

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

1.1. Product identifier

Product form : Mixture

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

1.2.1. Relevant identified uses

Use of the substance/preparation : Shading material for horticultural greenhouses.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Mardenkro North America Ltd.
47341 Hope River Road
Chilliwack, BC Canada
T 604-703-1103 - F 604-703-1104
Peter@mardenkro.com - www.mardenkro.com

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
NORTH AMERICA	CANUTEC		613-996-6666

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

Adverse physicochemical, human health and environmental effects

Not applicable

2.2. Label elements

Labelling according to Directive 67/548/EEC or 1999/45/EC

Not applicable

2.3. Other hazards

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : The preparation contains a high amount Calcium carbonate.
 First-aid measures after inhalation : Assure fresh air breathing.
 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.
 First-aid measures after eye contact : Rinse opened eye for several minutes under running water. Then consult doctor.
 First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Drink plenty of water. Get medical advice/attention.

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

Symptoms/injuries after skin contact : Skin irritation. Symptoms include : Redness, pain.
 Symptoms/injuries after eye contact : May cause eye irritation. Symptoms include : Redness.
 Symptoms/injuries after ingestion : Abdominal pain, nausea.

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

Not applicable

ReduSol

Safety Data Sheet

according to Regulation (EC) No. 453/2010

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Carbon dioxide (CO₂). Foam. Extinguishing powder.
Unsuitable extinguishing media : High power water jet.

5.2. Special hazards arising from the substance or mixture

Reactivity : Stable under normal conditions.

5.3. Advice for firefighters

Protection during firefighting : Self-contained breathing apparatus. Protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Wear suitable protective clothing.

6.1.1. For non-emergency personnel

No additional information

6.1.2. For emergency responders

No additional information

6.2. Environmental precautions

Do not allow uncontrolled leakage of product into the environment.

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.

6.4. Reference to other sections

Reference to other sections (8, 13).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

No specific measures are necessary.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment : Protective goggles.



Hand protection : Gloves.
Eye protection : Wear eye protection/face protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : cloudy.
Colour : white.
Odour : characteristic.
Odour threshold : No data available
pH : ~ 9
Relative evaporation rate (butylacetate=1) : No data available
Melting point : -4 °C
Freezing point : No data available

ReduSol

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Boiling point	: 100 °C
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: not determined
Flammability (solid, gas)	: No data available
Vapour pressure	: (at 20 °C)
Relative vapour density at 20 °C	: No data available
Relative density	: 1,4
Solubility	: In water, the material disperses. insoluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 35 Pa.s
Explosive properties	: None.
Oxidising properties	: No data available
Explosion limits	: No data available

9.2. Other information

Other properties : None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Strong acid.

10.4. Conditions to avoid

Not applicable

10.5. Incompatible materials

Not applicable

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Irritation	: Not classified pH: ~ 9
Corrosivity	: Not classified pH: ~ 9
Sensitisation	: Not classified
Repeated dose toxicity	: Not classified
Carcinogenicity	: Not classified
Mutagenicity	: Not classified
Toxicity for reproduction	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

ReduSol	
Persistence and degradability	No information available.

12.3. Bioaccumulative potential

ReduSol	
Bioaccumulative potential	No bioaccumulation data available.

ReduSol

Safety Data Sheet

according to Regulation (EC) No. 453/2010

12.4. Mobility in soil

ReduSol

Ecology - soil	No information available.
----------------	---------------------------

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: 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.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

No dangerous good in sense of transport regulations.

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : No dangerous good in sense of transport regulations.

14.6.1. Overland transport

Transport regulations (ADR) : Not subject

14.6.2. Transport by sea

Transport regulations (IMDG) : Not subject

14.6.3. Air transport

Transport regulations (ICAO) : Not subject

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

No REACH Annex XVII restrictions
Contains no REACH candidate substance

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

SECTION 16: Other information

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

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.

SDS EU (REACH Annex II)

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.