Acute toxicity (Oral) : Category 4  
Skin irritation : Category 2  
Eye irritation : Category 2A  
Skin sensitisation : Category 1

**GHS Label element**

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.
Precautionary statements : **Prevention:**

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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.  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P337 + P313 If eye irritation persists: 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 for extinction.

**Storage:**

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

**Disposal:**

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

**Potential Health Effects****Carcinogenicity:**

|              |   |
|--------------|---|
| <b>IARC</b>  | 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. |
| <b>ACGIH</b> | 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.            |
| <b>OSHA</b>  | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.             |
| <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.                 |

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

Substance / Mixture : Mixture

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**Hazardous components**

| Chemical Name                    | CAS-No.    | Concentration [%] |
|----------------------------------|------------|-------------------|
| allyl 3-cyclohexylpropionate     | 2705-87-5  | >= 1 - < 5        |
| allyl heptanoate                 | 142-19-8   | >= 10 - < 20      |
| hexyl acetate                    | 142-92-7   | >= 10 - < 20      |
| (R)-p-mentha-1,8-diene           | 5989-27-5  | >= 5 - < 10       |
| allyl (3-methylbutoxy)acetate    | 67634-00-8 | >= 5 - < 10       |
| ethyl 2,3-epoxy-3-phenylbutyrate | 77-83-8    | >= 1 - < 5        |
| ethyl butyrate                   | 105-54-4   | >= 1 - < 5        |
| allyl hexanoate                  | 123-68-2   | >= 1 - < 5        |
| coumarin                         | 91-64-5    | >= 0.1 - < 1      |
| ethyl acetoacetate               | 141-97-9   | >= 25 - <= 50     |
| ethyl enantate                   | 106-30-9   | >= 5 - <= 10      |
| 1-phenylethyl acetate            | 93-92-5    | >= 1 - <= 5       |
| nonan-4-olide                    | 104-61-0   | >= 1 - <= 5       |

**SECTION 4. FIRST AID MEASURES**

- General advice : Get medical attention immediately if symptoms occur.
- If inhaled : Move to fresh air in case of accidental inhalation of vapours.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off with plenty of water.  
If skin irritation persists, call a physician.  
Wash contaminated clothing before re-use.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
If eye irritation persists, consult a specialist.
- If swallowed : If symptoms persist, call a physician or Poison Control Centre immediately.  
Rinse mouth.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
Water spray
- 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
- Specific extinguishing : Use extinguishing measures that are appropriate to local

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|   |  |
|---|--|
| methods                                       | circumstances and the surrounding environment.   |
| Further information                           | : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. |
| 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.<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 and shovel into suitable containers for disposal.  |

### SECTION 7. HANDLING AND STORAGE

|                             |   |
|-----------------------------|---|
| Advice on safe handling     | : Keep away from fire, sparks and heated surfaces.<br>Take precautionary measures against static discharges.<br>Use only with adequate ventilation.<br>Wear personal protective equipment.<br>Avoid contact with skin and eyes. |
| Conditions for safe storage | : Keep container tightly closed in a dry and well-ventilated place.<br>Keep away from sources of ignition - No smoking.   |
| Materials to avoid          | : Keep away from oxidising agents and strongly acid or alkaline materials.  |

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

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

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|                          |  |
|--------------------------|--|
| Hand protection          |  |
| Material                 | : Protective gloves  |
| Eye protection           | : Tightly fitting safety goggles   |
| 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         | : Avoid contact with skin, eyes and clothing.<br>When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and immediately after handling the product. |

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|  |                         |
|--|-------------------------|
| Appearance                             | : liquid                |
| Colour                                 | : light yellow          |
| Odour                                  | : like fruit            |
| Odour Threshold                        | : no data available     |
| pH                                     | : no data available     |
| Melting point/freezing point           | : no data available     |
| Boiling point                          | : no data available     |
| Flash point                            | : 56 °C                 |
| Evaporation rate                       | : no data available     |
| Upper explosion limit                  | : no data available     |
| Lower explosion limit                  | : no data available     |
| Vapour pressure                        | : 0.00934 hPa (20 °C)   |
| Relative vapour density                | : no data available     |
| Relative density                       | : no data available     |
| Density                                | : no data available     |
| Solubility(ies)                        |                         |
| Water solubility                       | : insoluble             |
| Solubility in other solvents           | : practically insoluble |
| Partition coefficient: n-octanol/water | : no data available     |
| Auto-ignition temperature              | : not determined        |
| Thermal decomposition                  | : no data available     |

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Viscosity

Viscosity, kinematic : no data available

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

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 : Heat, flames and sparks.

Incompatible materials : Strong acids and oxidizing agents  
Strong bases

Hazardous decomposition products : No hazardous decomposition products are known.

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**Acute oral toxicity : Acute toxicity estimate : 497.13 mg/kg  
Method: Calculation methodAcute dermal toxicity : Acute toxicity estimate : 776.47 mg/kg  
Method: Calculation method**Components:****allyl 3-cyclohexylpropionate:**

Acute oral toxicity : LD50 Oral rat: 585 mg/kg

**hexyl acetate:**

Acute oral toxicity : LD50 Oral rat: 36,230 mg/kg

Acute dermal toxicity : LD50 Dermal rabbit: &gt; 5,000 mg/kg

**(R)-p-mentha-1,8-diene:**

Acute oral toxicity : LD50 Oral rat: 4,400 mg/kg

Acute dermal toxicity : LD50 Dermal rabbit: &gt; 5,000 mg/kg

**ethyl 2,3-epoxy-3-phenylbutyrate:**

Acute oral toxicity : LD50 Oral rat: 5,470 mg/kg

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**coumarin:**

Acute oral toxicity : LD50 Oral rat: 293 mg/kg

**1-phenylethyl acetate:**

Acute oral toxicity : LD50 Oral rat: &gt; 5,000 mg/kg

Acute dermal toxicity : LD50 Dermal rabbit: &gt; 5,000 mg/kg

**Skin corrosion/irritation****Product:**

Remarks: Irritating to skin.

**Serious eye damage/eye irritation****Product:**

Remarks: Irritating to eyes.

**Respiratory or skin sensitisation****Product:**

Remarks: Causes sensitisation.

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**allyl 3-cyclohexylpropionate:****allyl heptanoate:****hexyl acetate:****(R)-p-mentha-1,8-diene:****allyl (3-methylbutoxy)acetate:****ethyl 2,3-epoxy-3-phenylbutyrate:****ethyl butyrate:****allyl hexanoate:****coumarin:****ethyl acetoacetate:****ethyl enantate:****1-phenylethyl acetate:****nonan-4-olide:****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: no data available

Remarks: Solvents may degrease the skin.

**Components:****nonan-4-olide:**

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:****hexyl acetate :**

Partition coefficient: n-octanol/water : log Pow: 2.8

**nonan-4-olide :**

Partition coefficient: n-octanol/water : 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

: An environmental hazard cannot be excluded in the



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information

event of unprofessional handling or disposal., Toxic to aquatic life., Harmful to aquatic life with long lasting effects.

**Components:****nonan-4-olide :**

Additional ecological information : no data available

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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.  
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):  
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IMDG (Vessel):  
UN1169, EXTRACTS, AROMATIC, LIQUID, 3, III

Transportation Regulation: IATA (Cargo Air):  
UN1169, Extracts, aromatic, liquid, 3, III

Transportation Regulation: IATA (Passenger Air):  
UN1169, Extracts, aromatic, liquid, 3, III

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

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**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

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This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

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

**SARA 311/312 Hazards** : Fire Hazard  
Acute Health Hazard  
Chronic Health Hazard

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

**SARA 313** : 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.

**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:**

|              |   |
|--------------|---|
| <b>TSCA</b>  | On TSCA Inventory                                     |
| <b>DSL</b>   | On the inventory, or in compliance with the inventory |
| <b>AICS</b>  | On the inventory, or in compliance with the inventory |
| <b>NZIoC</b> | Not in compliance with the inventory                  |
| <b>PICCS</b> | On the inventory, or in compliance with the inventory |
| <b>IECSC</b> | On the inventory, or in compliance with the inventory |

**Inventory Acronym and Validity Area Legend:**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECl (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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**SECTION 16. OTHER INFORMATION**

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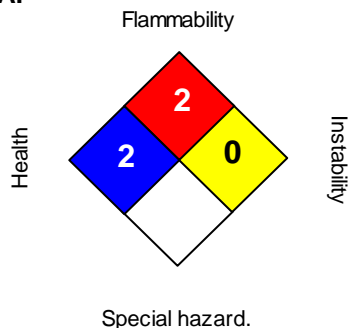
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## Further information

## NFPA:



## HMIS III:

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

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

## OSHA GHS Label Information:

Hazard pictograms



Signal word

: **Danger:**

Hazard statements

: Flammable liquid and vapour. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

: **Prevention:** Keep away from heat, hot surfaces, 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. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/ eye protection/ face protection.

**Response:** IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: 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 for extinction.

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

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

|                |            |
|----------------|------------|
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Zep Inc. markets products under well recognized and established brand names such as Zep®, Zep Commercial®, Zep Professional®, Enforcer®, National Chemical™, Selig™, Misty®, Next Dimension™, Petro®, i-Chem®, TimeMist®, TimeWick™, MicrobeMax®, Country Vet®, Konk®, Original Bike Spirits®, Blue Coral®, Black Magic®, Rain-X®, Niagara National™, FC Forward Chemicals®, Rexodan®, Mykal™, and a number of private labeled brands.