

# SAFETY DATA SHEET

### Section 1. Identification of the material and the supplier

ReduClean Product:

Item Code: Product Use:

Detergent to clean removable greenhouses coatings.

For professional use only.

Restriction of Use: Refer to Section 15

**New Zealand Supplier: Horticentre Ltd** Address: 10 Firth Street

Drury, 2113

Telephone: +64 9 294 8453 Fax Number: +64 9 294 7272

New Zealand: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 15 August 2022 v2

#### Section 2. **Hazards Identification**

Classified as hazardous as per EPA Hazardous Substances (Classification) Notice 2020.

EPA Approval Code: Cleaning Products (Corrosive) - HSR002526

### **Pictograms**



Signal Word: DANGER

| GHS Classification and Category | Hazard<br>Code | Hazard Statement                         |
|---------------------------------|----------------|--|
| Corrosive to metals Cat. 1      | H290           | May be corrosive to metals.              |
| Skin corrosion Cat. 1B          | H314           | Causes severe skin burns and eye damage. |
| Serious eye damage Cat. 1       | H318           | Causes serious eye damage.               |

| <b>Prevention Code</b> | Prevention Statement                               |
|------------------------|--|
| P102                   | Keep out of reach of children.                     |
| P103                   | Read label before use.                             |
| P234                   | Keep only in original container.                   |
| P260                   | Do not breathe fumes, mist, vapours or spray.      |
| P264                   | Wash hands thoroughly after handling.              |
| P280                   | Wear protective clothing as detailed in Section 8. |

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| Response Code | Response Statement   |
|---------------|--|
| P101          | If medical advice is needed, have product container or label at hand.          |
| P310          | Immediately call a POISON CENTER or doctor/physician.                          |
| P363          | Wash contaminated clothing before reuse.                                       |
| P390          | Absorb spillage to prevent material damage.                                    |
| P301 +        | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.                             |
| P330+P331     |  |
| P303 +        | IF ON SKIN (or hair): Remove/Take off immediately all contaminated             |
| P361+P353     | clothing. Rinse skin with water/shower.  |
| P304 + P340   | IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in |
|               | a position comfortable for breathing.  |
| P305 +        | IF IN EYES: Rinse cautiously with water for several minutes. Remove            |
| P351+P338     | contact lenses, if present and easy to do. Continue rinsing.                   |

| <b>Storage Code</b> | Storage Statement   |
|---------------------|---|
| P405                | Store locked up.  |
| P406                | Store in corrosive resistant/ container with a resistant inner liner. |

| Disposal Code | Disposal Statement                                       |
|---------------|--|
| P501          | Dispose of according to Local Regulations or Authorities |

### Section 3. **Composition / Information on Ingredients**

| Ingredients                    | Wt%     | CAS NUMBER. |
|--------------------------------|---------|-------------|
| Sodium dodecylbenzenesulfonate | 1 - 2.5 | 25155-30-0  |
| Sodium hydroxide, caustic soda | 0.5 - 2 | 1310-73-2   |
| Sodium p-cumenesulphonate      | 1 - 2.5 | 15763-76-5  |
| Non-hazardous ingredients      | To bal  |             |

#### **First Aid Measures** Section 4.

### Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediately call a POISON

CENTER or doctor/physician.

If on Skin Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower. Immediately call a POISON CENTER or doctor/physician.

If Swallowed If swallowed, rinse mouth with water (only if the person is conscious).

Drink plenty of water. Get medical advice/attention. Rinse mouth. Do NOT

induce vomiting. Obtain emergency medical attention.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if

breathing becomes difficult.

### Most important symptoms and effects, both acute and delayed

Symptoms:

Inhalation: Not applicable. Ingested: Not applicable. Skin: Causes skin burns.

Eye: Causes serious eye damage.

### Section 5. **Fire Fighting Measures**

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| Precautions for firefighters and    | Self-contained breathing apparatus. Protective clothing. Do not enter fire area without proper protective equipment, including respiratory |
|-------------------------------------|--|
| Extinguishing media                 | Dry powder. Carbon dioxide. Water spray. Sand.  Do not use a high water jet or heavy water stream.   |
| Suitable                            | Water spray. Carbon dioxide (CO2). Foam. Extinguishing powder. Foam.   |
| Hazards from decomposition products | Ammonia solution. Nitrogen oxides (NOx). hydrofluoric acid.  |
| Hazard Type                         | Non Flammable  |

### Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel. Ventilate area.

Wash away spilled liquid with plenty of water. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Do not allow uncontrolled leakage of product into the environment. Dilute with a large quantity of water. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Dispose of according to Local regulations.

### Section 7. Handling and Storage

### **Precautions for Handling:**

- Keep out of reach of children.
- Read label before use.
- Do not breathe fumes, vapours or mist.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Provide good ventilation in process area to prevent formation of vapour.
- Wear protective clothing.

### **Precautions for Storage:**

- Do not store together with acids, oxidizing agents, strong bases and strong acids.
- · Keep out of reach of children.
- Keep only in the original container in a cool well ventilated place.
- Keep container closed when not in use.
- Keep out of frost.
- · Avoid sources of ignition and direct sunlight.
- Suitable Packaging materials: Polyethylene. Stainless steel. Unsuitable materials: Tin. Lead. Copper (Cu). Avoid aluminium, magnesium and zinc.

### Section 8 Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL Substance ppm mg/m³ ppm mg/m³

Sodium hydroxide [1310-73-2] Ceiling 2 mg/m3

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

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## **Engineering Controls**

Ensure adequate ventilation is available

## **Personal Protection Equipment**



| Eyes        | Wear goggles with side shields. Avoid wearing contact lenses.  |
|-------------|--|
| Hands and   | Nitrile: penetration time> 480 '; thickness> 0.35 mm. Chemical resistant   |
| Skin        | PVC gloves (to European standard EN 374 or equivalent). PVC: penetration time > 480 ', thickness > 0.35 mm; Butylrubber: penetration time > 480 ', thickness > 0.5 mm; Natural rubber: penetration time > 480, thickness > 0.5 mm; Natural rubber: pen |
|             | 0.5 mm. Wear protective gloves. Wear shoes (boots) of Neoprene. Corrosion proof clothing. Wear suitable protective clothing.   |
| Respiratory | Avoid inhalation of vapours. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Combined gas/dust mask with filter type B/P2. Wear appropriate mask.   |
| General     | Do not get in eyes, on skin, or on clothing. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke during use.   |

### **Physical and Chemical Properties Section 9**

| Appearance               | Colourless to slight yellow liquid               |
|--------------------------|--|
| Odour                    | Characteristic                                   |
| Odour Threshold          | Not available                                    |
| pH                       | 13   |
| <b>Boiling Point</b>     | Not available                                    |
| Melting Point            | Not available                                    |
| Freezing Point           | Not available                                    |
| Flash Point              | Not available                                    |
| Flammability             | Not available                                    |
| Upper and Lower          | Not available                                    |
| <b>Explosive Limits</b>  |  |
| Vapour Pressure          | Not available                                    |
| Density                  | 1.1 g/cm3  |
| Bulk Density             | Not available                                    |
| Solubilities             | Completely soluble                               |
| Partition Coefficient:   | Not available                                    |
| Auto-ignition            | Not available                                    |
| Temperature              |  |
| Decomposition            | Not available                                    |
| Temperature              |  |
| Viscosity, dynamic       | 1600 mPa.s Brookfield LV, spindle 3, 5 rpm, 20°C |
| Particle Characteristics | Not available                                    |

# Section 10. Stability and Reactivity

| Stability of Substance         | This product is stable under normal conditions.                 |  |
|--------------------------------|---|--|
| Reactivity                     | Acids. ammonium salts. halogenated hydrocarbons. nitrogen       |  |
| _                              | compounds.  |  |
| Conditions to Avoid            | Avoid high temperatures. Direct sunlight. Extremely high or low |  |
|                                | temperatures.   |  |
| Incompatible Materials         | Oxidizing agents. Strong acids. Strong bases.                   |  |
| <b>Hazardous Decomposition</b> | n Carbon oxides (CO, CO2). Sulphur dioxide. Fume. Carbon        |  |
| Products                       | monoxide. Carbon dioxide.                                       |  |

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# Section 11 Toxicological Information

# **Acute Effects:**

| Swallowed  | Not applicable.            |
|------------|----------------------------|
| Dermal     | Not applicable.            |
| Inhalation | Not applicable.            |
| Eye        | Causes serious eye damage. |
| Skin       | Causes severe skin burns.  |

### **Chronic Effects:**

| Carcinogenicity | Not applicable. |
|-----------------|-----------------|
| Reproductive    | Not applicable. |
| Toxicity        |                 |
| Germ Cell       | Not applicable. |
| Mutagenicity    |                 |
| Aspiration      | Not applicable. |
| STOT/SE         | Not applicable. |
| STOT/RE         | Not applicable. |

### **Section 12. Ecotoxicological Information**

This product is not hazardous to the environment.

| Sodium dodecylbenzenesulfonate (25155-30-0) |                               |  |
|---|-------------------------------|--|
| LOEC (acute)                                | 5,6 mg/l Oncorhynchus kisutch |  |
| NOEC (acute)                                | 3,1 mg/l Oncorhynchus kisutch |  |
| Sodium p-cumenesulphonate (15763-76-5)      |                               |  |
| EC50 Daphnia 1                              | 100 mg/l                      |  |

| Persistence and degradability | Product is biodegradable. Not established.                    |
|-------------------------------|---|
| Bioaccumulation               | No indication of bio-accumulation potential. Not established. |
| Mobility in Soil              | No data available.  |
| Other adverse effects         | No data available.  |

Do not allow to enter waterways.

### **Section 13. Disposal Considerations**

**Disposal Method:** Triple rinse container and dispose of as required by local regulations.

Waste product and contaminated spill media should be placed into a separate suitable waste container for disposal. Contact manufacturer for

further advice.

**Precautions:** Ensure waste containers holding waste product or contaminated spill

media are properly sealable and labelled "Hazardous Waste - Corrosive"

**Disposal methods to avoid:** Avoid releasing the product into the environment, down

sewers or into waterways where possible.

### Section 14 Transport Information

### This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2020



Road and Rail Transport

UN No: 1824

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Class-primary 8 Packing Group II

Proper Shipping Name: SODIUM HYDROXIDE SOLUTION

Air Transport

UN No: 1824 Class-primary 8 Packing Group II

Proper Shipping Name: SODIUM HYDROXIDE SOLUTION

**Marine Transport** 

UN No: 1824 Class-primary 8 Packing Group II

Proper Shipping Name: SODIUM HYDROXIDE SOLUTION

### **DG Exemption:**

Limited quantities exemption for <1L

### Section 15 Regulatory Information

EPA Approval Code: Cleaning Products (Corrosive) - HSR002526

**Trigger quantities:** 

| gg                          |                  |  |
|-----------------------------|------------------|--|
| HSWA & EPA Controls         | Trigger Quantity |  |
| Certified Handler           | Not required     |  |
| Location Certificate        | 250kg            |  |
| Tracking Trigger Quantities | Not required     |  |
| Signage Trigger Quantities  | 250kg            |  |
| Emergency Response Plan     | 1000kg           |  |
| Secondary Containment       | 1000kg           |  |
| Restriction of Use          | None             |  |

### Section 16 Other Information

Glossary

Cat Category

EC50 Median effective concentration.
EEL Environmental Exposure Limit.
EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

LC<sub>50</sub> Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD<sub>50</sub> Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level WES Workplace Exposure Limit

### References:

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
- 2. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2020
- 5. HSW (Hazardous Substances) Regulations 2017

### Disclaimer

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The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the New Zealand distributor, if further information is required.

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