

# Material Safety Data Sheet



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## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

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**Product Name** : FILLGEL

**Application** : Mine tailings stabilization accelerator.

**Company** : Minova RSA

**Address** : P.O. Box 52, Isando, 1600.

**Telephone** : (011) 908-1980      **Telefax** : (011) 864-4311

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

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**Composition** : Sodium silicate solution.

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<b>Hazardous Ingredient(s)</b>	<b>Symbol</b>	<b>Risk Phrases</b>	<b>Other Information</b>	<b>%</b>
Sodium Silicate	Xi	R36/38	Cas No: 1334-09-8	>2.5 <50

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All constituents of this product are listed in EINECS (European Inventory of Existing Commercial Chemical Substances) or ELINCS (European List of New Chemical Substances) or are exempt. Refer to Section 8 for Occupational Exposure Limits.

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## 3. HAZARDS IDENTIFICATION

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Irritating to eyes and skin.

**IRRITANT**

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## 4. FIRST AID MEASURES

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**Eyes** : Irrigate immediately with copious quantities of water for several minutes. Obtain medical attention urgently.

**Skin** : Wash thoroughly with soap and water or suitable skin cleanser as soon as possible. Obtain medical attention if irritation persists.

**Inhalation** : Remove from exposure, rest and keep warm and obtain medical attention urgently.

**Ingestion** : Wash out mouth with water and give sips of cold water to soothe the affected parts. **DO NOT** induce vomiting. Obtain medical attention.

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## 5. FIRE FIGHTING MEASURES

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**Suitable Extinguishing Media** : Use water fog to keep containers cool.

**Special Exposure Hazards** : None.

**Special Protective Equipment** : None.

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**6. ACCIDENTAL RELEASE MEASURES**

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- Personal Precautions** : Wear rubber boots in addition to the recommended protective clothing. Wear suitable protective clothing, gloves and eye/face protection. Split product presents a significant slip hazard.
- Environmental Precautions** : Prevent entry into drains, sewers and watercourses.
- Decontamination Procedures** : Soak up with inert absorbent or contained and removed by best available means. Gather into containers.

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**7. HANDLING AND STORAGE**

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- Handling** : Do not eat, drink or smoke whilst using this product. Avoid skin and eye contact.
- Storage** : Protect from frost. Do not store at temperatures above 50°C. Store away from acids.

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**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

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- Occupational Exposure Limits** :- None assigned.
- Engineering Control Measures** : No specific ventilation requirement noted. Local exhaust ventilation is recommended if solution is sprayed or forms an airborne aerosol.
- Personal Protective Equipment** : Avoid skin and eye contact. Impervious gloves (eg PVC). Goggles / Safety Glasses. Approved dust mask. Change contaminated clothing immediately and clean before re-use. An eye wash station must be available.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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- Physical State** : Thin syrup.
- Colour** : Colourless.
- Odour** : Odourless.
- pH (working dilution)** : >11.
- Boiling Point / Range (°C)** : ~100°C.
- Flash Point (closed, °C)** : None.
- Autoflammability (°C)** : Not applicable.
- Oxidising Properties** : Not determined.
- Relative Density (at 20°C)** : 1.40.
- Water Solubility** : Soluble.

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**10. STABILITY AND REACTIVITY**

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- Stability** : Stable.
- Conditions to avoid** : Temperatures (°C) above 50°C.
- Materials to avoid** : Strong acids. Aluminium, zinc and tin and their alloys.
- Hazardous Decomposition Products** : None.

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## 11. TOXICOLOGICAL INFORMATION

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The following toxicological assessment is based on a knowledge of the toxicity of the product's components :  
Expected oral LD50, rat >2g/kg.  
Classified as an eye and skin irritant.

### Health Effects

<b>On Eyes</b>	:	Irritating and may injure eye tissue if not removed promptly.
<b>On Skin</b>	:	Irritation.
<b>By Inhalation</b>	:	Mist and vapours may cause irritation to nose and respiratory tract.
<b>By Ingestion</b>	:	May cause irritation of mouth, throat and digestive tract.
<b>Chronic</b>	:	Prolonged skin contact can result in chemical burns.

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## 12. ECOLOGICAL INFORMATION

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<b>Environmental Assessment</b>	:	Capable of causing harm in biological treatment systems and recommendations for its final disposal must be closely followed.
<b>Mobility</b>	:	Soluble in water.
<b>Persistence and Degradability</b>	:	Inherently biodegradable.
<b>Bioaccumulative Potential</b>	:	Not expected to be bioaccumulative.
<b>Ecotoxicity</b>	:	Expected to be ecotoxic to fish/daphnia/algae.

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## 13. DISPOSAL CONSIDERATIONS

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**Disposal must be in accordance with local and national legislation.**

<b>Unused Product</b>	:	Classified as a special waste. Dispose of through an authorized waste contractor to a licensed site.
<b>Used/Contaminated Product</b>	:	As for Unused product.
<b>Packaging</b>	:	May be steam cleaned and recycled.

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## 14. TRANSPORT INFORMATION

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This product is NOT classified as dangerous for transport.

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## 15. REGULATORY INFORMATION

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<b>Hazard Label Data</b>	:	-
<b>Named Ingredients</b>	:	Sodium Silicate Solution
<b>Symbol(s)</b>	:	Xi
<b>Risk Phrases</b>	:	Irritating to eyes and skin..
<b>Safety Phrases</b>	:	Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye / face protection.
<b>EC Directives</b>	:	Dangerous Substances Directive, 67/548/EEC and adaptations. Dangerous Preparations Directive, 88/379/EEC. Safety Data Sheets Directive, 91/155/EEC.
<b>Statutory Instruments</b>	:	Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regs. 1996 (SI 1092). Health & Safety at Work etc. Act 1974. The Special Waste Regulations 1996 (SI 1972).
<b>Codes of Practice</b>	:	Waste Management. The Duty of Care.

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## 16. OTHER INFORMATION

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Minova RSA is an ISO 9002 accredited company.

The data advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from Minova RSA.

If this product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.