

**Section: 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : KEYSTONE OVEN AND GRILL CLEANER AEROSOL

Other means of identification : Not applicable.

Recommended use : Grill Cleaner

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : Product is sold ready to use.

Company : Ecolab Co.  
5105 Tomken Road  
Mississauga, Ontario Canada L4W 2X5  
1-800-352-5326

Emergency health information : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)


Issuing date : 07/28/2015

**Section: 2. HAZARDS IDENTIFICATION**

**GHS Classification**

Skin corrosion : Category 1A  
Serious eye damage : Category 1

**GHS Label element**

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**  
Do not breathe dusts or mists. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. Intentional misuse by deliberate inhalation may be harmful or fatal.  
**Response:**  
IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. 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 or doctor/ physician. Wash contaminated clothing before reuse.  
**Storage:**  
Store locked up.  
**Disposal:**  
Dispose of contents/ container to an approved waste disposal plant.

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Other hazards : None known.

### Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration: (%)
sodium hydroxide	1310-73-2	1 - 5
2-(2-butoxyethoxy)ethanol	112-34-5	1 - 5
white mineral oil, petroleum	8042-47-5	1 - 5
triethanolamine	102-71-6	1 - 5
Aliphatic hydrocarbons	106-97-8	1 - 5
propane	74-98-6	1 - 5

### Section: 4. FIRST AID MEASURES

- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : Treat symptomatically.
- Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

### Section: 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during firefighting : Fire Hazard  
Keep away from heat and sources of ignition.  
Flash back possible over considerable distance.  
Pressurized container: May burst if heated.
- Hazardous combustion products : Decomposition products may include the following materials:  
Carbon oxides  
nitrogen oxides (NOx)  
Sulphur oxides  
Oxides of phosphorus

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Special protective equipment for firefighters : Use personal protective equipment.

Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Risk of explosion. : Not available.

### Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : Eliminate all ignition sources if safe to do so. Stop leak if safe to do so.

### Section: 7. HANDLING AND STORAGE

Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Keep away from fire, sparks and heated surfaces. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Contents under pressure. Do not puncture. Wash hands thoroughly after handling.

Conditions for safe storage : Keep away from heat and sources of ignition. Do not store near acids. Keep away from oxidizing agents. Keep out of reach of children. Store in suitable labeled containers.

Storage temperature : 5 °C to 45 °C

### Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
sodium hydroxide	1310-73-2	(c)	2 mg/m <sup>3</sup>	CAD AB OEL
		C	2 mg/m <sup>3</sup>	CAD BC OEL
		C	2 mg/m <sup>3</sup>	OEL (QUE)
sodium hydroxide	1310-73-2	Ceiling	2 mg/m <sup>3</sup>	ACGIH
		Ceiling	2 mg/m <sup>3</sup>	NIOSH REL
		TWA	2 mg/m <sup>3</sup>	OSHA Z1
2-(2-butoxyethoxy)ethanol	112-34-5	TWA (Inhalable fraction and vapor)	10 ppm	ACGIH
white mineral oil, petroleum	8042-47-5	TWA (Mist)	1 mg/m <sup>3</sup>	CAD BC OEL

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		TWA (Mist)	5 mg/m <sup>3</sup>	CAD AB OEL
		STEL (Mist)	10 mg/m <sup>3</sup>	CAD AB OEL
		VME (Mist)	5 mg/m <sup>3</sup>	OEL (QUE)
		STEV (Mist)	10 mg/m <sup>3</sup>	OEL (QUE)
white mineral oil, petroleum	8042-47-5	TWA (Mist)	5 mg/m <sup>3</sup>	NIOSH REL
		STEL (Mist)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z1
		TWA (Inhalable fraction)	5 mg/m <sup>3</sup>	ACGIH
triethanolamine	102-71-6	TWA	5 mg/m <sup>3</sup>	CAD AB OEL
		TWA	5 mg/m <sup>3</sup>	CAD BC OEL
		TWA	0.5 ppm 3.1 mg/m <sup>3</sup>	CA ON OEL
		VME	5 mg/m <sup>3</sup>	OEL (QUE)
triethanolamine	102-71-6	TWA	5 mg/m <sup>3</sup>	ACGIH
Aliphatic hydrocarbons	106-97-8	TWA	1,000 ppm	CAD AB OEL
		TWA	600 ppm	CAD BC OEL
		STEL	750 ppm	CAD BC OEL
		VME	800 ppm 1,900 mg/m <sup>3</sup>	OEL (QUE)
		TWA	800 ppm	CA ON OEL
Aliphatic hydrocarbons	106-97-8	TWA	800 ppm 1,900 mg/m <sup>3</sup>	NIOSH REL
		STEL	1,000 ppm	ACGIH
propane	74-98-6	TWA	1,000 ppm	CAD AB OEL
		TWA	1,000 ppm	CAD BC OEL
		VME	1,000 ppm 1,800 mg/m <sup>3</sup>	OEL (QUE)
		TWA	1,000 ppm	CA ON OEL
propane	74-98-6	TWA	1,000 ppm 1,800 mg/m <sup>3</sup>	NIOSH REL
		TWA	1,000 ppm 1,800 mg/m <sup>3</sup>	OSHA Z1

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

### Personal protective equipment

Eye protection : Wear eye protection/face protection.

Hand protection : Wear the following personal protective equipment:  
Standard glove type.  
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

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#### Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Aerosol.
Colour	: clear, light yellow
Odour	: citrus
pH	: 12.5 - 13.5, 100 %
Flash point	: -104.4 °C closed cup, Sustains combustion
Odour Threshold	: no data available
Melting point/freezing point	: no data available
Initial boiling point and boiling range	: > 100 °C
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available
Relative density	: 0.9966 - 0.9967
Water solubility	: soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, kinematic	: no data available
Explosive properties	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: no data available
VOC	: no data available
Heat of combustion	: 2.41 kJ/g

#### Section: 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Acids Metals
Hazardous decomposition	: Decomposition products may include the following materials:



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Acute inhalation toxicity : Aliphatic hydrocarbons  
4 h LC50 rat: 280000 ppm

#### Section: 12. ECOLOGICAL INFORMATION

##### Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

##### Product

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

##### Components

Toxicity to fish : 2-(2-butoxyethoxy)ethanol  
96 h LC50 Fish: 1,300 mg/l

white mineral oil, petroleum  
96 h LC50 Oncorhynchus mykiss (rainbow trout): > 100 mg/l

triethanolamine  
96 h LC50: 11,800 mg/l

Aliphatic hydrocarbons  
96 h LC50 Fish: 22.03 mg/l

##### Components

Toxicity to daphnia and other aquatic invertebrates : sodium hydroxide  
48 h EC50: 40 mg/l

triethanolamine  
48 h EC50: 609.88 mg/l

##### Components

Toxicity to algae : triethanolamine  
72 h EC50: > 100 mg/l

##### Persistence and degradability

no data available

##### Bioaccumulative potential

no data available

##### Mobility in soil

no data available

##### Other adverse effects

no data available

#### Section: 13. DISPOSAL CONSIDERATIONS

Disposal methods : Where possible recycling is preferred to disposal or incineration. If

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recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

#### Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

##### Land transport (TDG)

UN number : 1950  
Description of the goods : AEROSOLS, non-flammable  
Class : 2.2  
Environmentally hazardous : No

##### Sea transport (IMDG/IMO)

UN number : 1950  
Description of the goods : AEROSOLS, non-flammable  
Class : 2.2  
Marine pollutant : No

#### 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:**

##### United States TSCA Inventory :

On TSCA Inventory

##### Canadian Domestic Substances List (DSL) :

All components of this product are on the Canadian DSL.

##### Australia. Industrial Chemical (Notification and Assessment) Act :

On the inventory, or in compliance with the inventory

##### New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand :

On the inventory, or in compliance with the inventory

##### Japan. ENCS - Existing and New Chemical Substances Inventory :

not determined

##### Japan. ISHL - Inventory of Chemical Substances (METI) :

not determined

##### Korea. Korean Existing Chemicals Inventory (KECI) :

On the inventory, or in compliance with the inventory

##### Philippines Inventory of Chemicals and Chemical Substances (PICCS) :

On the inventory, or in compliance with the inventory

##### China Inventory of Existing Chemical Substances :

On the inventory, or in compliance with the inventory

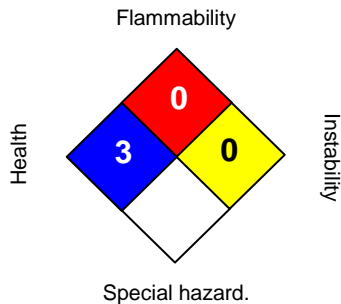


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### Section: 16. OTHER INFORMATION

#### NFPA:



#### HMIS III:

<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

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

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version : 1.0  
Prepared by : Regulatory Affairs 1-800-352-5326

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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 relates 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 in the text.