



SAFETY DATA SHEET

Dechlorinating Agent

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

1.1. Product identifier

Product name Dechlorinating Agent (Sodium Ascorbate)

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

Identified uses Water dechlorination

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier

PlantWorks Ltd.
Unit 930, Cornforth Drive
Kent Science Park
Sittingbourne, Kent
ME9 8PX

1.4. Emergency telephone number

Emergency telephone +44 (0)1795 411527 (Mon-Fri 9am-5pm).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Pictogram Not Required

Precautionary statements P102 Keep out of reach of children.
P264 Wash contaminated skin thoroughly after handling.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

Water	
CAS number: 134-03-2	>99%
Substance with National workplace exposure limits	
Classification Not Classified	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information medical	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the personnel.
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration
Ingestion	Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.
Skin contact	Rinse with plenty of water or at least 15 min. Remove contaminated clothing and wash before reuse. If symptoms arise, seek medical attention.
Eye contact	Flush eyes with water as a precaution.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

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

General Information: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

Notes for the doctor No data available.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media None known.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Carbon oxides, Sodium oxides.

5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Special protective equipment Self-contained breathing apparatus and full protective body clothing must be worn in case of fire.

SECTION 6: Accidental release measures6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

6.2. Environmental precautions

Environmental precautions No special environmental precautions required.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Sweep up and shovel. Keep in suitable, closed containers for disposal

6.4. Reference to other sections

Reference to other sections For waste disposal, see Section 13.

SECTION 7: Handling and storage7.1. Precautions for safe handling

Usage precautions Keep out of reach of children. Read and follow manufacturer's recommendations. Keep away from food, drink and animal feeding stuffs. Wear protective clothing as described in Section 8 of this safety data sheet. Keep pack tightly sealed when not in use. Avoid prolonged contact with metals.

Advice on general occupational hygiene Wash skin thoroughly after handling. Take off contaminated clothing. Wash contaminated clothing before reuse.

SECTION 8: Exposure Controls/personal protection8.1. Control parameters

Occupational exposure limits Components with workplace control parameters

8.2. Exposure controls

Appropriate engineering controls Provide adequate ventilation.

Eye/face protection Avoid contact with eyes.

Hand protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Hygiene measures Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

Respiratory protection Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).

Environmental exposure controls Keep container tightly sealed when not in use.

SECTION 9: Physical and Chemical Properties9.1. Information on basic physical and chemical properties

Appearance	Powder
Colour	Colourless
Odour	Slight
Odour threshold	Not determined
pH	7.0 – 8.0 (in water)
Melting point	~ 220.
Initial boiling point and range	ca.233 °C – OCED Test Guidline 103.
Flash point	Not applicable.
Evaporation rate	No data available
Upper/lower flammability or explosive limits	No data available

Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility(ies)	642,6 g/l at 20 °C-OECD Test Guideline 105.
Partition coefficient	log Pow: < -4,2 at 21,9 °C.
Auto-ignition temperature	No data available.
Decomposition Temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available
Oxidising properties	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No data available.

10.2. Chemical stability

Stability Stable under recommended storage conditions

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents, strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition Products None Hazardous decomposition products formed under fire conditions.-Carbon oxides, Sodium oxides. In the event of fire: see section 5.

SECTION 11: Toxicological information

11.1 Information on Toxicological effects Products not classified. Unlikely to be hazardous under normal conditions to use.

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitisation	in vivo assay-Mouse. Did not cause sensitisation on laboratory animals (OECD Test Guideline 429).
Germ cell mutagenicity	No data available
Carcinogenicity	IARC:No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity – single exposure	No data available
Specific target organ toxicity – repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

<u>12.1. Toxicity</u>	No data available
<u>12.2. Persistence and degradability</u>	No data available.
<u>12.3. Bioaccumulative potential</u>	No data available

SECTION 13: Disposal considerations

Product	Observe Local Authority or licensed waste disposal contractor
Packaging	Treat as industrial waste

SECTION 14: Transport information

General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
<u>14.1. UN number</u>	N/A
<u>14.2. UN proper shipping name</u>	N/A
<u>14.3. Transport hazard class(es)</u>	No transport warning sign required
<u>14.4. Packing group</u>	Not applicable
<u>14.5. Environmentally hazardous</u>	None
<u>14.6. Special precautions for user</u>	N/A
<u>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</u>	N/A

SECTION 15: Regulatory information15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Commission Regulation (EU) No 2015/830 of 28 May 2015.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

SECTION 16: Other information

Key literature references European Chemicals Agency <http://echa.europa.eu/>

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.