



# Safety data sheet

## Plant Soap - PS1

### 1. Identification of the Substance and of the Supplier

|                              |  |
|------------------------------|--|
| <b>Product Name</b>          | Plant Soap - PS1   |
| <b>Recommended Use</b>       | Surfactants  |
| <b>Manufacturer/Supplier</b> | Bioforce Limited   |
| <b>Address</b>               | 72 Sim Road, Karaka<br>Auckland, New Zealand                       |
| <b>Telephone/Fax</b>         | (+64)09 294-6973(Operated Monday to Friday 8am to 5pm)             |
| <b>Emergency Number</b>      | 0800 764 766 (National Poisons Centre)                             |
| <b>Email</b>                 | <a href="mailto:office@bioforce.net.nz">office@bioforce.net.nz</a> |
| <b>Date of preparation</b>   | 12 <sup>th</sup> of December 2017                                  |

Please read the Material Safety Data Sheet completely before using this product. Do not use the product until all safety directions have been read and understood.

### 2. Hazard identification

**Classification:** Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 (New Zealand)

**Subclasses:** Subclass 6.3 Category A - Substance which are skin irritants  
Subclass 8.3 Category A - Substance corrosive to ocular tissue  
Subclass 9.1 Category D - Substance that are ecotoxic to aquatic environment

### 3. Composition/information on ingredients

#### Chemical nature

Aqueous solution based on: Alkylpolyglycoside C10-16, Alkyl polyglycoside C8-10

#### Hazardous ingredients

Alkyl polyglycoside C8-10

Content (W/W):  $\geq 30\%$  -  $< 50\%$

CAS Number: 68515-73-1

EC-Number: 500-220-1

Hazard symbol(s): Xi

R-phrase(s): 41

Alkylpolyglycoside C10-16

Content (W/W):  $\geq 20\%$  -  $< 30\%$

CAS Number: 110615-47-9

Hazard symbol(s): Xi

R-phrase(s): 38, 41

The wording of the hazard symbols and R-phrases is specified in section 16 if dangerous ingredients are mentioned.

### 4. First-Aid Measures

**General advice:** If adverse health effects develop seek medical attention.

**If inhaled:** not relevant.

**On skin contact:** After contact with skin, wash immediately with plenty of water.

**On contact with eyes:** Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

**On ingestion:** Rinse mouth and then drink 200-300 ml of water.

**Note to physician:**

### 5. Fire-Fighting Measures

**Suitable extinguishing media:** water spray, carbon dioxide, dry powder, foam

**Specific hazards:** harmful vapours Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

**Further information:** Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

## 6. Accidental Release Measures

Personal precautions: Use personal protective clothing.

Environmental precautions: Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up: For small amounts: Pick up with suitable absorbent material.  
For large amounts: Dike spillage. Pump off product. Dispose of absorbed material in accordance with regulations.

## 7. Handling and Storage

### Handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion: Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

### Storage

Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Protect from temperatures below 10 °C. Below the temperature limit, the product is no longer pumpable.

### Packaging Materials

High Density polyethylene (HDPE).

## 8. Exposure controls and personal protection

### Components with occupational exposure limits

No exposure standard allocated.

### Personal protective equipment

Respiratory protection:

Respiratory protection not required.

Hand protection:

Suitable are protective gloves. Recommendation nitrile rubber.

Eye protection:

Tightly fitting safety goggles.

Body protection:

When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length gloves and goggles.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

|                            |                               |
|----------------------------|-------------------------------|
| Form:                      | Liquid                        |
| Colour:                    | Yellowish                     |
| Odour:                     | Slight odour                  |
| pH value:                  | 11.5 - 12.5                   |
| Boiling temperature:       | > 212 °C                      |
| Flash point:               | 215 °C (DIN ISO 2592)         |
| Flammability:              | Not flammable                 |
| Ignition temperature:      | Not determined                |
| Self ignition:             | Not applicable                |
| Explosion hazard:          | Not explosive                 |
| Fire promoting properties: | Not fire-propagating          |
| Vapour pressure:           | Not determined                |
| Density:                   | 1.1 g/cm <sup>3</sup> (25 °C) |
| Solubility in water:       | Soluble                       |

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section. No further information available.

## 10. Stability and Reactivity

|                                   |  |
|-----------------------------------|--|
| Conditions to avoid:              | See MSDS section 7 - Handling and storage.   |
| Thermal decomposition:            | No decomposition if stored and handled as prescribed/indicated.                    |
| Substances to avoid:              | No substances known that should be avoided.  |
| Hazardous reactions:              | None if used for intended purpose.   |
| Hazardous decomposition products: | No hazardous decomposition products if stored and handled as prescribed/indicated. |

## 11. Toxicological Information

### Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single skin contact.

Virtually nontoxic after a single ingestion.

LD50 (oral): > 2,000 mg/kg

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

LD50 (dermal): > 2,000 mg/kg (OECD Guideline 402)

### **Irritation**

Assessment of irritating effects:

May cause severe damage to the eyes.

Skin contact causes irritation.

Primary skin irritation rabbit: Irritant. (OECD Guideline 404)

Primary irritations of the mucous membrane rabbit: Severely irritating. (OECD Guideline 405)

### **Assessment other acute effects**

Assessment other acute effects: Based on available Data, the classification criteria are not met.

### **Sensitization**

Assessment of sensitization: No sensitizing effect.

### **Chronic toxicity**

Assessment of teratogenicity: No data was available concerning toxicity to development.

### **Other relevant toxicity information**

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

## **12. Ecological Information**

### **Ecotoxicity**

Assessment of aquatic toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish: LC50 > 10 - 100 mg/l (DIN EN ISO 7346-2)

Microorganisms/Effect on activated sludge: EC0 > 100 mg/l (OECD Guideline 209)

### **Mobility**

Assessment transport between environmental compartments: not applicable

## **13. Disposal Considerations**

Must be disposed of or incinerated in accordance with local regulations.

## **14. Transport Information**

Domestic transport: Not classified as a dangerous good under transport regulations

|                         |  |
|-------------------------|--|
| Sea transport IMDG      | Not classified as a dangerous good under transport regulations |
| Air transport IATA/ICAO | Not classified as a dangerous good under transport regulations |

## 15. Regulatory Information

**Classification:** Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 (New Zealand)

**Subclasses:** Subclass 6.3 Category A - Substance which are skin irritants  
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**Hazard determining component(s) for labelling:** ALKYL POLYGLYCOSIDE C8/C10

### Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

### **Registration status:**

NZIOC, NZ released / listed  
GrpStd HSR002503

## 16. Other Information

This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. To the extent permitted by law, users of these information accept that neither the manufacturer, Bioforce Limited as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these information.

Full text of hazard symbols and R-phrases if mentioned as hazardous components in section 3:

|    |                                 |
|----|---------------------------------|
| Xi | Irritant.                       |
| 41 | Risk of serious damage to eyes. |
| 38 | Irritating to skin.             |