

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 01/06/2015 Revision date: 02/01/2017 : Version: 1.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : ReduClean Product form : Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

Use of the substance/mixture : Detergent to clean removable greenhouses coatings.

1.2.2. Uses advised against

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

 Met. Corr. 1
 H290

 Skin Corr. 1A
 H314

Full text of classification categories and H statements : see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) : Danger

Hazardous ingredients : sodium hydroxide, caustic soda Hazard statements (CLP) : H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

Precautionary statements (CLP) : P260 - Do not breathe vapours, mist, spray

P264 - Wash Wash hands and other exposed areas with mild soap and water before eating,

drinking or smoking and when leaving work thoroughly after handling

P280 - Wear protective gloves, protective clothing, face protection, eye protection P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

2.3. Other hazards

No additional information available

02/01/2018 EN (English) 1/7

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium dodecylbenzenesulfonate	(CAS No) 25155-30-0 (EC no) 246-680-4	1-2.5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
sodium hydroxide, caustic soda	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6	0.5-2	Skin Corr. 1A, H314
Sodium p-cumenesulphonate	(CAS No) 15763-76-5 (EC no) 239-854-6	1-2.5	Eye Irrit. 2, H319

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow breathing of fresh air. Allow the victim to rest.

First-aid measures after skin contact

: After contact with skin, take off immediately all contaminated clothing, and wash immediately

with plenty of water and soap. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Rinse opened eye for several minutes under

running water. Then consult doctor. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). If

: 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.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact : Skin irritation. Symptoms/injuries after skin contact. Redness, pain. Causes skin irritation.

Symptoms/injuries after eye contact : May cause eye irritation. Symptoms/injuries after eye contact. Pain. Redness. Blurred vision.

Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Carbon dioxide (CO2). Foam. Extinguishing powder. Foam. Dry powder. Carbon

dioxide. Water spray. Sand.

Unsuitable extinguishing media : High power water jet. Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Self-contained breathing apparatus. Protective clothing. Do not enter fire area without proper

protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid all

contact with skin, eyes, or clothing. Wear suitable protective clothing. Warning! Product may

cause floors to be slippery.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

02/01/2018 EN (English) 2/7

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Emergency procedures : Ventilate area.

6.2. Environmental precautions

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.

6.3. Methods and material for containment and cleaning up

For containment : Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable

disposal containers.

Methods for cleaning up : 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.

6.4. Reference to other sections

Reference to other sections (8, 13). See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Do not mix with other chemicals. Do not drink, eat or smoke

in the workplace. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to

prevent formation of vapour.

Hygiene measures : Wash Hands and forearms, Skin thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Keep in a cool place. Keep out of frost. Store in original

container. Keep only in the original container in a cool well ventilated place. Keep container

closed when not in use

Incompatible products : Acids. Oxidizing agents. Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Packaging materials : Suitable material: Polyethylene. Stainless steel. Unsuitable materials: Tin. Lead. Copper (Cu).

Avoid aluminium, magnesium and zinc.

7.3. Specific end use(s)

No specific measures are necessary.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

sodium hydroxide, caustic soda (1310-73-2)		
United Kingdom	WEL TWA (mg/m³)	2 mg/m³
United Kingdom	Remark (WEL)	EH40/2005

8.2. Exposure controls

Personal protective equipment:

Combined gas/dust mask with filter type B/P2. Corrosionproof clothing. Gloves. Protective goggles. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and at the end of work. Avoid all unnecessary exposure.

Hand protection:

Nitrile: penetration time> 480 '; thickness> 0.35 mm. Chemical resistant PVC gloves (to European standard EN 374 or equivalent). PVC: penetration time > 480 ', thickness > 0.5 mm; Natural rubber: penetration time > 480, thickness> 0.5 mm. Wear protective gloves

Eve protection:

Wear eye protection/face protection. Chemical goggles or safety glasses

Skin and body protection:

Wear shoes (boots) of Neoprene. Corrosionproof clothing. Wear suitable protective clothing

Respiratory protection:

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









02/01/2018 EN (English) 3/7

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Other information

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : colourless to slightly yellow.

Odour : characteristic.
Odour threshold : No data available

pH : 13

: No data available Relative evaporation rate (butylacetate=1) Melting point : No data available : No data available Freezing point Boiling point : No data available · No data available Flash point Auto-ignition temperature : No data available Decomposition temperature not determined Flammability (solid, gas) Non flammable. : No data available Vapour pressure Relative vapour density at 20 °C : No data available Relative density : No data available Density : 1.1 a/cm³

Solubility : completely soluble.

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : 1600 mPa.s Brookfield LV, spindle 3, 5 rpm, 20°C

Explosive properties : None.

Oxidising properties : No data available Explosive limits : No data available

9.2. Other information

Other properties : None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with: Acids. ammonium salts. halogenated hydrocarbons. nitrogen compounds.

10.2. Chemical stability

Stable under normal conditions. Not established.

10.3. Possibility of hazardous reactions

ammonium salts. Reacts with most metals in the presence of moisture, liberating hydrogen, an extremely flammable gas. Not established.

10.4. Conditions to avoid

Avoid high temperatures. Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO2). Sulphur dioxide. fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Sodium dodecylbenzenesulfonate (25155-30-0)	
LD50 oral rat	438 mg/kg
ATE oral	438 mg/kg bodyweight
Sodium n cumanoculabanete (45752 76 E)	

Sodium p-cumenesulphonate (15763-76-5)	
LD50 oral rat	> 7200 mg/kg

02/01/2018 EN (English) 4/7

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 13

Serious eye damage/irritation Serious eye damage, category 1, implicit

pH: 13

Respiratory or skin sensitisation Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

 Not classified Carcinogenicity

Based on available data, the classification criteria are not met

: Not classified Reproductive toxicity

Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated

exposure)

Based on available data, the classification criteria are not met

Aspiration hazard Not classified

Based on available data, the classification criteria are not met

Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. **Toxicity**

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

12.2. Persistence and degradability

ReduClean	
Persistence and degradability	Product is biodegradable. Not established.

12.3. **Bioaccumulative potential**

ReduClean	
Bioaccumulative potential No indication of bio-accumulation potential. Not established.	
Sodium dodecylbenzenesulfonate (25155-30-0)	
BCF fish 1	0,064 mg/l Lepomis Macrochirus
Bioconcentration factor (BCF REACH)	220

Mobility in soil

No additional information available

Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

Waste treatment methods

Product/Packaging disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations.

Additional information

Contaminated packing must be completely emptied and can be re-used following appropriate cleaning. This container is intended only for this product. Containers, or internal liners coming from a container, having contained this product are also considered as hazardous wastes. Empty containers can be dumped according to local legislation.

: Avoid release to the environment Ecology - waste materials

02/01/2018 EN (English) 5/7

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 1824 UN-No. (IATA) : 1824 UN-No. (IMDG) : 1824 UN-No. (ADN) : 1824

14.2. UN proper shipping name

Proper Shipping Name (ADR) : SODIUM HYDROXIDE SOLUTION

Transport document description (ADR) : UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III, (E)

14.3. Transport hazard class(es)

 Class (ADR)
 : 8

 Classification code (ADR)
 : C5

 Class (IATA)
 : 8

 Class (IMDG)
 : 8

 Class (ADN)
 : 8

 Danger labels (ADR)
 : 8



14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 80
Classification code (ADR) : C5

Orange plates

80 1824

Transport category (ADR) : 3
Tunnel restriction code (ADR) : E
Limited quantities (ADR) : 5I
LQ : LQ07
Excepted quantities (ADR) : E1
EAC code : 2R

14.6.2. Transport by sea

MFAG-No : 154

14.6.3. Air transport

No additional information available

14.6.4. Inland waterway transport

Carriage prohibited (ADN) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

02/01/2018 EN (English) 6/7

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

Chemical safety assessments for substances in this preparation were not carried out No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Revision: *.

Data sources	: REGULATION (EC) № 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE
	COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and
	mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending
	Regulation (EC) No 1907/2006.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging and in line with the expectations of a professional user.

Other information : REACH Disclaimer:

This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number). DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. None.

Full text of R-, H- and EUH-statements:

Tail text of IV, IT and EoT statements.	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation

SDS_EU_Mardenkro (REACH bijlageII)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

02/01/2018 EN (English) 7/7