

# **SOLID POWER (914100)**

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : SOLID POWER (914100)

Other means of identification : Not applicable

Recommended use : Machine Warewashing Detergent

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.08 % - 0.2 %

Company : Ecolab Inc.

370 N. Wabasha Street

St. Paul, Minnesota USA 55102

1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 01/21/2015

# **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

**Product AS SOLD** 

Skin corrosion : Category 1A Serious eye damage : Category 1

**Product AT USE DILUTION** 

Skin corrosion : Category 1A Serious eye damage : Category 1

#### **GHS Label element**

**Product AS SOLD** 

Hazard pictograms



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : Prevention:

Wash skin thoroughly after handling.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 doctor/ physician. Wash

contaminated clothing before reuse.

Storage:

Store locked up.

914100-01 1 / 11

# SOLID POWER (914100)

#### Disposal:

Dispose of contents/ container to an approved waste disposal plant.

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

Hazard pictograms



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : Prevention:

Wash skin thoroughly after handling. Wear protective gloves/

protective clothing/ eye protection/ face protection.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 doctor/ physician. Wash

contaminated clothing before reuse.

Storage: Store locked up. Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Product AS SOLD** 

Pure substance/mixture : Mixture

Chemical Name CAS-No. Concentration (%)

 sodium hydroxide
 1310-73-2
 60 - 100

 Sodium Carbonate(soda)
 497-19-8
 10 - 30

 oxirane, methyl-, polymer with oxirane
 9003-11-6
 1 - 5

# **Product AT USE DILUTION**

No hazardous ingredients

## **SECTION 4. FIRST AID MEASURES**

**Product AS SOLD** 

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Get medical attention immediately.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use

a mild soap if available. Wash clothing before reuse. Thoroughly clean

shoes before reuse. Get medical attention immediately.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give

914100-01 2 / 11

# SOLID POWER (914100)

anything by mouth to an unconscious person. Get medical attention

immediately.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if

symptoms occur.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal

protective equipment.

Notes to physician : Treat symptomatically.

Most important symptoms and effects, both acute and

delayed

: See Section 11 for more detailed information on health effects and

symptoms.

**Product AT USE DILUTION** 

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Get medical attention immediately.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use

a mild soap if available. Wash clothing before reuse. Thoroughly clean

shoes before reuse. Get medical attention immediately.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give

anything by mouth to an unconscious person. Get medical attention

immediately.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if

symptoms occur.

## **SECTION 5. FIRE-FIGHTING MEASURES**

**Product AS SOLD** 

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: None known.

Specific hazards during fire

fighting

: Not flammable or combustible.

Hazardous combustion

products

: Decomposition products may include the following materials:

Carbon oxides

Nitrogen oxides (NOx)

Sulfur oxides

Oxides of phosphorus

Special protective equipment

for fire-fighters

: Use personal protective equipment.

Specific extinguishing

methods

: Fire residues and contaminated fire extinguishing water must be

disposed of in accordance with local regulations. In the event of fire

and/or explosion do not breathe fumes.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

914100-01 3 / 11

# SOLID POWER (914100)

#### **Product AS SOLD**

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions** 

: Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up

: Sweep up and shovel into suitable containers for disposal.

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

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions** 

: Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up

: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

## **SECTION 7. HANDLING AND STORAGE**

**Product AS SOLD** 

Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not

breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate

ventilation. Wash hands thoroughly after handling.

Conditions for safe storage

: Do not store near acids. Keep out of reach of children. Store in

suitable labeled containers.

Storage temperature : -10 °C to 50 °C

**Product AT USE DILUTION** 

Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not

breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate

ventilation. Wash hands thoroughly after handling.

Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Product AS SOLD**

Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
sodium hydroxide	1310-73-2	Ceiling	2 mg/m3	ACGIH

914100-01 4 / 11

# **SOLID POWER (914100)**

Ceiling	2 mg/m3	NIOSH REL
TWA	2 mg/m3	OSHA Z1

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

Personal protective equipment

Eye protection : Due to the form and packaging of the product, no protective

equipment is needed under normal use conditions.

Hand protection : Due to the form and packaging of the product, no protective

equipment is needed under normal use conditions.

Skin protection : Due to the form and packaging of the product, no protective

equipment is needed under normal use conditions.

Respiratory protection : Due to the form and packaging of the product, no protective

equipment is needed under normal use conditions.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes

and body in case of contact or splash hazard.

**Product AT USE DILUTION** 

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

Personal protective equipment

Eye protection : Wear eye protection/ face protection.

Hand protection : Wear the following personal protective equipment:

Standard glove type.

Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves,

safety goggles and protective clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they

must use appropriate certified respirators.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Product AS SOLD Product AT USE DILUTION

Appearance : Cast Solid liquid
Color : opaque, off-white colorless
Odor : slight odorless
pH : 12.0 - 13.0, 1 % 11.2 - 11.7

Flash point : Not applicable, Does not sustain combustion.

Odor Threshold : No data available

Melting point/freezing point : No data available

914100-01 5 / 11

# SOLID POWER (914100)

Initial boiling point and

boiling range

: No data available

Evaporation rate : No data available Flammability (solid, gas) : No data available : No data available Upper explosion limit Lower explosion limit : No data available Vapor pressure : No data available Relative vapor density : No data available

Relative density : No data available

Water solubility : soluble

Partition coefficient: n-

octanol/water

: No data available : No data available

Autoignition temperature

Solubility in other solvents

: No data available

Thermal decomposition : No data available : No data available Viscosity, kinematic : No data available Explosive properties Oxidizing properties : No data available Molecular weight : No data available

VOC : No data available

# **SECTION 10. STABILITY AND REACTIVITY**

**Product AS SOLD** 

: Stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

: No dangerous reaction known under conditions of normal use.

Conditions to avoid : None known.

Incompatible materials : Metals Acids

Organic materials

Hazardous decomposition

products

: Decomposition products may include the following materials:

Carbon oxides

Nitrogen oxides (NOx) Sulfur oxides

Oxides of phosphorus

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Eye contact, Skin contact

exposure

**Potential Health Effects** 

**Product AS SOLD** 

Eyes : Causes serious eye damage.

914100-01 6/11

# **SOLID POWER (914100)**

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

**Product AT USE DILUTION** 

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

#### **Experience with human exposure**

**Product AS SOLD** 

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

**Product AT USE DILUTION** 

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

**Toxicity** 

**Product AS SOLD** 

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Acute inhalation toxicity : 4 h Acute toxicity estimate : > 10 mg/l

Acute dermal toxicity : No data available
Skin corrosion/irritation : No data available
Serious eye damage/eye : No data available

irritation

Respiratory or skin

sensitization

: No data available

Carcinogenicity : No data available
Reproductive effects : No data available
Germ cell mutagenicity : No data available
Teratogenicity : No data available

914100-01 7 / 11

# **SOLID POWER (914100)**

STOT-single exposure : No data available STOT-repeated exposure : No data available Aspiration toxicity : No data available

# **SECTION 12. ECOLOGICAL INFORMATION**

# **Product AS SOLD**

**Ecotoxicity** 

**Environmental Effects** : Harmful to aquatic life.

**Product** 

Toxicity to fish : No data available Toxicity to daphnia and other : No data available

aquatic invertebrates

: No data available Toxicity to algae

Ingredients

Toxicity to fish : oxirane, methyl-, polymer with oxirane

96 h LC50 Fish: > 100 mg/l

Ingredients

Toxicity to daphnia and other : sodium hydroxide

aquatic invertebrates

48 h EC50: 40 mg/l

Sodium Carbonate(soda) 48 h EC50 Daphnia: 200 mg/l

#### Persistence and degradability

No data available

#### Bioaccumulative potential

No data available

# Mobility in soil

No data available

#### Other adverse effects

No data available

# **SECTION 13. DISPOSAL CONSIDERATIONS**

**Product AS SOLD** 

Disposal methods : The product should not be allowed to enter drains, water courses or

the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste

disposal facility.

: Dispose of as unused product. Empty containers should be taken to Disposal considerations

an approved waste handling site for recycling or disposal. Do not reuse empty containers. Dispose of in accordance with local, state, and

federal regulations.

914100-01 8/11

# SOLID POWER (914100)

RCRA - Resource

: D002 (Corrosive)

Conservation and Recovery Authorization Act Hazardous

waste

**Product AT USE DILUTION** 

Disposal methods : Where possible recycling is preferred to disposal or incineration. If

recycling is not practicable, dispose of in compliance with local

regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to

an approved waste handling site for recycling or disposal. Do not reuse empty containers. Dispose of in accordance with local, state, and

federal regulations.

#### **SECTION 14. TRANSPORT INFORMATION**

#### **Product AS SOLD**

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

UN number : 1759

Description of the goods : Corrosive solids, n.o.s.

(sodium hydroxide)

Class : 8
Packing group : III
Environmentally hazardous : no

Sea transport (IMDG/IMO)

UN number : 1759

Description of the goods : CORROSIVE SOLID, N.O.S.

(sodium hydroxide)

Class : 8
Packing group : III
Marine pollutant : no

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

Not intended for transport.

# **SECTION 15. REGULATORY INFORMATION**

#### **Product AS SOLD**

## **EPCRA - Emergency Planning and Community Right-to-Know**

#### **CERCLA Reportable Quantity**

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ
			(lbs)
sodium hydroxide	1310-73-2	1000	1541

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

914100-01 9 / 11

# SOLID POWER (914100)

**SARA 302** : No chemicals in this material are subject to the reporting requirements

of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known

CAS numbers that exceed the threshold (De Minimis) reporting levels

established by SARA Title III, Section 313.

#### California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### The ingredients of this product are reported in the following inventories:

## **United States TSCA Inventory:**

On TSCA Inventory

#### Canadian Domestic Substances List (DSL):

All components of this product are on the Canadian DSL.

## Australia Inventory of Chemical Substances (AICS):

not determined

#### New Zealand. Inventory of Chemical Substances:

not determined

# Japan. ENCS - Existing and New Chemical Substances Inventory :

not determined

#### Japan. ISHL - Inventory of Chemical Substances (METI) :

not determined

#### Korea. Korean Existing Chemicals Inventory (KECI):

On the inventory, or in compliance with the inventory

#### Philippines Inventory of Chemicals and Chemical Substances (PICCS):

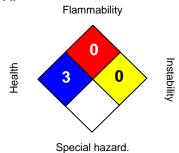
not determined

#### China. Inventory of Existing Chemical Substances in China (IECSC):

not determined

# **SECTION 16. OTHER INFORMATION**

#### **Product AS SOLD** NFPA:



# HMIS III:

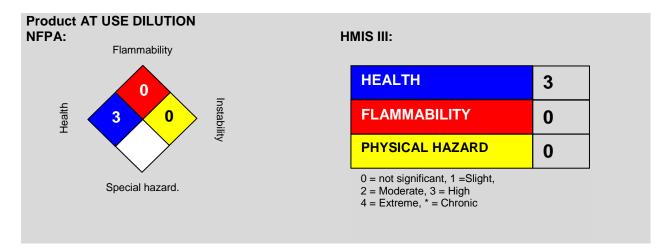
HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

914100-01 10/11

# **SOLID POWER (914100)**



Issuing date : 01/21/2015

Version : 1.0

Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

914100-01 11 / 11