

GeoSIL 150

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 150**
- Application: **General Purpose Antiviral Disinfectant**
- Manufacturer / Supplier:

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

- Emergency information: **Ph: 09 443 6745, Fax: 09 473 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 7.5%** CAS-No.: 7722-84-1 **Silver 0.012%** 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)

- 6.4A Eye irritant
- 6.9B Target organ systemic toxicant (*lung & gastrointestinal tract*)
- 9.1B Aquatic ecotoxicant
- 9.3C Vertebrate 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 copious amount of water.
- Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust.)
- Neutralise with Sodium Bisulphite (NaHSO₃)
- Additional information: No dangerous materials are released.

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Trade Name: GeoSIL150**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 are recommended.

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 at 20°C: 23 hPa
- Density at 20°C: 1.019 g/cm³
- Solubility in / Miscibility with water: Fully miscible
- PH value at 20°C: < 3
- Solvent content:

Organic solvents:	0.0%
Water:	ca.92.5%

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: GeoSIL150**11. Toxicological information:**

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

12. Ecological information:

- General notes:
Aquatic ecotoxicant. Toxic to aquatic life with long lasting effects. Normally not hazardous for water when diluted.
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:
H320 Causes eye irritation
H371 May cause damage to organs
H411 Toxic to aquatic life with long lasting effects
H433 Harmful to terrestrial vertebrates.
- Department issuing data specification sheet: Environment protection department.