

## Section 1. Chemical product and company identification

**Product name** : LAUNDRI PERMA BRITE PLUS  
**Recommended use and restrictions** : Laundry detergent  
 Use only for the purpose on the product label.

**Product dilution information** : Up to 3.1 oz/10 gal or 2.4 mL/L in water

**Supplier's information** : Ecolab Inc. Institutional Division  
 370 N. Wabasha Street  
 St. Paul, MN 55102  
 1-800-352-5326

**Code** : 991281

**Date of issue** : **01 Apr 2013**  
 EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
 Outside United States and Canada CALL 1-651-222-5352 (in USA)

## Section 2. Hazards identification

**GHS Classification** : **Product AS SOLD**  
 : CORROSIVE TO METALS - Category 1  
 ACUTE TOXICITY: ORAL - Category 4  
 SKIN CORROSION/IRRITATION - Category 1B  
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation] - Category 3  
 AQUATIC TOXICITY (ACUTE) - Category 3

**GHS label elements**

**Signal word** : Danger

**Symbol** : 

**Hazard statements** : May be corrosive to metals.  
 Harmful if swallowed.  
 Causes severe skin burns and eye damage.  
 May cause respiratory irritation.  
 Harmful to aquatic life.

**Precautionary statements**

**Prevention** : Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep only in original container. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing dust. Do not breathe dust or mist. Wash hands thoroughly after handling.

**Response** :

**Product AT USE DILUTION**

Not classified.

No signal word.

No known significant effects or critical hazards.

Wash thoroughly after handling.

## Section 2. Hazards identification

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. 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.

Get medical attention if symptoms appear.

- Storage** : Store in corrosive resistant container with a resistant inner liner.
- Disposal** : See section 13 for waste disposal information.
- Other hazards** : Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

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
SODIUM DODECYLBENZENESULFONATE	1	25155-30-0
SODIUM CARBONATE	>50	497-19-8
SODIUM METASILICATE	20 - 50	6834-92-0
alcohols, c12-16, ethoxylated	5 - 20	68551-12-2
SODIUM CARBONATE PEROXIDE	1 - 5	15630-89-4

**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

	<b>Product AS SOLD</b>	<b>Product AT USE DILUTION</b>
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.	No known effect after eye contact. Rinse with water for a few minutes.
<b>Skin contact</b>	: 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.	No known effect after skin contact. Rinse with water for a few minutes.
<b>Inhalation</b>	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.	No special measures required. Treat symptomatically.
<b>Ingestion</b>	: Get medical attention immediately. Rinse mouth. Do not induce vomiting.	Get medical attention if symptoms occur.

## Section 4. First aid measures

- 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. If ventilation is inadequate, use respirator that will protect against dust/mist. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (section 11)

## Section 5. Fire-fighting measures

### Product AS SOLD

- Suitable fire extinguishing media** : Use dry chemical powder.
- Specific hazards arising from the chemical** : 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 monoxide  
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.
- 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	Product AT USE DILUTION
<b>Personal precautions</b>	: 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.	Use personal protective equipment as required.
<b>Environmental precautions</b>	: Avoid contact of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
<b>Methods for cleaning up</b>	: 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 water rinse for final clean-up.	Use a water rinse for final clean-up.

## Section 7. Handling and storage

	Product AS SOLD	Product AT USE DILUTION
<b>Handling</b>	: Do not ingest. Do not get in eyes or on skin or clothing. Do not breathe dust. Use only with adequate ventilation. Wash thoroughly after handling.	Wash thoroughly after handling.
<b>Storage</b>	: Keep out of reach of children. Keep container tightly closed.  Store between the following temperatures: 0 and 50°C	Keep out of reach of children.

## Section 8. Exposure controls/personal protection

Control parameters	
<b>Ingredient name</b>	<b>Exposure limits</b>
None.	

	Product AS SOLD	Product AT USE DILUTION
<b>Appropriate engineering controls</b>	: 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.	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Personal protection</b>		
<b>Eye protection</b>	: Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.	No protective equipment is needed under normal use conditions.
<b>Hand protection</b>	: Use chemical-resistant, impervious gloves.	No protective equipment is needed under normal use conditions.
<b>Skin protection</b>	: Use synthetic apron, other protective equipment as necessary to prevent skin contact.	No protective equipment is needed under normal use conditions.
<b>Respiratory protection</b>	: A respirator is not needed under normal and intended conditions of product use.	A respirator is not needed under normal and intended conditions of product use.
<b>Hygiene measures</b>	: 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.	

## Section 9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
<b>Physical state</b>	: Powder	Liquid.
<b>Color</b>	: White to yellowish	Colorless
<b>Odor</b>	: Faint odor	Odorless
<b>pH</b>	: 11.6 to 12.6 (1%)	10.5 to 11.8
<b>Flash point</b>	: > 100°C Product does not support combustion.	> 100°C Product does not support combustion.
<b>Explosion limits</b>	: Not available.	
<b>Flammability (solid, gas)</b>	: Not available.	
<b>Melting point</b>	: Not available.	
<b>Boiling point</b>	: >100°C (>212°F)	
<b>Evaporation rate (butyl acetate = 1)</b>	: Not available.	
<b>Vapor pressure</b>	: Not available.	
<b>Vapor density</b>	: Not available.	
<b>Relative density</b>	: Not applicable.	
<b>Solubility</b>	: Soluble in the following materials: hot water. Partially soluble in the following materials: cold water.	



## Section 11. Toxicological information

sodium carbonate	LC50 Inhalation Dusts and mists	Rat	1.15 mg/l
	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	2800 mg/kg
disodium metasilicate	LD50 Oral	Rat	500 mg/kg
alcohols, c12-16, ethoxylated	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	1100 mg/kg
sodium percarbonate	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	1034 mg/kg
sodium dodecylbenzene sulfonate	LD50 Dermal	Rat	>2000 mg/kg
	LD50 Oral	Rat	1090 mg/kg

### Chronic toxicity

<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: 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 carbonate	Acute EC50 200 mg/l	Daphnia	48 hours
disodium metasilicate	Acute LC50 210 mg/l	Fish	96 hours
alcohols, c12-16, ethoxylated	Acute LC50 1.5 mg/l	Fish	96 hours
sodium percarbonate	Acute EC50 4.9 mg/l	Daphnia	48 hours
sodium dodecylbenzene sulfonate	Acute LC50 3.2 mg/l	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

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

## 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

<b>DOT Classification</b>	UN3253
<b>DOT Proper shipping name</b>	Disodium trioxosilicate mixture
<b>Class</b>	8
<b>Packing group</b>	III

### IMO/IMDG

<b>IMO/IMDG Classification</b>	UN3253
<b>IMO/IMDG Proper shipping name</b>	DISODIUM TRIOXOSILICATE MIXTURE

## Section 14. Transport information

Class 8  
 Packing group III

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

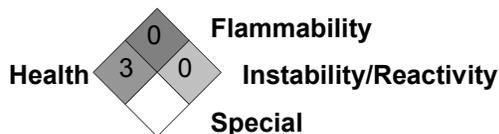
## Section 16. Other information

Product AS SOLD

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

Health	*	3
Flammability		0
Physical hazards		0

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



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 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.

**Product AT USE DILUTION**

Health	0
Flammability	0
Physical hazards	0

0 Flammability  
0 Health 0 Instability/Reactivity  
  Special