## SAFETY DATA SHEET



KLENZ SOLV

## Section 1. Chemical product and company identification

**Product name** 

: KLENZ SOLV

Recommended use and

: Cleaning product

restrictions

Use only for the purpose on the product label.

Product dilution information: Up to 5 oz/gal or 40 mL/L in water

Supplier's information

: Ecolab Inc. Food & Beverage Division

370 N. Wabasha Street St. Paul, MN 55102 1-800-392-3392

Code

: 914895

Date of issue

: 24 Jan 2014

EMERGENCY HEALTH INFORMATION: 1-800-328-0026

Outside United States and Canada CALL 1-651-222-5352 (in USA)

### Section 2. Hazards identification

**Product AS SOLD** 

**GHS Classification** 

: FLAMMABLE LIQUIDS - Category 3

SKIN CORROSION/IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION -

Category 1

**GHS label elements** 

Signal word

: Danger

Symbol

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**Hazard statements** 

: Flammable liquid and vapor.

Causes severe skin burns and eye damage.

### Precautionary statements

**Prevention** 

: Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Keep container tightly closed. 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 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.

### **Product AT USE DILUTION**

SKIN CORROSION/IRRITATION - Category

1

SERIOUS EYE DAMAGE/ EYE IRRITATION

- Category 1

Danger



Causes severe skin burns and eye damage.

Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash hands thoroughly after handling.

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 IN EYES: Rinse cautiously with

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## Section 2. Hazards identification

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER or physician.

Storage

: Store in a well-ventilated place. Keep cool.

Disposal

: See section 13 for waste disposal information.

Other hazards

: None known.

water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

No other specific measures identified.

See section 13 for waste disposal

information.

None known.

## Section 3. Composition/information on ingredients

Substance/mixture

Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
SODIUM DODECYLBENZENESULFONATE	3	25155-30-0
SODIUM HYDROXIDE	3	1310-73-2
METHOXYISOPROPANOL	5 - 20	107-98-2
SODIUM XYLENE SULFONATE	1 – 5	1300-72-7
TETRASODIUM EDTA	1 - 5	64-02-8

### Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

### Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTIO
Eye contact	: Rinse cautiously with water for several minutes.	Rinse cautiously with water
	Remove contact lenses, if present and easy to do.	minutes. Remove contact

Continue rinsing. Get medical attention

immediately.

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.

Inhalation : Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention immediately.

Ingestion : Get medical attention immediately. Rinse mouth.

Do not induce vomiting.

### NC

r for several lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

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.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.

Get medical attention immediately. Rinse mouth. Do not induce vomiting.

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. Wash contaminated

clothing thoroughly with water before removing it, or wear gloves.

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The Notes to physician

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 dry chemical, CO2, water spray (fog) or foam.

Specific hazards arising from the chemical

: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur 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

#### **Product AS SOLD**

# Personal precautions

: Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Eliminate all ignition sources. Use personal protective equipment as required. Do not touch or walk through spilled material.

Environmental precautions
Methods for cleaning up

- : Avoid contact of spilled material and runoff with soil and surface waterways.
- : 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. If emergency personnel are not present, contain and collect small spillages with non-combustible absorbent material, e.g. sand, earth or other suitable material and place in a suitable container for disposal. 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.

### **Product AT USE DILUTION**

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.

Avoid contact of spilled material and runoff with soil and surface waterways.

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.

## Section 7. Handling and storage

#### Product AS SOLD

### Handling

: Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Use only with adequate ventilation. Wash thoroughly after handling.

#### Storage

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#### Product AT USE DILUTION

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.

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## Section 7. Handling and storage

Keep out of reach of children. Keep container tightly closed. Keep container tightly closed and sealed until ready for use. Keep container in a cool, well-ventilated area. Avoid all possible sources of ignition (spark or flame). Store in a segregated and approved area.

Store between the following temperatures: -10 and 40°C

Keep out of reach of children. Keep container tightly closed.

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits	
METHOXYISOPROPANOL	ACGIH TLV (United States, 3/2012).  STEL: 553 mg/m³ 15 minutes.  STEL: 150 ppm 15 minutes.  TWA: 369 mg/m³ 8 hours.  TWA: 100 ppm 8 hours.  NIOSH REL (United States, 6/2009).  TWA: 100 ppm 10 hours.  TWA: 360 mg/m³ 10 hours.  STEL: 150 ppm 15 minutes.  STEL: 540 mg/m³ 15 minutes.	
SODIUM HYDROXIDE	ACGIH TLV (United States, 3/2012).  C: 2 mg/m³ OSHA PEL (United States, 6/2010).  TWA: 2 mg/m³ 8 hours.  NIOSH REL (United States, 6/2009).  CEIL: 2 mg/m³	

#### **Product AS SOLD**

### 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. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive 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** Skin protection

- : Use chemical-resistant, impervious gloves.
- : 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.

### Product AT USE DILUTION

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.

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

Use chemical-resistant, impervious gloves.

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

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.

Product AT USE DILUTION

11.5 to 12.5 [Conc. (% w/w): 100%]

Liquid.

Colorless

Odorless

## Section 9. Physical and chemical properties

**Product AS SOLD** 

Physical state

: Liquid.

Color

: Yellow [Light]

Odor

: Faint odor

На

: 12.1 (100%)

Flash point

: 51 °C (Closed cup)

Explosion limits Flammability (solid,

Not available.Not available.

gas)

Melting point

: Not available.

Boiling point Evaporation rate Not available.Not available.

(butyl acetate = 1)

Vapor pressure

: Not available.: Not available.

Vapor density Relative density

: 1.058 (Water = 1)

Solubility

: Easily soluble in the following materials: cold

water and hot water.

D--4141------

Partition coefficient: : Not available.

n-octanol/water

**Auto-ignition** 

: Not available.

temperature

Decomposition

: Not available.

temperature

Odor threshold

: Not available.

**Viscosity** 

: Kinematic (room temperature); 0 cm²/s (0 cSt)

## 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

: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Materials to avoid

: Highly reactive or incompatible with the following materials: acids.

Slightly reactive or incompatible with the following materials: metals and moisture.

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

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## Section 11. Toxicological information

**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:

coughing

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 : May cause respiratory irritation.

: May cause burns to mouth, throat and stomach. Ingestion

**Product AT USE DILUTION** 

Adverse symptoms may include the following:

pain watering

redness:

Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Adverse symptoms may include the following:

coughing

Respiratory tract irritation

Adverse symptoms may include the following:

stomach pains

Causes serious eye damage.

Causes severe burns.

May cause respiratory irritation.

May cause burns to mouth, throat and

stomach.

27.3 mg/l

### **Toxicity data**

### Product/ingredient name

1-methoxy-2-propanol Vapor LD50 Dermal Rabbit >13000 mg/kg LD50 Oral Rat >5000 mg/kg

sodium dodecylbenzene sulfonate LD50 Dermal Rat >2000 mg/kg LD50 Oral Rat 1086 mg/kg >6.2 mg/l Rat

Benzenesulfonic acid, dimethyl-, sodium salt LC50 Inhalation

(1:1)

**Dusts and mists** 

LC50 Inhalation

LD50 Dermal Rabbit >2000 mg/kg LD50 Oral Rat >7000 mg/kg LD50 Oral Rat 1700 mg/kg

Rat

acetic acid, (ethylenedinitrilo)tetra-,

tetrasodium salt

#### Chronic toxicity

Carcinogenicity : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. : No known significant effects or critical hazards. **Teratogenicity** : No known significant effects or critical hazards. **Developmental effects** 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**  KLENZ SOLV 24 Jan 2014

### Section 12. Ecological information

1-methoxy-2-propanol Acute LC50 >1000 mg/l

Acute LC50 3.2 mg/l sodium dodecylbenzene sulfonate sodium hydroxide

Acute EC50 40 mg/l

Daphnia

96 hours 96 hours

Benzenesulfonic acid, dimethyl-, sodium salt (1: Acute EC50 230 mg/l

Aquatic plants

48 hours 96 hours

acetic acid, (ethylenedinitrilo)tetra-, tetrasodium Acute LC50 121 mg/l

Fish

Fish

Fish

96 hours

Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

### **Product AS SOLD**

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.

Product AT USE DILUTION

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.

RCRA classification: Unused product is D001 (Ignitable)

## 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** 

UN2920

DOT Proper shipping name

Corrosive liquids, flammable, n.o.s. (sodium hydroxide, 1-methoxy-2-propanol)

Class

8 (3)

Packing group

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**IMO/IMDG** 

IMO/IMDG Classification

UN2920

IMO/IMDG Proper shipping name

CORROSIVE LIQUID, FLAMMABLE, N.O.S. (sodium hydroxide,

1-methoxy-2-propanol)

Class

8 (3)

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

**SARA 313** 

**Product name** 

**CAS** number

Concentration

Form R - Reporting

requirements

No listed substance

California Prop. 65

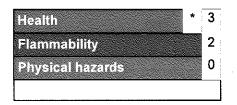
: No listed substance

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### Section 16. Other information

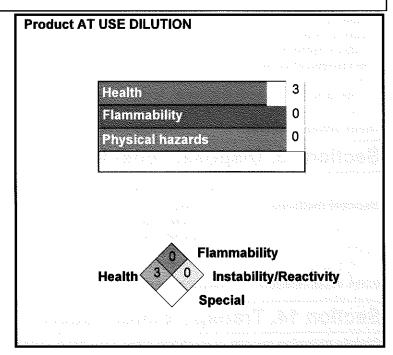
**Product AS SOLD** 

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



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





Date of issue

: 24 Jan 2014

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.