

Material Safety Data Sheet

KEYSTONE GREASELIFT



1. Product and company identification

Trade name of product : KEYSTONE GREASELIFT

Product use : Degreaser

Product dilution information : Up to 21 oz/gal or 164 mL/L in water

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

Code : 915016-01

Date of issue : 03-April-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.
CAUSES RESPIRATORY TRACT IRRITATION.
HARMFUL IF INHALED.
MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED.

Do not ingest. Do not get in eyes, on skin or on clothing. Avoid breathing vapours, spray or mists. Keep container closed. Use only with adequate ventilation. 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. MAY BE HARMFUL IF ABSORBED THROUGH SKIN.

Inhalation : HARMFUL IF INHALED. Irritating to respiratory system.

Ingestion : Causes burns to mouth, throat and stomach. May be harmful if swallowed.

See toxicological information (Section 11)

Product AT USE DILUTION

Liquid.

WARNING!

MAY CAUSE EYE IRRITATION.

Avoid contact with eyes. Wash thoroughly after handling.

Product AT USE DILUTION

Slightly irritating to the eyes.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

3. Composition/information on ingredients

Product AS SOLD

Name

BENZYL ALCOHOL

ETHANOLAMINE

2-(2-aminoethoxy)ethanol

CAS number

100-51-6

141-43-5

929-06-6

% by weight

30 - 60

15 - 40

3 - 7

3. Composition/information on ingredients

Product AT USE DILUTION

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
BENZYL ALCOHOL	100-51-6	7 - 13
ETHANOLAMINE	141-43-5	3 - 7

4. First-aid measures

Product AS SOLD		Product AT USE DILUTION
Eye contact	: 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.	Rinse with water for a few minutes.
Skin contact	: 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.	No known effect after skin contact. Rinse with water for a few minutes.
Inhalation	: If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention.	No special measures required. Treat symptomatically.
Ingestion	: 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.	Get medical attention if symptoms occur.

5. Fire-fighting measures

Product AS SOLD

Auto-ignition temperature	: Not available.
Flammable limits	: Not available.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides
Special remarks on fire hazards	: Not available.
Special remarks on explosion hazards	: Not available.
Fire-fighting media and instructions	: 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.
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.

6. Accidental release measures

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

7. Handling and storage

	Product AS SOLD	Product AT USE DILUTION
Handling	: Do not ingest. Do not get in eyes, on skin, or on clothing. Avoid breathing vapours, spray or mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.	Avoid contact with eyes. Wash thoroughly after handling.
Storage	: Keep out of reach of children. Store in a closed container. Keep container tightly closed. Store between the following temperatures: 0 and 50°C	Keep out of reach of children. Store in a closed container.

8. Exposure controls/personal protection

	Product AS SOLD	Product AT USE DILUTION
Engineering measures	: 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.	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Personal protection		
Eyes	: Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.	No protective equipment is needed under normal use conditions.
Hands	: Use chemical-resistant, impervious gloves.	No protective equipment is needed under normal use conditions.
Skin	: Use synthetic apron, other protective equipment as necessary to prevent skin contact.	No protective equipment is needed under normal use conditions.
Respiratory	: Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.	No special protection is required.

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m ³	Other	ppm	mg/m ³	Other	ppm	mg/m ³	Other	Notations
2-aminoethanol	US ACGIH 3/2012	3	7.5	-	6	15	-	-	-	-	[3]
	AB 4/2009	3	7.5	-	6	15	-	-	-	-	
	BC 4/2012	3	-	-	6	-	-	-	-	-	
	ON 7/2010	3	7.5	-	6	15	-	-	-	-	
	QC 9/2011	3	7.5	-	6	15	-	-	-	-	

8. Exposure controls/personal protection

[3]Skin sensitisation

9. Physical and chemical properties

	Product AS SOLD
Physical state	: Liquid.
Flash point	: 96 °C (Closed cup)
Colour	: Orange [Dark]
Odour	: Faint odour
pH	: 10.1 to 10.9 [Conc. (% w/w): 100%]
Boiling/condensation point	: >100°C (>212°F)
Melting/freezing point	: Not available.
Relative density	: 1.046 to 1.066
Vapour pressure	: Not available.
Vapour density	: Not available.
Odour threshold	: Not available.
Evaporation rate	: Not available.
Viscosity	: Dynamic (room temperature): 23 mPa·s (23 cP)
Dispersibility properties	: Not available.
Solubility	: Easily soluble in the following materials: cold water and hot water.
LogK_{ow}	: Not available.

Product AT USE DILUTION

Liquid.
> 100°C
Orange
Faint odour
10.6 to 10.6

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	: Slightly reactive or incompatible with the following materials: metals and acids.
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. MAY BE HARMFUL IF ABSORBED THROUGH SKIN.
Inhalation	: HARMFUL IF INHALED. Irritating to respiratory system.
Ingestion	: Causes burns to mouth, throat and stomach. May be harmful if swallowed.

Product AT USE DILUTION

Slightly irritating to the eyes.
No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Product AS SOLD

Potential chronic health effects

11. Toxicological information

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-aminoethanol	LD50	Dermal	1025 mg/kg	Rabbit
	LD50	Oral	1089 mg/kg	Rat
benzyl alcohol	LD50	Dermal	2000 mg/kg	Rabbit
	LD50	Oral	1620 mg/kg	Rat
	LC50	Inhalation	>4.178 mg/l	Rat

Other adverse effects

Target organs : Contains material which may cause damage to the following organs: skin.

12. Ecological information

Ecotoxicity : Not reported

13. Disposal considerations

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

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	UN2491
TDG Proper shipping name	ETHANOLAMINE SOLUTION
Class	8
Packing group	III

IMO/IMDG

IMO/IMDG Classification	UN2491
IMO/IMDG Proper shipping name	ETHANOLAMINE SOLUTION
Class	8
Packing group	III

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

Product AT USE DILUTION

Not intended for transport.

15. Regulatory information

Product AS SOLD

Product AT USE DILUTION

WHMIS : Class D-2B: Material causing other toxic effects (Toxic).
Class E: Corrosive material

Not hazardous by WHMIS criteria.

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.) :

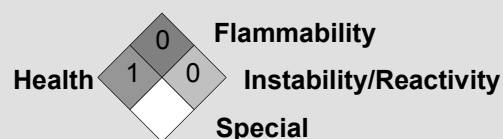
Health	*	3
Flammability		0
Physical hazards		0

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



Product AT USE DILUTION

Health	*	1
Flammability		0
Physical hazards		0



Date of issue : 03-April-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.