

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

Version 1.0

Revision Date 05/14/2015

Print Date 06/01/2015

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Material name : O2 ALOFT BY TIMEMIST REFILL 6/CS

Material number : 00000000001047426

**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	clear, red
Odour	characteristic

**GHS Classification**

Flammable liquids : Category 3  
 Aspiration hazard (Oral) : Category 1  
 Skin corrosion/irritation : Category 2  
 Serious eye damage : Category 2A  
 Skin sensitisation : Category 1  
 Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

**GHS Label element**

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H313 May be harmful in contact with skin.  
 H335 May cause respiratory irritation.  
 H371 May cause damage to organs.

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H304 May be fatal if swallowed and enters airways.

## Precautionary statements

: **Prevention:**

P233 Keep container tightly closed.  
 P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
 P240 Ground/bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
 P210 Keep away from open flames/hot surfaces. - No smoking.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 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/ protective clothing/ 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.  
 P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician 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.  
 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 Store in a well-ventilated place.  
 P405 Store locked up.

**Disposal:**

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

**Potential Health Effects****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.

**OSHA**

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.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen

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by NTP.

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

Substance / Mixture : Mixture

**Hazardous components**

Chemical Name	CAS-No.	Concentration [%]
bornan-2-one	76-22-2	>= 15 - < 20
2,6-dimethyloct-7-en-2-ol	18479-58-8	>= 15 - < 20
linalool	78-70-6	>= 5 - < 10
linalyl acetate	115-95-7	>= 5 - < 10
hexyl acetate	142-92-7	>= 3 - < 5
(R)-p-mentha-1,8-diene	5989-27-5	>= 1 - < 3
allyl (3-methylbutoxy)acetate	67634-00-8	>= 1 - < 3
decanal	112-31-2	>= 1 - < 3
citral	5392-40-5	>= 1 - < 3
caryophyllene	87-44-5	>= 1 - < 3
camphene	79-92-5	>= 1 - < 3
Isobutenyl methyltetrahydropyran	16409-43-1	>= 1 - < 3
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	57378-68-4	>= 1 - < 3
geranyl acetate	105-87-3	>= 0.1 - < 1
pin-2(3)-ene	80-56-8	>= 0.1 - < 1
Terpineol, acetate	8007-35-0	>= 0.1 - < 1
p-mentha-1,4(8)-diene	586-62-9	>= 0 - < 0.1
Pinene	1330-16-1	>= 5 - <= 10
cineole	470-82-6	>= 5 - <= 10
6-methylhept-5-en-2-one	110-93-0	>= 1 - <= 3
(-)-pin-2(10)-ene	18172-67-3	>= 0.1 - <= 1
p-cymene	99-87-6	>= 0 - <= 0.1
p-mentha-1,4-diene	99-85-4	>= 0 - <= 0.1
2,6-di-tert-butyl-p-cresol	128-37-0	>= 0 - <= 0.1

**SECTION 4. FIRST AID MEASURES**

- General advice : Move out of dangerous area.  
Call a physician or poison control centre immediately.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Move to fresh air in case of accidental inhalation of vapours.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.  
Remove contaminated clothing and shoes.  
If skin irritation persists, call a physician.  
Wash contaminated clothing before re-use.
- In case of eye contact : Rinse immediately with plenty of water for at least 15 minutes.  
Remove contact lenses.  
If eye irritation persists, consult a specialist.

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If swallowed : If symptoms persist, call a physician or Poison Control Centre immediately.  
Do NOT induce vomiting.

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**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray  
Carbon dioxide (CO<sub>2</sub>)  
Foam  
Dry chemical

Unsuitable extinguishing media : High volume water jet

Hazardous combustion products : No hazardous combustion products are known

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.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
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.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Avoid skin contact with leaking liquid (danger of frostbite).

Environmental precautions : Prevent product from entering drains.  
Should not be released into the environment.  
Prevent further leakage or spillage if safe to do so.  
Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up : Dam up.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Non-sparking tools should be used.  
Sweep up and shovel into suitable containers for disposal.

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**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Keep away from fire, sparks and heated surfaces.

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Use only in area provided with appropriate exhaust ventilation.  
Wear personal protective equipment.  
Avoid contact with skin and eyes.

- Conditions for safe storage : 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 : Store and keep away from bases and alkalis.  
Store and keep away from, oxidizing agents and acids.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
bornan-2-one	76-22-2	TWA	2 mg/m <sup>3</sup>	OSHA Z-1
citral	5392-40-5	TWA (Inhalable fraction and vapor)	5 ppm	ACGIH

**Personal protective equipment**

- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hand protection : Protective gloves
- Material : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Ensure that eyewash stations and safety showers are close to the workstation location.  
Tightly fitting safety goggles
- 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.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Colour	: clear, red
Odour	: characteristic
Odour Threshold	: no data available
pH	: no data available
Melting point/freezing point	: no data available
Boiling point	: no data available
Flash point	: 59 °C
Evaporation rate	: no data available
Flammability (solid, gas)	: The product is not flammable.
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: 0.800 hPa
Relative vapour density	: no data available
Relative density	: 0.8950 - 0.8990
Density	: no data available
Solubility(ies)	
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: not determined
Thermal decomposition	: no data available
Viscosity	
Viscosity, kinematic	: no data available

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: Stable
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong oxidizing agents

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Strong acids  
Strong basesHazardous decomposition :  
products**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**Acute oral toxicity : Acute toxicity estimate : 1,624 mg/kg  
Method: Calculation methodAcute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg  
Method: Calculation method**Components:****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

**decanal:**

Acute oral toxicity : LD50 Oral mouse: &gt; 41,750 mg/kg

Acute dermal toxicity : LD50 Dermal rabbit: 4,193 mg/kg

**camphene:**

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

Acute dermal toxicity : LD50 Dermal rabbit: &gt; 2,500 mg/kg

**pin-2(3)-ene:**

Acute oral toxicity : LD50 rat: 3,700 mg/kg

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

Remarks: Irritating to skin.

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

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Remarks: Irritating to eyes.

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

Remarks: May cause sensitisation of susceptible persons by skin contact.

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**bornan-2-one:**

**2,6-dimethyloct-7-en-2-ol:**

**linalool:**

**linalyl acetate:**

**hexyl acetate:**

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

**allyl (3-methylbutoxy)acetate:**

**decanal:**

**citral:**

**caryophyllene:**

**camphene:**

**Isobutenyl methyltetrahydropyran:**

**1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one:**

**geranyl acetate:**

**pin-2(3)-ene:**

**Terpineol, acetate:**

**p-mentha-1,4(8)-diene:**

**Pinene:**

**cineole:**

**6-methylhept-5-en-2-one:**

**(-)-pin-2(10)-ene:**

**p-cymene:**

**p-mentha-1,4-diene:**

**2,6-di-tert-butyl-p-cresol:**

**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-octanol/water : Remarks: no data available

**Components:****bornan-2-one :**

Partition coefficient: n-octanol/water : log Pow: 2.38

**hexyl acetate :**

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

**citral :**

Partition coefficient: n-octanol/water : Pow: 2.76

**camphene :**

Partition coefficient: n-octanol/water : log Pow: 4.22 (37 °C)

**geranyl acetate :**

Partition coefficient: n-octanol/water : Pow: 4.04

**pin-2(3)-ene :**

Partition coefficient: n-octanol/water : log Pow: 4.834

**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.

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**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

- Waste from residues : Dispose of in accordance with local regulations.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.
- 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**

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

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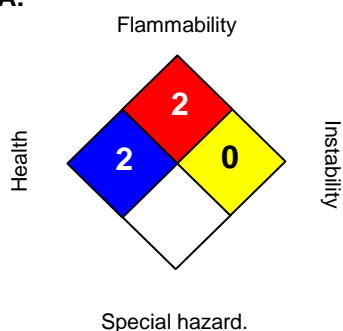
- SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313** : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by 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>EINECS</b>	On the inventory, or 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), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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

<b>HEALTH</b>	<b>2*</b>
<b>FLAMMABILITY</b>	<b>2</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

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. Causes skin irritation. May cause an allergic skin

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reaction. Causes serious eye irritation. May be harmful in contact with skin. May cause respiratory irritation. May cause damage to organs. May be fatal if swallowed and enters airways.

Precautionary statements :

**Prevention:** Keep container tightly closed. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Keep away from open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. 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/ protective clothing/ 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 INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician 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 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. Store locked up.

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

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We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations to determine the suitability and applicability of the information for their particular purposes. This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier or distributor.

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.