Material Safety Data Sheet



SOLID POWER XL

1. Product and company identification

Trade name of product

: SOLID POWER XL

Product use

: Machine Warewashing Detergent

Product dilution information: Up to 0.15% in water

Supplier's information

: Ecolab Co.

5105 Tomken Road

Mississauga ON L4W 2X5

1-800-352-5326

Code

: 913472

Date of issue

: 21-March-2011

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

: Cast Solid

Emergency overview

: DANGER!

CAUSES DIGESTIVE TRACT, EYE AND SKIN

BURNS.

MAY BE HARMFUL IF SWALLOWED.

Do not ingest. Do not get in eyes, on skin or on

clothing. Wash thoroughly after handling.

Routes of entry : Skin contact, Eye contact, Ingestion

Potential acute health effects

Product AS SOLD

Eyes

: Corrosive to eyes.

Skin

: Corrosive to the skin.

Inhalation

: No known significant effects or critical hazards.

Ingestion

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

harmful if swallowed.

See toxicological information (section 11)

Product AT USE DILUTION

Liquid.

CAUTION!

No specific hazard.

No specific hazard.

Product AT USE DILUTION

No known significant effects or critical

hazards.

3. Composition/information on ingredients

Product AS SOLD

 Name
 CAS number
 % by weight

 SODIUM HYDROXIDE
 1310-73-2
 40 - 70

 SODIUM CARBONATE
 497-19-8
 5- 10

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.

SOLID POWER XL 21 March 2011

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.

: No special measures required. Treat symptomatically. No special measures required. Treat Inhalation

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

No known effect after eye contact. Rinse with water for a few minutes.

No known effect after skin contact. Rinse with water for a few minutes.

symptomatically.

Get medical attention if symptoms occur.

5. Fire-fighting measures

Product AS SOLD

Auto-ignition temperature Flammable limits

Hazardous thermal decomposition products : Not available. : Not available.

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide phosphorus oxides metal oxide/oxides

Special remarks on fire hazards: Not available.

Special remarks on explosion

hazards

: Not available.

Fire-fighting media and

instructions

: Use an extinguishing agent suitable for the surrounding fire.

Dyke area of fire to prevent runoff. No specific fire or explosion hazard.

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 spilt material.

Environmental precautions

: Avoid contact of spilt material and runoff with soil and

surface waterways.

Methods for cleaning up

: Collect spillage. Use a water rinse for final clean-up.

Product AT USE DILUTION

Use personal protective equipment as required.

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

Use a water rinse for final clean-up.

Handling and storage 7.

Product AS SOLD

Handling : Do not ingest. Do not get in eyes, on skin, or on

> clothing. Do not breathe dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly

after handling.

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

closed.

Store between the following temperatures: -10 and

50°C

Product AT USE DILUTION

Wash thoroughly after handling.

Keep out of reach of children.

Exposure controls/personal protection 8.

Product AS SOLD

Engineering measures

: Good general ventilation should be sufficient to control

worker exposure to airborne contaminants.

Personal protection

: Due to the form and packaging of the product, no Eyes

protective equipment is needed under normal use

conditions.

Due to the form and packaging of the product, no Hands

protective equipment is needed under normal use

conditions.

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

protective equipment is needed under normal use

conditions.

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

protective equipment is needed under normal use

conditions.

Product AT USE DILUTION

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

No protective equipment is needed under

normal use conditions.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

No special protection is required.

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
sodium hydroxide	US ACGIH 2/2010 AB 4/2009 BC 10/2009 ON 7/2010 QC 6/2008	-	-		-	- - - - 2	- - - -	- - -	2 2 2 2	-	[3]

[3]Skin sensitisation

Physical and chemical properties 9.

Product AS SOLD

Physical state : Cast Solid : > 100°C Flash point

Colour : White Odour : Odourless

Ha : 12.5 [Conc. (% w/w): 1%]

Boiling/condensation: Not available.

point

Melting/freezing: Not available.

point

Relative density: Not available. Vapour pressure: Not available. Vapour density: Not available. Odour threshold: Not available. Product AT USE DILUTION

Liquid. > 100°C Clear Odourless 11.64 to 12.1 SOLID POWER XL 21 March 2011

9. Physical and chemical properties

Evaporation rate: Not available.

Viscosity

: Not available. : Not available.

Dispersibility properties

Solubility

: Not available.

LogK_{ow}

: Not available.

Stability and reactivity

Product AS SOLD

Stability

: The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.

Conditions of instability

Reactivity

Not available. Extremely reactive or incompatible with the following materials: acids.

Highly reactive or incompatible with the following materials: metals. 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 polymerisation

Under normal conditions of storage and use, hazardous polymerisation will not occur.

Toxicological information 11.

Potential acute health effects

Product AS SOLD

Eyes

: Corrosive to eyes.

Skin

: Corrosive to the skin.

Inhalation

: No known significant effects or critical hazards.

Ingestion

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

harmful if swallowed.

Product AT USE DILUTION

No known significant effects or critical

hazards.

Product AS SOLD

Potential chronic health effects

Carcinogenic effects

: No known significant effects or critical hazards.

Mutagenic effects

: No known significant effects or critical hazards.

Teratogenic effects

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

Reproductive effects **Sensitization to Product**

: No known significant effects or critical hazards.

Synergistic products

(toxicologically)

: Not available.

Toxicity data

Product/ingredient name	Test	Route	Result	Species
sodium hydroxide	LD50	Dermal	>2000 mg/kg	Rabbit
and control of the co	LD50	Dermal	1350 mg/kg	Rabbit
	LD50	Oral	500 mg/kg	Rabbit
	LD50	Oral	300 to 500 mg/kg	Rat
	LDLo	Oral	500 mg/kg	Rabbit
sodium carbonate	LD50	Dermal	>2000 mg/kg	Rabbit
	LD50	Oral	6600 mg/kg	Mouse
	LD50	Oral	4090 mg/kg	Rat
	LC50	Inhalation	2300 mg/m3	Rat

Other adverse effects

11. Toxicological information

Target organs

: Contains material which may cause damage to the following organs: lungs, upper respiratory tract.

12. Ecological information

Ecotoxicity

: Not reported

13. Disposal considerations

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.

Product AT USE DILUTION

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

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.

Product AS SOLD

TDG Classification

UN1823

TDG Proper shipping name

SODIUM HYDROXIDE, SOLID

Class

8

Packing group

11

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

Product AT USE DILUTION

Not intended for transport.

15. Regulatory information

Product AS SOLD

Product AT USE DILUTION

WHMIS

: Class E: Corrosive material

Not hazardous by WHMIS criteria.

Canada inventory

: All components are listed or exempted.

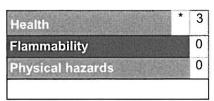
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. Other information

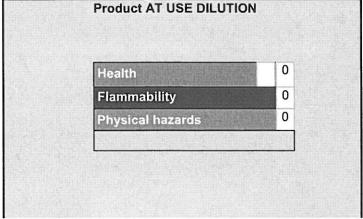
Product AS SOLD

Hazardous Material

Information System (U.S.A.)



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



SOLID POWER XL 21 March 2011

16. Other information

Health 3 0 Instability/Reactivity
Special

Health 0 0 Instability/Reactivity
Special

Date of issue

: 21-March-2011

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.