# **Material Safety Data Sheet**

**PINNACLE** 

#### 1. Product and company identification

Trade name of product : PINNACLE **Product use** : Cleaning product

Product dilution information: Up to 3.0 oz/gal or 23 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 : 991505-01

Date of issue : 08-February-2012

> **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** : DANGER!

overview

CAUSES RESPIRATORY TRACT, DIGESTIVE

TRACT, EYE AND SKIN BURNS. MAY BE HARMFUL IF SWALLOWED.

Do not ingest. Do not get in eyes, on skin or on clothing. Do not breathe vapor or spray. Keep container closed. Use only with adequate ventilation.

Wash thoroughly after handling.

Potential acute health effects

**Product AS SOLD** 

: Corrosive to eyes. Eyes Skin : Corrosive to the skin.

Inhalation : Corrosive to the 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!

CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

**Product AT USE DILUTION** 

Severely irritating to eyes.

Moderately irritating to the skin.

No known significant effects or critical

hazards.

No known significant effects or critical

hazards.

#### Composition/information on ingredients 3.

**Product AS SOLD** 

**CAS** number % by weight

1310-73-2 SODIUM HYDROXIDE 41

**Product AT USE DILUTION** 

**CAS** number % by weight

SODIUM HYDROXIDE 1310-73-2 < 1 PINNACLE 8 February 2012

### 4. First aid measures

#### **Product AS SOLD**

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.

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.

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 immediately.

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.

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

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.

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.

No special measures required. Treat symptomatically.

Get medical attention if symptoms occur.

### 5. Fire-fighting measures

**Product AS SOLD** 

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide phosphorus oxides metal oxide/oxides

Fire-fighting media and instructions

: Use an extinguishing agent suitable for the surrounding fire.

Dike area of fire to prevent runoff.

In a fire or if heated, a pressure increase will occur and the container may burst.

Fire-fighters should wear appropriate protective equipment and self-contained

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

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

: Avoid contact 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 water rinse for final clean-up.

Product AT USE DILUTION

Use personal protective equipment as required.

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

Use a water rinse for final clean-up.

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#### Handling and storage 7.

**Product AS SOLD** 

Handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray. Keep

container closed. Use only with adequate ventilation.

Wash thoroughly after handling.

: Keep out of reach of children. Keep container tightly Storage

Store between the following temperatures: -30 and

50°C

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

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Keep out of reach of children. Store in a closed container.

#### 8. **Exposure controls/personal protection**

### **Engineering**

measures

**Product AS SOLD** : 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**

**Eyes** : Use chemical splash goggles. For continued or severe

exposure wear a face shield over the goggles.

Hands : Use chemical-resistant, impervious gloves.

Skin : Use synthetic apron, other protective equipment as

necessary to prevent skin contact.

Respiratory : Wear appropriate respirator when ventilation is

inadequate and occupational exposure limits are

exceeded.

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

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Wear eye protection.

For prolonged or repeated handling, use the following type of gloves: Impervious gloves.

No protective equipment is needed under normal use conditions.

No special protection is required.

Ingredient	Exposure limits
	ACGIH TLV (United States, 2/2010). C: 2 mg/m³ OSHA PEL (United States, 6/2010). TWA: 2 mg/m³ 8 hour(s). NIOSH REL (United States, 6/2009). CEIL: 2 mg/m³

#### 9. Physical and chemical properties

**Product AS SOLD** 

**Physical state** : Liquid. : > 100°C Flash point

Product does not support combustion.

Color : Brown [Dark] Odor : Odorless

: 14 [Conc. (% w/w): 100%] На

Boiling/condensation: 100°C (212°F)

point

Relative density: 1.475 to 1.485

Solubility : Easily soluble in the following materials: cold water

and hot water.

### Product AT USE DILUTION

Liquid. > 100°C

Pale color Faint odor 12.2 to 13.2 **PINNACLE** 8 February 2012

## Stability and reactivity

**Product AS SOLD** 

Stability : The product is stable. Under normal conditions of storage and use, hazardous

polymerization will not occur.

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

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

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

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

#### **Toxicological information** 11.

#### Potential acute health effects

Product AS SOLD

: Corrosive to eyes. Eyes Skin : Corrosive to the skin.

Inhalation : Corrosive to the respiratory system.

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

harmful if swallowed.

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

Severely irritating to eyes.

Moderately irritating to the skin.

No known significant effects or critical

hazards.

No known significant effects or critical

hazards.

**Product AS SOLD** Other adverse effects

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

tract.

#### **Ecological information** 12.

**Ecotoxicity** : Not reported

#### Disposal considerations 13.

**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.

**RCRA** : Unused product is D002 (Corrosive)

classification

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

**Product AT USE DILUTION** 

#### **Transport information** 14.

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** 

**DOT Classification** UN1824

DOT Proper shipping name Sodium hydroxide solution

**Class** Packing group Ш

For transport in bulk or using IMDG regulations, see shipping documents for specific transportation information.

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

Not intended for transport.

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## 15. Regulatory information

**Product AS SOLD** 

**HCS**: Corrosive material

Classification 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

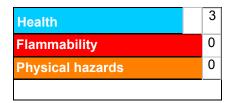
: No listed substance

California Prop. 65 : No listed substance

### 16. Other information

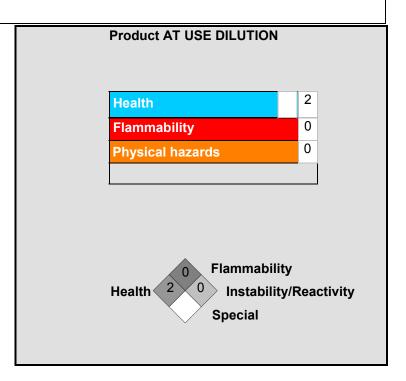
**Product AS SOLD** 

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



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





**Product AT USE DILUTION** 

Irritating material

Date of issue : 08-February-2012
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.