## SAFETY DATA SHEET



AVOID II

## Section 1. Chemical product and company identification

**Product name** 

: AVOID II

Recommended use and

: Cleaning product

restrictions

Use only for the purpose on the product label.

Product dilution information : Up to 5.1 oz/gal or 39.8 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

: 930495-01

Date of issue

: 05 Mar 2013

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** 

: CORROSIVE TO METALS - Category 1 SKIN CORROSION/IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION -

Category 1

AQUATIC TOXICITY (ACUTE) - Category 3

**GHS label elements** 

Signal word

Symbol

: Danger



**Hazard statements** 

: May be corrosive to metals.

Causes severe skin burns and eye damage.

Harmful to aquatic life.

**Precautionary statements** 

Prevention

: Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep only in original container. Avoid release to the environment. Wash hands thoroughly after handling.

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.

**Product AT USE DILUTION** 

SKIN CORROSION/IRRITATION - Category

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.

AVOID II

## Section 2. Hazards identification

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

: Store in corrosive resistant container with a

resistant inner liner.

Disposal

: See section 13 for waste disposal information.

Other hazards

: None known.

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.

No other specific measures identified.

See section 13 for waste disposal

information.

None known.

## Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

**Product AS SOLD** 

Hazardous ingredients Concentration Range (%) **CAS** number

29

SODIUM HYDROXIDE TRISODIUM HEDTA

1310-73-2

1 - 5

139-89-9

Product AT USE DILUTION

Hazardous ingredients

Concentration Range (%)

**CAS** number

SODIUM HYDROXIDE

1

1310-73-2

#### Section 4. First aid measures

#### **Product AS SOLD**

Eye contact

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. 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.

Product AT USE DILUTION

Rinse cautiously with water for several minutes. Remove contact 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.

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 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.

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

## 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). 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. 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. 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: -30 and 50°C

#### **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.

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

05 Mar 2013 AVOID II

## Section 8. Exposure controls/personal protection

#### **Control parameters**

Ingredient name	Exposure limits
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. 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

Hygiene measures

before reusing.

intended conditions of product use. : Wash hands, forearms and face thoroughly after handling chemical products, before eating,

#### **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.

## Section 9. Physical and chemical properties

#### **Product AS SOLD**

Physical state : Liquid.

Color : Amber [Light] Odor : Faint odor

: 13 to 13.8 (100%) Нq

Flash point : > 100°C

Product does not support combustion.

**Explosion limits** Flammability (solid, Not available.

gas)

: Not available.

Melting point **Boiling point** 

: Not available. : 100°C (212°F) : Not available.

Evaporation rate (butyl acetate = 1)

Vapor pressure : Not available. Vapor density : Not available.

Relative density : 1.325 to 1.365 (Water = 1)

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

Liquid. Pale color Odorless 12.1 to 13.1 > 100°C

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

## Section 9. Physical and chemical properties

Solubility

: Easily soluble in the following materials: cold

water and hot water.

Partition coefficient: : Not available.

n-octanol/water

**Auto-ignition** 

: Not available.

temperature

Decomposition

: Not available.

temperature

Odor threshold

: Not available.

**Viscosity** 

: Not available.

## 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

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

Reactive or incompatible with the following materials: organic 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

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

Eve contact

: Causes serious eve damage.

Skin contact

: Causes severe burns.

Inhalation

: May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

Ingestion

: May cause burns to mouth, throat and stomach.

Causes serious eye damage.

Respiratory tract irritation

**Product AT USE DILUTION** 

Adverse symptoms may include the following:

Causes severe burns.

May give off gas, vapor or dust that is very irritating or corrosive to the respiratory

system.

watering

redness

redness

coughing

pain or irritation

stomach pains

blistering may occur

May cause burns to mouth, throat and stomach.

#### **Toxicity data**

Product/ingredient name

Result

**Species** 

Dose

## Section 11. Toxicological information

glycine, n-[2-[bis(carboxymethyl)amino] ethyl]-n-(2-hydroxyethyl)-, trisodium salt LD50 Oral

Rat

10000 ma/ka

**Chronic toxicity** 

Carcinogenicity

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

Mutagenicity **Teratogenicity** 

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

: This material is harmful to aquatic life.

Aquatic and terrestrial toxicity

Product/ingredient name

Result

Species

**Exposure** 

sodium hydroxide

Acute EC50 40 mg/l

Daphnia

48 hours

glycine, n-[2-[bis(carboxymethyl)amino]ethyl]-n- Chronic EC50 >500 mg/l (2-hydroxyethyl)-, trisodium salt

Daphnia

48 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.

RCRA classification : Unused product is D002 (Corrosive)

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.

## 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** 

UN1824

**DOT Proper shipping name** 

Sodium hydroxide solution

Class

8

**Packing group** 

П

**IMO/IMDG** 

**IMO/IMDG Classification** 

UN1824

**IMO/IMDG Proper shipping name** 

SODIUM HYDROXIDE SOLUTION

Class

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

**SARA 313** 

**Product name** 

**CAS** number

Concentration

Form R - Reporting

rorm R - Reporting

: No listed substance

California Prop. 65

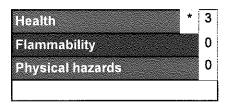
: No listed substance

### Section 16. Other information

#### **Product AS SOLD**

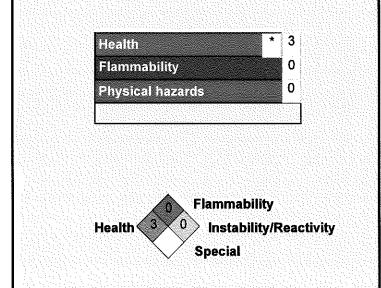
**Hazardous Material** 

Information System (U.S.A.)



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





**Product AT USE DILUTION** 

Date of issue

: 05 Mar 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.