

# Material Safety Data Sheet

KEYSTONE FRYER & GRILL CLEANER



## 1. Product and company identification

Trade name of product : KEYSTONE FRYER & GRILL CLEANER

Product use : Grill Cleaner

Product dilution information : Not applicable

Supplier's information : Ecolab Co.  
5105 Tomken Road  
Mississauga ON L4W 2X5  
1-800-352-5326

Code : 912224-02

Date of issue : 11-December-2013

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

## 2. Hazards identification

### Product AS SOLD

Physical state : Liquid.

Emergency overview : DANGER !

CAUSES DIGESTIVE TRACT, EYE AND SKIN BURNS.

Do not ingest. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.

Routes of entry : Skin contact, Eye contact, Inhalation, Ingestion

### Potential acute health effects

### Product AS SOLD

Eyes : Corrosive to eyes.

Skin : Corrosive to the skin.

Inhalation : No known significant effects or critical hazards.

Ingestion : Causes burns to mouth, throat and stomach.

See toxicological information (Section 11)

### Product AT USE DILUTION

Product is sold ready to use.

### Product AT USE DILUTION

Product is sold ready to use.

## 3. Composition/information on ingredients

### Product AS SOLD

#### Name

SODIUM HYDROXIDE

BUTOXYDIGLYCOL

sodium isononanoate

#### CAS number

1310-73-2

112-34-5

84501-72-4

#### % by weight

5- 10

3 - 7

0.5 - 1.5

### Product AT USE DILUTION

#### Name

Product is sold ready to use.

#### CAS number

#### % by weight

## 4. First-aid measures

Product AS SOLD		Product AT USE DILUTION
<b>Eye contact</b>	: In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.	Product is sold ready to use.
<b>Skin contact</b>	: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
<b>Inhalation</b>	: No special measures required. Treat symptomatically.	
<b>Ingestion</b>	: If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.	

## 5. Fire-fighting measures

### Product AS SOLD

<b>Auto-ignition temperature</b>	: Not available.
<b>Flammable limits</b>	: Not available.
<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
<b>Special remarks on fire hazards</b>	: Not available.
<b>Special remarks on explosion hazards</b>	: Not available.
<b>Fire-fighting media and instructions</b>	: Use an extinguishing agent suitable for the surrounding fire.  Dyke area of fire to prevent runoff. In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

Product AS SOLD		Product AT USE DILUTION
<b>Personal precautions</b>	: 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 spilt material.	Product is sold ready to use.
<b>Environmental precautions</b>	: Avoid contact of spilt material and runoff with soil and surface waterways.	
<b>Methods for cleaning up</b>	: Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/neutralise liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labelled container. Use a water rinse for final clean-up.	

## 7. Handling and storage

<b>Handling</b>	<b>Product AS SOLD</b>
	: Do not ingest. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.
<b>Storage</b>	<b>Product AS SOLD</b>
	: Keep out of reach of children. Keep container tightly closed. Store between the following temperatures: 0 and 50°C

### Product AT USE DILUTION

Product is sold ready to use.

## 8. Exposure controls/personal protection

<b>Engineering measures</b>	<b>Product AS SOLD</b>
	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour 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

<b>Eyes</b>	: Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.
<b>Hands</b>	: Use chemical-resistant, impervious gloves.
<b>Skin</b>	: Use synthetic apron, other protective equipment as necessary to prevent skin contact.
<b>Respiratory</b>	: No special protection is required.

### Product AT USE DILUTION

Product is sold ready to use.

Product is sold ready to use.

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			Notations
Ingredient	List name	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	
sodium hydroxide	US ACGIH 3/2012	-	-	-	-	-	-	-	2	-	[3]
	AB 4/2009	-	-	-	-	-	-	-	2	-	
	BC 4/2012	-	-	-	-	-	-	-	2	-	
	ON 7/2010	-	-	-	-	-	-	-	2	-	
	QC 9/2011	-	-	-	-	2	-	-	-	-	[a]
2-(2-butoxyethoxy)ethanol	US ACGIH 3/2012	10	-	-	-	-	-	-	-	-	

[3]Skin sensitisation

Form: [a]Inhalable fraction and vapor

## 9. Physical and chemical properties

<b>Physical state</b>	<b>Product AS SOLD</b>
	: Liquid.
<b>Flash point</b>	<b>Product AS SOLD</b>
	: 100 °C (Closed cup) Product does not support combustion.
<b>Colour</b>	: Red [Light]
<b>Odour</b>	: Faint odour
<b>pH</b>	: 13.3 [Conc. (% w/w): 100%]
<b>Boiling/condensation point</b>	: 100°C (212°F)
<b>Melting/freezing point</b>	: Not available.
<b>Relative density</b>	: 1.04 to 1.1
<b>Vapour pressure</b>	: Not available.
<b>Vapour density</b>	: Not available.

### Product AT USE DILUTION

Product is sold ready to use.

## 9. Physical and chemical properties

**Odour threshold** : Not available.

**Evaporation rate** : Not available.

**Viscosity** : Dynamic (room temperature): 50 mPa·s (50 cP)  
Kinematic (room temperature): 0.468131 cm<sup>2</sup>/s (46.8131 cSt)

**Dispersibility properties** : Easily dispersible in the following materials: cold water and hot water.

**Solubility** : Easily soluble in the following materials: cold water and hot water.

**LogK<sub>ow</sub>** : Not available.

## 10. Stability and reactivity

### Product AS SOLD

**Stability** : The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.

**Conditions of instability** : Not available.

**Reactivity** : Reactive or incompatible with the following materials: acids.  
Slightly reactive or incompatible with the following materials: organic materials and metals.

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Hazardous polymerisation** : Under normal conditions of storage and use, hazardous polymerisation will not occur.

## 11. Toxicological information

### Potential acute health effects

#### Product AS SOLD

**Eyes** : Corrosive to eyes.

**Skin** : Corrosive to the skin.

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

**Ingestion** : Causes burns to mouth, throat and stomach.

#### Product AT USE DILUTION

Product is sold ready to use.

### Product AS SOLD

#### Potential chronic health effects

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

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

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

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

**Sensitization to Product** : No known significant effects or critical hazards.

**Synergistic products (toxicologically)** : Not available.

### Toxicity data

Product/ingredient name	Test	Route	Result	Species
2-(2-butoxyethoxy)ethanol	LD50	Dermal	2764 mg/kg	Rabbit
	LD50	Oral	3306 mg/kg	Rat
sodium isononanoate	LD50	Dermal	>2000 mg/kg	Rat
	LD50	Oral	1160 mg/kg	Rat

### Other adverse effects

**Target organs** : Contains material which may cause damage to the following organs: upper respiratory tract.

## 12. Ecological information

Ecotoxicity : Not reported

## 13. Disposal considerations

### Product AS SOLD

**Waste disposal** : 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.

### Product AT USE DILUTION

Product is sold ready to use.

## 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.

### Product AS SOLD

#### TDG

TDG Classification UN1824  
 TDG Proper shipping name SODIUM HYDROXIDE SOLUTION  
 Class 8  
 Packing group II

#### IMO/IMDG

IMO/IMDG Classification UN1824  
 IMO/IMDG Proper shipping name SODIUM HYDROXIDE SOLUTION  
 Class 8  
 Packing group II

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

## 15. Regulatory information

### Product AS SOLD

**WHMIS** : Class E: Corrosive material

### Product AT USE DILUTION

Product is sold ready to use.

**Canada inventory** : At least one component is not listed in DSL but all such components are listed in NDSL.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## 16. Other information

### Product AS SOLD

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

Health	*	3
Flammability		0
Physical hazards		0

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

## 16. Other information



Date of issue : 11-December-2013

Responsible name : Regulatory Affairs  
1-800-352-5326

▣ Indicates information that has changed from previously issued version.

### 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.