

KEYSTONE GREASELIFT

Section 1. Chemical product and company identification

Product name : KEYSTONE GREASELIFT
Recommended use and restrictions : Degreaser
Use only for the purpose on the product label.

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

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

Code : 915016-01

Date of issue : 03 Apr 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**
CORROSIVE TO METALS - Category 1
ACUTE TOXICITY: ORAL - Category 4
ACUTE TOXICITY: SKIN - Category 4
ACUTE TOXICITY: INHALATION - Category 4
SKIN CORROSION/IRRITATION - Category 1B
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation] - Category 3
AQUATIC TOXICITY (ACUTE) - Category 3

GHS label elements

Signal word : Danger

Symbol : 

Hazard statements : May be corrosive to metals.
Harmful if swallowed, in contact with skin or if inhaled.
Causes severe skin burns and eye damage.
May cause respiratory irritation.
Harmful to aquatic life.

Precautionary statements

Prevention : Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep only in original container. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapor. Wash hands thoroughly after handling.

Product AT USE DILUTION

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

Warning



Causes eye irritation.

Wash hands thoroughly after handling.

Section 2. Hazards identification

Response	: Absorb spillage to prevent material damage. 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 immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. 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.	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	: Store in corrosive resistant container with a resistant inner liner.	No other specific measures identified.
Disposal	: See section 13 for waste disposal information.	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
BENZYL ALCOHOL	20 - 50	100-51-6
ETHANOLAMINE	20 - 50	141-43-5
benzenesulfonic acid, dodecyl-, compd. with 2-aminoethanol (1:1)	5 - 20	26836-07-7
2-(2-aminoethoxy)ethanol	1 - 5	929-06-6
D-gluconic acid, compound with 2,2',2''-nitrilotrisethanol (1:1)	1 - 5	42728-79-0

Product AT USE DILUTION

Hazardous ingredients	Concentration Range (%)	CAS number
BENZYL ALCOHOL	5 - 20	100-51-6
ETHANOLAMINE	1 - 5	141-43-5
benzenesulfonic acid, dodecyl-, compd. with 2-aminoethanol (1:1)	1 - 5	26836-07-7

Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
Eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
Skin contact	: 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.	No known effect after skin contact. Rinse with water for a few minutes.

Section 4. First aid measures

Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.	No special measures required. Treat symptomatically.
Ingestion	: Get medical attention immediately. Rinse mouth. Do not induce vomiting.	Get medical attention if symptoms occur.
Protection of first-aiders	: 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. If ventilation is inadequate, use respirator that will protect against dust/mist. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
Notes to physician	: 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. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur 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
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.	Use personal protective equipment as required.
Environmental precautions	: Avoid contact 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.
Methods for cleaning up	: Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

Section 7. Handling and storage

	Product AS SOLD
Handling	: Do not ingest. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.
Storage	: Keep out of reach of children. Keep container tightly closed.
	Store between the following temperatures: 0 and 50°C

Product AT USE DILUTION
Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Keep out of reach of children. Keep container tightly closed.

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
ETHANOLAMINE	ACGIH TLV (United States, 3/2012). STEL: 15 mg/m ³ 15 minutes. STEL: 6 ppm 15 minutes. TWA: 7.5 mg/m ³ 8 hours. TWA: 3 ppm 8 hours. OSHA PEL (United States, 6/2010). TWA: 6 mg/m ³ 8 hours. TWA: 3 ppm 8 hours. NIOSH REL (United States, 6/2009). TWA: 3 ppm 10 hours. TWA: 8 mg/m ³ 10 hours. STEL: 6 ppm 15 minutes. STEL: 15 mg/m ³ 15 minutes.

	Product AS SOLD	Product AT USE DILUTION
Appropriate engineering controls	: 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.	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Personal protection		
Eye protection	: 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.
Hand protection	: Use chemical-resistant, impervious gloves.	No protective equipment is needed under normal use conditions.
Skin protection	: Use synthetic apron, other protective equipment as necessary to prevent skin contact.	No protective equipment is needed under normal use conditions.
Respiratory protection	: Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.	A respirator is not needed under normal and intended conditions of product use.
Hygiene measures	: 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	: Faint odor
pH	: 10.1 to 10.9 (100%)
Flash point	: 96 °C (Closed cup)
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	: 1.046 to 1.066 (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	: Dynamic (room temperature): 23 mPa·s (23 cP)

Product AT USE DILUTION

Liquid.
Orange
Faint odor
10.6 to 10.6
> 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	: 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.

Section 11. Toxicological information

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

	Product AS SOLD
<u>Symptoms</u>	
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

Product AT USE DILUTION

Adverse symptoms may include the following:
irritation
watering
redness
No specific data.

Section 11. Toxicological information

Inhalation	: Adverse symptoms may include the following: coughing Respiratory tract irritation	No specific data.
Ingestion	: Adverse symptoms may include the following: stomach pains	No specific data.
Acute toxicity		
Eye contact	: Causes serious eye damage.	Causes eye irritation.
Skin contact	: Causes severe burns. Harmful in contact with skin.	No known significant effects or critical hazards.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.	No known significant effects or critical hazards.
Ingestion	: Harmful if swallowed. May cause burns to mouth, throat and stomach.	No known significant effects or critical hazards.

Toxicity data

Product/ingredient name

benzyl alcohol	LC50 Inhalation Vapor	Rat	>4.178 mg/l
	LD50 Dermal	Rabbit	2000 mg/kg
	LD50 Oral	Rat	1620 mg/kg
2-aminoethanol	LD50 Dermal	Rabbit	1025 mg/kg
	LD50 Oral	Rat	1089 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	: This material is harmful to aquatic life.
--------------------	---

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
benzyl alcohol	Acute LC50 >100 mg/l	Fish	96 hours
2-aminoethanol	Acute EC50 65 mg/l	Daphnia	48 hours

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

Section 13. Disposal considerations

Product AS SOLD		Product AT USE DILUTION
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.	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 UN2491
 DOT Proper shipping name Ethanolamine solutions
 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.

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	*	3
Flammability		0
Physical hazards		0

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



Product AT USE DILUTION

Health	*	1
Flammability		0
Physical hazards		0



Section 16. Other information

Date of issue : 03 Apr 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.