

## KEYSTONE ORANGE MULTI-SURFACE CLEANER

### Section 1. Chemical product and company identification

**Product name** : KEYSTONE ORANGE MULTI-SURFACE CLEANER  
**Recommended use and restrictions** : Cleaning product

Use only for the purpose on the product label.

**Product dilution information** : Up to 16 oz/gal or 125 mL/L in water

**Supplier's information** : Ecolab Inc. Institutional Division  
 370 N. Wabasha Street  
 St. Paul, MN 55102  
 1-800-352-5326

**Code** : 915294-01

**Date of issue** : **12 Jun 2013**

EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
 Outside United States and Canada CALL 1-651-222-5352 (in USA)

### Section 2. Hazards identification

**Product AS SOLD**  
**GHS Classification** : SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A  
 SKIN SENSITIZATION - Category 1  
 AQUATIC TOXICITY (ACUTE) - Category 3  
 AQUATIC TOXICITY (CHRONIC) - Category 3

**GHS label elements**

**Signal word** : Warning

**Symbol** :



**Hazard statements** : Causes serious eye irritation.  
 May cause an allergic skin reaction.  
 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention** : Wear protective gloves. Wear eye or face protection. Avoid release to the environment. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

**Response** : IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Storage** : Not applicable.

**Product AT USE DILUTION**  
 SKIN SENSITIZATION - Category 1

Warning



May cause an allergic skin reaction.

Wear protective gloves. Avoid breathing vapor. Contaminated work clothing should not be allowed out of the workplace.

IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.

Not applicable.

## Section 2. Hazards identification

**Disposal** : See section 13 for waste disposal information.  
**Other hazards** : None known.

None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

### Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
SODIUM DODECYLBENZENESULFONATE	6	25155-30-0
TEA-DODECYLBENZENESULFONATE	2	27323-41-7
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts	1 - 5	68585-34-2
Limonene	1 - 5	5989-27-5

### Product AT USE DILUTION

Hazardous ingredients	Concentration Range (%)	CAS number
Limonene	<1.0	5989-27-5

## Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.	No known effect after eye contact. Rinse with water for a few minutes.
<b>Skin contact</b>	: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.	Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Inhalation</b>	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
<b>Ingestion</b>	: Get medical attention if symptoms occur.	Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
<b>Notes to physician</b>	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	

See toxicological information (section 11)

## Section 5. Fire-fighting measures

### Product AS SOLD

**Suitable fire extinguishing media** : Use water spray, fog or foam.

**Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal decomposition products** :

## Section 5. Fire-fighting measures

Decomposition products may include the following materials:

carbon dioxide  
carbon monoxide  
nitrogen oxides  
sulfur oxides  
halogenated compounds  
metal oxide/oxides

- Specific fire-fighting methods** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

- |                                  | Product AS SOLD  | Product AT USE DILUTION  |
|----------------------------------|--|--|
| <b>Personal precautions</b>      | : Use personal protective equipment as required.   | Use personal protective equipment as required.   |
| <b>Environmental precautions</b> | : Avoid contact of large amounts of spilled material and runoff with soil and surface waterways. | Avoid contact of large amounts of spilled material and runoff with soil and surface waterways. |
| <b>Methods for cleaning up</b>   | : Use a water rinse for final clean-up.  | Use a water rinse for final clean-up.  |

## Section 7. Handling and storage

- |                 | Product AS SOLD   | Product AT USE DILUTION   |
|-----------------|---|---|
| <b>Handling</b> | : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. | Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. |
| <b>Storage</b>  | : Keep out of reach of children.  | Keep out of reach of children.  |
- Store between the following temperatures: 0 and 50°C

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
Limonene	AIHA WEEL (United States, 5/2010). TWA: 30 ppm 8 hours.

- |   | Product AS SOLD  | Product AT USE DILUTION  |
|---|--|--|
| <b>Appropriate engineering controls</b> | : Good general ventilation should be sufficient to control worker exposure to airborne contaminants. | Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
| <b>Personal protection</b>              |  |  |
| <b>Eye protection</b>                   | : Wear eye protection.   | No protective equipment is needed under normal use conditions.                                     |
| <b>Hand protection</b>                  | : Use chemical-resistant, impervious gloves.   | Use chemical-resistant, impervious gloves.   |
| <b>Skin protection</b>                  | : Use suitable protective equipment.   | Use suitable protective equipment.   |
| <b>Respiratory protection</b>           | : A respirator is not needed under normal and intended conditions of product use.                    | A respirator is not needed under normal and intended conditions of product use.                    |
| <b>Hygiene measures</b>                 | :  |  |

## Section 8. Exposure controls/personal protection

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

## Section 9. Physical and chemical properties

	Product AS SOLD
Physical state	: Liquid.
Color	: Orange [Dark]
Odor	: citrus
pH	: 7.2 to 9 (100%)
Flash point	: > 100°C
Explosion limits	: Not available.
Flammability (solid, gas)	: Not available.
Melting point	: Not available.
Boiling point	: Not available.
Evaporation rate (butyl acetate = 1)	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.006 to 1.036 (Water = 1)
Solubility	: Not available.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Odor threshold	: Not available.
Viscosity	: Not available.

### Product AT USE DILUTION

Liquid.  
Orange [Light]  
citrus  
7 to 8.3  
> 100°C

## Section 10. Stability and reactivity

### Product AS SOLD

Stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Materials to avoid	: Not available.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

Route of exposure : Skin contact, Eye contact, Inhalation, Ingestion

## Section 11. Toxicological information

	Product AS SOLD	Product AT USE DILUTION
<b>Symptoms</b>		
<b>Eye contact</b>	: Adverse symptoms may include the following: pain or irritation watering redness	No specific data.
<b>Skin contact</b>	: Adverse symptoms may include the following: irritation redness	Adverse symptoms may include the following: irritation redness
<b>Inhalation</b>	: No specific data.	No specific data.
<b>Ingestion</b>	: No specific data.	No specific data.
<b>Acute toxicity</b>		
<b>Eye contact</b>	: Causes serious eye irritation.	No known significant effects or critical hazards.
<b>Skin contact</b>	: May cause an allergic skin reaction.	May cause an allergic skin reaction.
<b>Inhalation</b>	: No known significant effects or critical hazards.	No known significant effects or critical hazards.
<b>Ingestion</b>	: No known significant effects or critical hazards.	No known significant effects or critical hazards.

### Toxicity data

#### Product/ingredient name

sodium dodecylbenzene sulfonate	LD50 Dermal	Rat	>2000 mg/kg
	LD50 Oral	Rat	1090 mg/kg
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-. omega.-hydroxy-, c10-16-alkyl ethers, sodium salts	LD50 Dermal	Rat	>2000 mg/kg
	LD50 Oral	Rat	>2500 mg/kg
(r)-p-mentha-1,8-diene	LD50 Dermal	Rabbit	>5000 mg/kg
	LD50 Oral	Rat	4400 mg/kg

### Chronic toxicity

<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.

## Section 12. Ecological information

### Product AS SOLD

**Ecotoxicity** : This material is harmful to aquatic life with long lasting effects.

### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
sodium dodecylbenzene sulfonate	Acute LC50 3.2 mg/l	Fish	96 hours
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-. omega.-hydroxy-, c10-16-alkyl ethers, sodium salts	Acute LC50 28 mg/l	Fish	96 hours

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Product AS SOLD**  
**Disposal methods** : Diluted product can be flushed to sanitary sewer.  
 Discard empty container in trash.

**Product AT USE DILUTION**  
 Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

## Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

**DOT**

DOT Classification : Not regulated.

**IMO/IMDG**

IMO/IMDG Classification : Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

**Product AT USE DILUTION**  
 Not intended for transport.

## Section 15. Regulatory information

**Product AS SOLD**

**U.S. Federal regulations**

TSCA 8(b) inventory : All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

**SARA 313** : Product name : CAS number : Concentration

Form R - Reporting requirements : No listed substance

**California Prop. 65** : No listed substance

## Section 16. Other information

**Product AS SOLD**

Hazardous Material Information System (U.S.A.) :

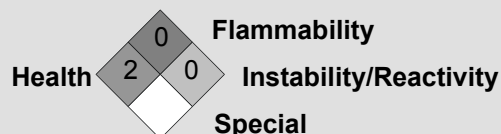
Health	*	2
Flammability		0
Physical hazards		0

National Fire Protection Association (U.S.A.) :



**Product AT USE DILUTION**

Health		2
Flammability		0
Physical hazards		0



## Section 16. Other information

Date of issue : 12 Jun 2013  
Prepared by : Regulatory Affairs  
1-800-352-5326

### Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.