



# SAFETY DATA SHEET

## 1. Identification

**Product Identifier** **Naturesol O2**

**Other means of identification**  
**Product code** CU-1620

**Recommended use** Carpet spotter and general cleaner.

**Recommended restrictions** None known.

**Manufacturer information**

**Company name** **Chemical Universe, Inc.**

**Address** 1841 Vernon St.  
North Kansas City, MO 64116

**Telephone** (816) 471-3602

**Fax** (816) 474-3302

**Emergency phone number** PERS 24-hour Emergency (800) 633-8253

## 2. Hazard(s) Identification

**Physical hazards** Not classified.

**Health hazards** Skin irritation Category 2  
Eye irritation Category 2A

**Environmental hazards** Not classified.

**OSHA defined hazards** None.

**Label elements**



**Signal word** **WARNING**

**Hazard statement** Causes skin irritation.  
Causes serious eye irritation.

**Precautionary statement**

**Prevention** Wash hands and exposed skin thoroughly after handling. Wear protective gloves. Wear eye protection/face protection.

**Response** **IF ON SKIN:** Wash with plenty of water. Specific treatment (see section 4 on this SDS). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.  
**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. If eye irritation persists: Get medical advice/attention.

**Storage** No prescriptive instructions

**Disposal** No prescriptive instructions

**Hazard(s) not otherwise classified (HNOC)** None.

**Supplemental information** None.

## 3. Composition/information on ingredients

Mixture Component(s)		
Chemical name	CAS number	%
Alcohols, C9-11, ethoxylated	68439-46-3	1-3
Hydrogen peroxide	7722-84-1	1-2



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D-limonene	5989-27-5	0.1-1
Other components below reportable levels		94-97

## 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and warm water for at least 15 minutes. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
<b>Eye contact</b>	Rinse with water for at least 15 minutes. Remove contact lenses if present and easy to do so. Immediately call a physician or transport to hospital.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting.
<b>Most important symptoms/effects, acute and delayed</b>	Can cause serious eye irritation. Can cause burning sensation in affected areas. Can cause dermatitis, rash. Hydrogen peroxide can temporarily turn the skin white with persistent contact.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general support measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse. Use with caution.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Alcohol-resistant foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this may spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protecting clothing must be worn in case of fire.
<b>Fire-fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	This product is miscible in water.  Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.



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Small spills: Wipe up with absorbent material (e.g. cloth, absorbent wipes). Clean surface thoroughly with water to remove residual contamination.

Never return spills to original container for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** Avoid release to the open environment. Avoid discharge into surface drainage paths and other areas not consistent with package labeling.

## 7. Handling and storage

**Precautions for safe handling** Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities** Store in original tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Hydrogen Peroxide	PEL	1 ppm

#### US ACGIH Threshold Limit Values

Components	Type	Value
Hydrogen Peroxide	TWA	1 ppm

### Biological limit values

No data available.

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable level. It is recommended that users of this product perform a risk assessment to determine the appropriate personal protective equipment.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

#### Skin protection

##### Hand protection

The use of gloves impervious to the specific material handled is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Suggested protective materials: Nitrile and PVC rubber

##### Other

Wear appropriate chemical-resistant clothing where indicated.

##### Respiratory protection

Respiratory protection not indicated for prescribed use of this product.

##### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

When using do not smoke or use chewing tobacco. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.



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### 9. Physical and chemical properties

#### Appearance

Physical State	Liquid
Color	Colorless
Odor	Citrus
Odor threshold	Not available.
pH	4.5-6
Melting/freezing point	23°F (-5°C) estimated.
Initial boiling point and boiling range	>212°F (>100°C).
Flash point	>392°F (>200°C).
Evaporation rate	Not available.
Flammability	Not available.
Flammability Limits	
Upper	Not available.
Lower	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity (water=1)	1.01
Solubility in water	Complete.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

### 10. Stability and reactivity

Reactivity	This product is stable and non-reactive under normal conditions of use.
Chemical stability	Material is stable under normal conditions. Store in a cool dark place.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Material decomposes with the potential to produce a rupture of unvented closed containers. Avoid storing in excessive heat or sunlight.
Incompatible materials	Metals, organic materials, strong reducing agents, strong bases.
Hazardous decomposition products	No hazardous decomposition products occur. Oxygen can be liberated at temperatures above ambient.

### 11. Toxicological information

#### Information on likely routes of exposure

Ingestion	Do not ingest. May be harmful if swallowed.
Inhalation	Do not inhale. May irritate the upper respiratory tract.
Skin contact	Can cause skin irritation.
Eye contact	Can cause serious eye irritation.



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**Symptoms related to the physical, chemical and toxicological characteristics**

Skin irritation, serious eye irritation. Can temporarily turn skin white with prolonged contact.

**Acute toxicity**

Expected to have low toxicity to humans.

Product Naturesol O2 (CAS mixture)		
Exposure Classification	Route and Species	LD <sub>50</sub> /LC <sub>50</sub>
Acute	Oral, rat	>21,600 mg/kg (estimated).
*Estimates for product may be based on additional component data not shown		

**Skin corrosion/irritation**

Can cause skin irritation.

**Serious eye damage/ irritation**

Can cause serious eye irritation.

**Respiratory sensitization**

Not considered a respiratory sensitizer.

**Skin sensitization**

Not considered a skin sensitizer.

**Germ cell mutagenicity**

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity**

Not considered a carcinogen.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not Listed.

**Reproductive toxicity**

No data available.

**Specific target organ toxicity – single exposure**

May irritate the upper respiratory tract with prolonged inhalation.

**Specific target organ toxicity – repeated exposure**

No data available.

**Aspiration hazard**

No data available.

## 12. Ecological information

Ecotoxicity		
Product Naturesol O2 (CAS mixture)		
Aquatic	Species	Test Results
Crustacea	Daphnia magna	EC <sub>50</sub> = 126.8 mg/L (estimated)
Fish	Fathead minnow <i>Pimephales promelas</i>	LD <sub>50</sub> = 254.4 mg/L (estimated)
*Estimates for product may be based on additional component data not shown		

**Persistence and degradability**

Hydrogen peroxide in the aquatic environment is subject to various reduction or oxidation processes and decomposes into water and oxygen. Hydrogen peroxide half-life in freshwater ranges from 8 hours to 20 days, in air from 10 to 20 hours, and in soils from minutes to hours depending upon microbiological activity and metal contamination. Alcohol ethoxylate: considered readily biodegradable.

**Bioaccumulative potential**

Expected to be low, will likely degrade before accumulation can occur.

**Mobility in soil**

Chemicals of these classes are highly water soluble and are expected to exhibit moderate to high mobility in saturated and semi-saturated soils

**Other adverse effects**

No other adverse environmental effects known (*i.e. ozone depleting substance, tropospheric ozone precursor, greenhouse gas emission, endocrine disruptor or other deleterious environmental effect*).



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### 13. Disposal considerations

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations. As packaged, this product is not believed to meet criteria defining RCRA hazardous wastes when disposed. (40 CFR Part 261, Subpart C). Before selecting disposal method, ensure that the waste materials have been properly assessed and, as necessary, tested to confirm regulatory status.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues/unused product</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may contain product residue, follow label warnings even after container is emptied.

### 14. Transport information

USDOT Not regulated as dangerous goods

### 15. Regulatory information

#### US federal regulations

**SARA 302 Extremely hazardous substance** Not listed.

**SARA 304 Emergency release notification** Not listed.

#### SARA 311/312 Hazard Categories

Immediate Hazard - Yes

Delayed Hazard – No

Fire Hazard – No

Pressure Hazard – No

Reactivity Hazard – No

**SARA 313 (TRI reporting)** Not listed.

**TSCA** – All chemical components used to manufacture this product comply with the Toxic Substances Control Act (TSCA) registry requirements and are either listed within, or exempted from, the current TSCA 8(b) inventory.

#### California Proposition 65

#### California Safe Drinking Water and Toxic Enforcement Act of 1986

This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to threshold determination and Safe Harbor notification (1/2019)

### 16. Other information, including date of preparation or last revision

<b>Issue date</b>	10/13/2014
<b>Revision date</b>	10/21/2019, 6/8/2020
<b>Version #</b>	2
<b>HMIS® ratings</b>	Health: 1 Flammability: 0



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Physical hazard: 0

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	<input type="checkbox"/>

### NFPA ratings

Health: 1  
Flammability: 0  
Instability: 0



### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, and have been obtained from resources believed to be reliable. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information related only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified by the text.

### Revision information

10/21/2019 General format update; Refine composition table, amend physical data; Update toxicology thresholds and environmental fate information; Text clarification amendments Sections 5,6,8,9 and 12. PPE recommendation updated; California Proposition 65 notice; HMIS and NFPA pictograms added.  
6/8/2020 TSCA language added; Logo update; Environmental fate language update.