

GeoSIL[®] DS

Material Safety Data Sheet

According to 91/155 EC

Printing Date 17 February, 2010

Reviewed on 17 February, 2010

1. Identification of substance:

Product details:

- Trade Name: **GeoSIL DS**
- Application: **General Purpose Antiviral Surface Disinfectant**
- Manufacturer / Supplier:

GeoSIL Pacific Limited

P.O. Box 513, Shortland St, Auckland 1140, New Zealand

- Emergency information: **Ph: 09 443 6745, Fax: 09473 0703, Mobile: 021 363 630** info@geosil.co.nz

2. Composition / Data on components:

Chemical Characterisation

- Description: Mixture of the substances listed below with harmless additions.
- Active components: **Hydrogen Peroxide 1.5% CAS-No.: 7722-84-1** **Silver 0.003% CAS-No.: 7761-88-8**

Additional information for the wording of the risk phrases refer to section 16.

3. Hazard identification:

Description of dangers: Causes burns. Irritating to respiratory system.

HSNO Classifications: Approved in New Zealand under Group Standard HSR002530 (ERMA NZ)

- 6.3A Skin irritant
- 6.4A Eye irritant
- 6.9B Target organ systemic toxicant (*lung & gastrointestinal tract*)
- 9.1C Aquatic ecotoxicant

Special guidelines concerning dangers to humans and the environment:

- Product is an oxidising agent.
- Danger of decomposition when exposed to heat.
- Risk of decomposition in contact with incompatible substances, e.g. metals, metal ions, alkalis, reducing agents.

4. First Aid Measures:

General information:

- Read label before use. Wash hands after use. No special measures required.
- After inhalation: Supply fresh air. Consult doctor in case of symptoms.
- After skin contact: Rinse with water. The product is generally not a skin irritant.
- After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses. Obtain medical advice.
- After swallowing: Seek immediate medical advice.

5. Fire fighting measures:

Suitable extinguishing agents.

- CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- Protective equipment: No special measures required.

6. Accidental release measure:

- Person-related safety precautions: Not required
- Measures for environmental protection: Dilute with much water.
- Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust.)
- Additional information: No dangerous materials are released.

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Trade Name: GeoSIL DS**7. Handling and storage:****Handling;**

- No special measures required.

Information about protection against explosions and fires:

- The product is not flammable. Keep away from ignition sources.

Storage:

- Requirements to be met by storerooms and containers: No special requirements.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: None

8. Exposure controls and personal protection:

- Additional information about design of technical systems: No further data; see item 7.
- Components with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the compilation were used as basis.
- Personal protection equipment:
- Personal protective and hygienic measures:
The usual precautionary measure should be adhered to general rules for handling chemicals.
- Breathing equipment: Not required.
- Protection of hands:
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material depends on considerations of the penetrations times, rates of diffusion and the degradation.
- Material of gloves:
The selection of the suitable gloves does not depend only on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- Penetration time of glove material:
The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: Safety glasses recommended during refilling.

9. Physical and chemical properties:

- General information

Form:	Fluid
Colour:	Colourless
Odour:	Odourless
- Change in condition:

Melting point / Melting range:	0°C
Boiling point / Boiling range:	100°C
- Flash point: Not applicable.
- Self-inflammability: Product is not self-igniting.
- Danger of explosion: Product is not explosive.
- Vapour pressure: 23 hPa
- Density at 20°C: 1 g/cm³
- Solubility in / Miscibility with water: Fully miscible
- PH value at 20°C: 4
- Solvent content:

Organic solvents:	0.0%
Water:	ca.98.5%

10. Stability and reactivity:

- Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications.
- Dangerous products of decomposition: Oxygen

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Trade Name: GeoSIL DS**11. Toxicological information:**

- Target Organ Systemic Toxicant. (*Lungs & gastrointestinal tract*) May cause damage to organs
- Primary irritant effect:
On the skin: Minor Irritant effect.
On the eye: No irritant effect.
- Sensitisation: No sensitising effect known.

12. Ecological information:

- General notes:
Water hazard class 0 (Self-assessment): Normally not hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage systems.

13. Disposal considerations:

- Product:
Recommendation: Smaller quantities can be disposed of with household garbage.
- Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.
- Recommended cleaning agent: Water, if necessary with cleaning agent.
Can be neutralized with Sodium Bisulphite (NaHSO_3)

14. Transport information

- UN No. 2014
- Land transport ADR/RID (cross border)
- ADR/RID-GGVS/E Class:-
Maritime transport IMDG:
- IMDG Class:
Marine pollutant: No
- Air transport ICAO-TI and IATA-DGR:

15. Regulatory information:

- HSNO approved under group standard approval Cleaning Products (Subsidiary Hazard) Group Standard [HSR002530]
- Designation according to EC guidelines:
Observe the normal safety regulations when handling chemicals.
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous materials (GefStoffV).
- Special designation of certain preparations:
Safety data sheet available for professional users on request.
- Water hazard class 0 (Self-assessment): Normally not hazardous for water

16. Other information

- This data is based on our present information. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
- Relevant R-phrases:
H315 Causes skin irritation
H320 Causes eye irritation
H371 May cause damage to organs
H412 Harmful to aquatic life with long lasting effects
- Department issuing data specification sheet: Environment protection department.