

# SAFETY DATA SHEET

## KEYSTONE OVEN AND GRILL CLEANER AEROSOL

### Section 1. Chemical product and company identification

**Product name** : KEYSTONE OVEN AND GRILL CLEANER AEROSOL  
**Recommended use and restrictions** : Aerosol

Use only for the purpose on the product label.

**Product dilution information** : Not applicable

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

**Code** : 913786

**Date of issue** : **05 Dec 2013**

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

### Section 2. Hazards identification

**GHS Classification** : **Product AS SOLD**  
: SKIN CORROSION/IRRITATION - Category 1  
SERIOUS EYE DAMAGE/ EYE IRRITATION -  
Category 1  
SPECIFIC TARGET ORGAN TOXICITY  
(SINGLE EXPOSURE) [Narcotic effects] -  
Category 3

#### GHS label elements

**Signal word** : Danger

**Symbol** :



**Hazard statements** : Causes severe skin burns and eye damage.  
May cause drowsiness and dizziness.

#### Precautionary statements

**Prevention** : Wear protective gloves. Wear eye or face protection. Wear protective clothing. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Do not breathe dust or mist. Intentional misuse by deliberate inhalation may be harmful or fatal. Wash hands thoroughly after handling.

**Response** : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off

#### **Product AT USE DILUTION**

Product is sold ready to use.

## Section 2. Hazards identification

immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or 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 physician.

**Storage** : No other specific measures identified.  
**Disposal** : See section 13 for waste disposal information.  
**Other hazards** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

### Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
SODIUM HYDROXIDE	4	1310-73-2
BUTOXYDIGLYCOL	2	112-34-5
BUTANE	1 - 5	106-97-8
PROPANE	1 - 5	74-98-6
TRIETHANOLAMINE	1 - 5	102-71-6
white mineral oil, petroleum	1 - 5	8042-47-5

### Product AT USE DILUTION

Hazardous ingredients	Concentration Range (%)	CAS number
Product is sold ready to use.		

## 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 immediately.	Product is sold ready to use.
<b>Skin contact</b>	: Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
<b>Inhalation</b>	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.	
<b>Ingestion</b>	: Get medical attention immediately. Rinse mouth. Do not induce vomiting.	
<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.	
<b>See toxicological information (section 11)</b>		

## 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. Bursting aerosol containers may be propelled from a fire at high speed.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- 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

- Personal precautions** : Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.
- Environmental precautions** : Avoid contact of spilled material and runoff with soil and surface waterways.
- Methods for cleaning up** : Use a water rinse for final clean-up.

### Product AT USE DILUTION

Product is sold ready to use.

## Section 7. Handling and storage

- Handling** : Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Liquid and vapor under pressure. Do not puncture or incinerate container. Use only with adequate ventilation. Wash thoroughly after handling.
- Storage** : Keep out of reach of children. Keep container tightly closed. Do not puncture or incinerate container.
- Store between the following temperatures: 5 and 45°C

### Product AT USE DILUTION

Product is sold ready to use.

## Section 8. Exposure controls/personal protection

### Control parameters

## Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
SODIUM HYDROXIDE	<b>ACGIH TLV (United States, 3/2012).</b> C: 2 mg/m <sup>3</sup> <b>OSHA PEL (United States, 6/2010).</b> TWA: 2 mg/m <sup>3</sup> 8 hours. <b>NIOSH REL (United States, 6/2009).</b> CEIL: 2 mg/m <sup>3</sup>
BUTANE	<b>ACGIH TLV (United States, 3/2012).</b> TWA: 1000 ppm 8 hours. <b>NIOSH REL (United States, 6/2009).</b> TWA: 800 ppm 10 hours. TWA: 1900 mg/m <sup>3</sup> 10 hours.
PROPANE	<b>ACGIH TLV (United States, 3/2012).</b> TWA: 1000 ppm 8 hours. <b>OSHA PEL (United States, 6/2010).</b> TWA: 1800 mg/m <sup>3</sup> 8 hours. TWA: 1000 ppm 8 hours. <b>NIOSH REL (United States, 6/2009).</b> TWA: 1000 ppm 10 hours. TWA: 1800 mg/m <sup>3</sup> 10 hours.
BUTOXYDIGLYCOL	<b>ACGIH TLV (United States, 3/2012).</b> TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor
TRIETHANOLAMINE	<b>ACGIH TLV (United States, 3/2012).</b> TWA: 5 mg/m <sup>3</sup> 8 hours.
white mineral oil, petroleum	<b>ACGIH TLV (United States, 3/2012).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction <b>NIOSH REL (United States, 6/2009).</b> TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist <b>OSHA PEL (United States, 6/2010).</b> TWA: 5 mg/m <sup>3</sup> 8 hours.

### Appropriate engineering controls

#### Product AS SOLD

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

### Personal protection

#### Eye protection

: Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

#### Hand protection

: Use chemical-resistant, impervious gloves.

#### Skin protection

: Use synthetic apron, other protective equipment as necessary to prevent skin contact.

#### Respiratory protection

: A respirator is not needed under normal and intended conditions of product use.

#### Hygiene measures

:

#### Product AT USE DILUTION

Product is sold ready to use.

## 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	: Aerosol
Color	: Yellow [Light]
Odor	: citrus
pH	: 12.5 to 13.5 (100%)
Flash point	: Not applicable.
Explosion limits	: Not available.
Flammability (solid, gas)	: Not available.
Melting point	: Not available.
Boiling point	: >100°C (>212°F)
Evaporation rate (butyl acetate = 1)	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 0.9966 to 0.9967 (Water = 1)
Solubility	: Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Odor threshold	: Not available.
Viscosity	: Kinematic (room temperature): 0 cm <sup>2</sup> /s (0 cSt)
<b><u>Aerosol product</u></b>	
Type of aerosol	: Spray
Heat of combustion	: 2.406 kJ/g
Ignition distance	: Not available.
Flame height	: Not available.
Flame duration	: Not available.

### Product AT USE DILUTION

Product is sold ready to use.

## Section 10. Stability and reactivity

<b>Product AS SOLD</b>	
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	: Reactive or incompatible with the following materials: acids. Slightly reactive or incompatible with the following materials: metals.
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

### Product AS SOLD

#### Symptoms

**Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

**Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur

**Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness  
Respiratory tract irritation

**Ingestion** : Adverse symptoms may include the following:  
stomach pains

#### Acute toxicity

**Eye contact** : Causes serious eye damage.

**Skin contact** : Causes severe burns.

**Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May cause respiratory irritation. Intentional misuse by deliberate inhalation may be harmful or fatal.

**Ingestion** : Can cause central nervous system (CNS) depression. May cause burns to mouth, throat and stomach.

### Product AT USE DILUTION

Product is sold ready to use.

#### Toxicity data

##### Product/ingredient name

butane	LC50 Inhalation Gas.	Rat	280000 ppm
2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2764 mg/kg
	LD50 Oral	Rat	3306 mg/kg
triethanolamine	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	6400 mg/kg
white mineral oil, petroleum	LC50 Inhalation Dusts and mists	Rat	>5.2 mg/l
	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	>5000 mg/kg

#### Chronic toxicity

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

## Section 12. Ecological information

### Product AS SOLD

**Ecotoxicity** : No known significant effects or critical hazards.

### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
sodium hydroxide	Acute EC50 40 mg/l	Daphnia	48 hours
butane	Acute LC50 22.03 mg/l	Fish	96 hours
2-(2-butoxyethoxy)ethanol	Acute LC50 1300 mg/l	Fish	96 hours
triethanolamine	Acute LC50 11800 mg/l	Fish	96 hours
white mineral oil, petroleum	Acute LC50 <100 mg/l	Fish	96 hours

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

## Section 13. Disposal considerations

**Disposal methods** : Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not puncture or incinerate container. Discard empty container in trash.

**RCRA classification** : Unused product is D002 (Corrosive)

### Product AT USE DILUTION

Product is sold ready to use.

## 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** UN1950  
**DOT Proper shipping name** Aerosols, corrosive  
**Class** 2.2 (8)  
**Packing group** -

### IMO/IMDG

**IMO/IMDG Classification** UN1950  
**IMO/IMDG Proper shipping name** AEROSOLS, CORROSIVE  
**Class** 2.2 (8)  
**Packing group** -

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

<u>SARA 313</u>	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
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## Section 15. Regulatory information

Form R - Reporting requirements : 2-(2-butoxyethoxy)ethanol

112-34-5

1 - 3

California Prop. 65 : No listed substance

## Section 16. Other information

Product AS SOLD

Hazardous Material :

Information System (U.S.A.)

Health	*	3
Flammability		2
Physical hazards		0

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



NFPA Aerosol Level : Level 1

Date of issue : 05 Dec 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.