

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

1.1: Product Identifier

Trade name: Steric P DS

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

Registered uses: Fertiliser
 Uses advised against: None known

1.3: Details of the supplier of the safety data sheet

Company name: Verdesian Life Sciences LLC
 1001 Winstead Drive
 Cary
 NC-27513
 USA
 Telephone: +1 919 825 1901
 European contact name: Verdesian Life Sciences Europe Ltd
 Address: 7 Rotherbrook Court
 Bedford Road
 Petersfield GU32 3QG
 UK
 Telephone: +44 (0)1730 720100
 Homepage: www.vlsci.com

1.4: Emergency telephone number

Emergency telephone: +44 1235 239670

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification under CLP: Eye irritant 2: H319

2.2 Label Elements (In compliance with EC Regulation No. 1272/2008 (CLP), as amended)

Hazard pictograms:



Signal word: Warning

H-Statements

H319	Causes serious eye irritation
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Precautionary-Statements

P280	Wear protective gloves/eye protection/face protection.
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P264	Wash hands 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.

2.3 Other hazards

Further hazards were not determined with the current level of knowledge.

Section 3: Composition/information on ingredients

Product type: This product is a mixture.

CAS No.	EEC No.	Substance Name	Classification*	Range (%)
77-92-9	201-069-1	Citric acid	Eye Irrit. 2: H319	1-5

*For full text of H statements see Section 16

Section 4: First Aid Measures

4.1 Description of first aid measures

Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. Ensure supply of fresh air. Consult a doctor.
Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to the skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.
Eye contact:	Remove contact lenses, if present and easy to do so. Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion:	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.
Skin contact:	There may be irritation and redness at the site of contact.
Eye contact:	There may be irritation and redness. The eyes may water profusely.
Ingestion:	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Delayed/immediate effects: Immediate effects can be expected after short-term exposure.

4.3 Indication of any immediate medical attention and treatment needed

Immediate/special treatment: Not applicable. Treat symptomatically.

Section 5: Firefighting Measures

5.1 Extinguishing media

Suitable: Foam, dry powder, water spray jet, carbon dioxide.
Unsuitable: Full water jet.

5.2 Special hazards arising from the substance or mixture

Exposure hazards: Risk of formation of toxic pyrolysis products: Carbon monoxide, phosphorous oxides, phosphine, ammonia and carbon dioxide.

5.3 Advice for firefighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin or eyes. Fire residues and contaminated firefighting water must be disposed of in accordance with local regulations.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to Section 8 of the SDS. If outside do not approach from downwind and keep bystanders away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent escape of product. Use personal protective equipment.

6.2 Environmental Precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding to prevent spread over a wide area.

6.3 Methods for cleaning up

Clean-up procedures: Absorb solutions of the product into an absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth). Transfer to a closeable, labelled salvage container for disposal in accordance with local regulations.

6.4 Reference to other sections

Reference to other sections: Refer to Section 8 and 13 of the SDS.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Handling: The normal safety precautions for handling chemicals must be observed. Avoid direct contact with the substance. Use only in well ventilated areas. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Use skin barrier cream.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Store away from incompatible materials (see Section 10, Stability and Reactivity). Keep container tightly closed when not in use. Inspect all incoming containers before storage to ensure that containers are properly labelled and are not damaged.

Suitable packaging: Must only be kept in original packaging.

7.3 Specific end use(s)

Specific end use: See product use, Section 1.2.

<u>Section 8: Exposure controls/personal protection</u>
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8.1 Control parameters

Workplace exposure limits: Contains Calcium Silicate (CAS No.: 1344-95-2) Calcium silicate has an inhalable dust long term exposure limit of 10 mg/m³ and respirable long term exposure limit of 4 mg/m³ in the United Kingdom.

DNEL/PNEC: No data available.

8.2 Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Environmental: Comply with applicable environmental regulations limiting discharge to air, water and soil. Prevent from entering public sewers.

Hand protection: Use impermeable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Respiratory protection: Use self-contained breathing apparatus in the event of aerosol or mist formation.

Thermal hazards: Not applicable.

<u>Section 9: Physical and Chemical Properties</u>

9.1 Information on basic physical and chemical properties

Form/state	Dry Crystals	Explosion limit	No data available
Colour	Tan	Vapour pressure	No data available
Odour	No data available	Vapour density	No data available
Odour threshold	No data available	Relative density	Not applicable
pH	No data available	Solubility in water	Miscible
Melting point	No data available	Part. Coeff. N-octanol/water	No data available
Freezing point	No data available	Auto-ignition temperature	No data available
Initial boiling point	No data available	Decomposition temperature	No data available
Boiling range	100°C	Viscosity	No data available
Flash point	No data available	Explosive properties	No data available
Evaporation rate	No data available	Oxidizing properties	No data available
Flammability	No data available		

Note: Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification

9.2 Other information

Other information: No data available.

Section 10: Stability and Reactivity

10.1 Reactivity

Reactivity: Not dangerous reactions known if used as directed.

10.2 Chemical stability

Chemical stability: Stable under normal ambient conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on reaction with strong oxidisers, strong bases and strong reducers.

10.4 Conditions to avoid

Conditions to avoid: Exposure to air or moisture over prolonged periods.

10.5 Incompatible materials

Materials to avoid: Strong oxidisers, strong bases and strong reducers.

10.6 Hazardous decomposition products

Decomp. Products: Phosphorus oxides, phosphine, sulphur oxides, carbon monoxide, ammonia and carbon dioxide.

Section 11: Toxicological Information

11.1 Acute toxicity

Acute Toxicity	Oral LD ₅₀ > 2000 mg/kg
Eye damage/irritation:	Eye irritant
Skin corrosion/irritation:	Not corrosive/irritant
Respiratory or Skin sensitisation:	Not determined
STOT (single exposure):	Not determined
STOT (repeated):	Not determined
Germ cell mutagenicity:	Not determined
Carcinogenicity:	Not determined
Reproductive and lactation toxicity:	Not determined
Aspiration hazard:	Not determined

General remarks

The product was classified on the basis of calculation procedure of the CLP Regulation. Toxicological data of complete product are not available.

May cause respiratory tract irritation.

Section 12: Ecological Information

12.1 Toxicity

General remarks

The product was classified on the basis of calculation procedure of the CLP Regulation. Ecological data of complete product are not available.

12.2 Persistence and degradability

Persistence/biodegradability: No data available.

12.3 Bio accumulative potential

Bioaccumulative potential: No data available.

12.4 Mobility in soil

Mobility: No data available.

12.5 Results of PBT and vPvB assessment

PBT identification: This product has not been evaluated for PBT/vPvB characteristics.

12.6 Other adverse effects

No information available

Section 13: Disposal Considerations

13.1 Waste treatment methods

Disposal procedure: Transfer to a suitable container and arrange for collection by specialised disposal company.

Recovery operations: Not applicable.

Disposal of packaging: Dispose of as normal industrial waste at an approved site.

N.B.: The users attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport Information

14.1 UN Number

UN number: See Section 14.2 in accordance with UN shipping name.

14.2 UN proper shipping name

Shipping name: Not classified as "dangerous goods".

14.3 Transport hazard classes

Transport class: See Section 14.2 in accordance with UN shipping name.

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14.4 Packing group

Packing group: See Section 14.2 in accordance with UN shipping name.

14.5 Environmental hazards

Environmentally hazardous: See Section 14.2 in accordance with UN shipping name.

14.6 Special precautions for user

Special precautions: No special precautions. See relevant information in Sections 6 to 8.

<u>Section 15: Regulatory Information</u>
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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out for the substances in this mixture.

<u>Section 16: Other Information</u>

Phrases in Sections 2-3: H319 Causes serious eye irritation.

Other information: This safety data sheet is prepared in accordance with Regulation (EC) No. 1907/2006 (REACH) and 1272/2008 (CLP) as amended in each case.

Abbreviations:

- CLP: Classification, Labelling and Packaging.
- DNEL: Derived No Effect Level.
- LD50: Median lethal dose.
- OECD: Organisation for Economic Co-operation and Development.
- PBT: Persistent, Bioaccumulative and Toxic substance.
- PNEC: Predicted No-Effect Concentration.
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals.
- VOC: Volatile Organic Compound.
- vPvB: Very Persistent and very Bioaccumulative.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The company shall not be held liable for any damage resulting from handling or from contact with the above product.