

## MATERIAL SAFETY DATA SHEET

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Date : 30 / 11 / 2008

Version : 6.2

Cancels and replaces version : 6.1

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### 1. Product & company Identification

**Product Name** : TIXOSIL 38A

**Use** : Anti-caking agent.  
(For further information refer to the product technical data sheet)

**Supplier** : Rhodia Silica Korea

**Address** : 587- 37, Hakik-dong, Nam-gu,  
Rhodia Silica Korea Co., Ltd. Incheon Plant , Korea

**Telephone No.(24hrs)** : +82 32 870 6114

**Fax No.** : +82 32 866 9301

**Manufacturing site** : Rhodia Silica Korea

**Address** : 587- 37, Hakik-dong, Nam-gu,  
Rhodia Silica Korea Co., Ltd. Incheon Plant , Korea

**Telephone No.(24hrs)** : +82 32 870 6114

**Fax No.** : + 82 32 866 9301

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### 2. Hazards Identification

**Classification** :

**Classification & specific hazards** : According to EC criteria, this product is not classified as a "hazardous substance".

**Labeling** :

**Pictograph** : No symbol.

**Signal word** : Not applicable.

**Hazard statements** : Not applicable.

**Precautionary statements** : Not applicable.

**Other hazards which do not result in classification** :

**By mechanical effect** : Slightly irritating to eyes, respiratory system and skin.

**By hydroscopic effect** : Slightly irritating to eyes, respiratory system and skin.

No particular fire or explosion hazard.

Electrostatic charges may build up by swirling, pneumatic transport, Pouring.

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### 3. Composition / Information on Ingredients

<b>Common chemical name</b>	: Silicon dioxide
<b>Generic name</b>	: Precipitated amorphous silica
<b>CAS No.</b>	: 112926-00-8 / 7631- 86 – 9 (Old CAS no) EINECS N° : 231-545-4
<b>SiO<sub>2</sub> Content</b>	: 98% min
<b>Formula</b>	: SiO <sub>2</sub> xH <sub>2</sub> O

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### 4. First Aid Measures

<b>Inhalation</b>	: Move to fresh air. Get medical attention for any breathing difficulty.
<b>Skin contact</b>	: Rinse with water. Get medical advice if irritation develops.
<b>Eye contact</b>	: Immediately rinse with plenty of water for at least 15 minutes, while keeping the eyes wide open. Get medical attention immediately.
<b>Ingestion</b>	: Rinse mouth out with water. If large amounts were swallowed, get medical advice.
<b>Protection of first-aiders</b>	: Respiratory protection with particle filter.

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### 5. Fire Fighting Measures

<b>Fire and explosion hazards</b>	: Not considered to be a fire and explosion hazard
<b>Extinguishing media</b>	:
Suitable	: All extinguishing agents can be used.
Not suitable	: None to our knowledge. If there is a fire close by, use suitable extinguishing agents.
<b>Fire fighting</b>	: Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low area
<b>Protection of fire-fighters</b>	: Boots, gloves, goggles.

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### **6. Accident Release Measures**

**Personal precautions**

: Avoid contact with eyes.

Personal Protective Equipment :

- Respiratory protection device with a particle filter
- Protective goggles

**Environmental precautions**

: This product does not present any particular risk for the environment.

**Methods for cleaning up :**

Recovery

: Vacuum up the product.

Cleaning/Decontamination

: Wash non-recoverable reminder with large amount of water.

Disposal

: For disposal of residues refer to section 13.

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### **7. Handling and Storage**

**Handling**

Technical measures

: Dust extraction(suction). Earth the equipment.

Measures

: Avoid the formation of dust, avoid shock and friction.

Safe handling advice

: Avoid the build-up of dust.

**Storage**

Technical measures

: Do not stack the big bags

Storage conditions

Recommended

: Store : Protected from humidity and bad weather condition.

Incompatible products

: Refer to the detailed list of incompatible materials  
(Section 10 Stability/Reactivity)

Packaging

: Product may be packaged in normal commercial packaging.

Packaging materials

: Recommended - Paper, Polypropylen.

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### **8. Exposure controls, personal protection**

**Precautionary statements**

: Wear protective gloves, spectacles and suitable dust mask.

Ground the equipment.

In the event of insufficient ventilation, respiratory protective device with a particle filter.

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### **Control parameters**

Occupational exposure Limits :

France	: Particles stated without any specified effect; Inhalable Particles – VME : 10mg/ m <sup>3</sup> Respirable Particles – VME : 5mg/ m <sup>3</sup>
ACGIH	: Particles (insoluble or poorly soluble) not otherwise specified; Inhalable Particles - TLV (TWA) : 10 mg/ m <sup>3</sup> Respirable Particules - TLV (TWA) : 3 mg/ m <sup>3</sup>
Korea	: TWA - 10 mg/ m <sup>3</sup>
UK	: Amorphous Silica ; WEL : 6mg/ m <sup>3</sup> (8h TWA)- Total inhalable dust. WEL : 2.4mg/ m <sup>3</sup> (8h TWA)- Total respirable dust.
Surveillance procedures	: Monitor the atmosphere at regular intervals.
Engineering measures	: Extract at emission point.

### **Personal Protective Equipment :**

Respiratory protection	: Suitable dust mask ; In the event of insufficient ventilation, respiratory protective device with a particle filter.
Hand protection	: Protective gloves made of rubber.
Eye protection	: Safety glasses.
Collective emergency equipment	: Eye fountain.
Hygiene measures	: Frequently vacuum dust. Wash the floor frequently.
Measures related to the Envnt.	: No particular measures.

## **9. Physical and Chemical properties**

<b>Physical state</b>	: Solid
<b>Odor</b>	: Odorless
<b>Color</b>	: White
<b>Physical form</b>	: Amorphous powder
<b>Taste</b>	: Tasteless
<b>Size</b>	: Approx. 60 µm
<b>Vapor pressure</b>	: Not applicable
<b>Melting point</b>	: > 1700C

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<b>Vapor density</b>	: Not applicable
<b>pH</b>	: 6.0 – 7.0 (Aqueous suspension – 5g/100ml)
<b>Flash point</b>	: Not applicable. (non-flammable solid)
<b>Oxidizing properties</b>	: Non oxidizing material according to EC criteria.
<b>Specific gravity</b>	: Approx. 0.2kg/dm <sup>3</sup> (tamped product)
<b>Solubility :</b>	
In water	: Approximately 100mg/l.
In organic solvents	: Insoluble in common solvents.
Log P	: Not applicable ( not soluble in n-octanol).

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### **10. Stability and Reactivity**

<b>Stability</b>	: Stable under ordinary conditions of use and storage
<b>Hazardous reactions</b>	
<b>Conditions to avoid</b>	: No dangerous reactions known under use of normal conditions.
<b>Materials to avoid</b>	: No dangerous reaction known with common products.
<b>Hazardous decomposition products</b>	: Not applicable

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### **11. Toxicological Information**

<b>Acute toxicity data</b>	: Risk of physical blockage of the upper respiratory tract. (by inhalation) By analogy : No mortality was observed at the maximum possible exposure dose LD 50 skin(rabbit): > 5000mg/kg (unpublished reports) LD 50 oral(Rat): > 5000mg/kg (unpublished reports)
<b>Local effects</b>	: Slightly irritating to the respiratory system. Slightly irritating to the eyes.(Unpublished reports) Repeated or prolonged contact may cause slight irritation to the skin (Unpublished reports)
<b>Sensitization</b>	: No cutaneous sensitization reaction observed (human) (Unpublished reports)
<b>Repeated dose toxicity</b>	: No irreversible effects or symptom of silicosis was observed during the inhalation toxicity tests.(Unpublished reports)

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No irreversible effects were observed during chronic oral toxicity tests  
(Unpublished reports)

**Specific effects :**

- Carcinogenicity : Oral toxicity tests on rats and mice did not reveal any carcinogenic potential.(unpublished reports)
- Mutagenicity : In vitro and vivo tests did not reveal any genotoxic potential (unpublished reports)
- Reproductive toxicity : Fertility and developmental toxicity tests did not reveal any effect on reproduction (published data)
- Neuro-toxicity : No known effects

**For more information** : Does not present any particular risk on handling under normal conditions of good occupational hygiene practice.

### **12. Ecological Information**

**Mobility :**

- Precipitation : Slightly soluble product, readily forms deposits
- Expected behaviour of the product : Ultimate destination of the product : Soil & sediment.

**Biodegradability :**

- Persistence : Inert mineral product. Not degradable.

**Bioaccumulation :**

- Octanol / water partition coefficient : : Not bioaccumulable (Insoluble material)

**Ecotoxicity**

- Effects on the aquatic environment :  
EC 50(Daphnia : Daphia magna)/24h : > = 1000mg/l.  
LC 50(Fish: Brachydanio rerio) / 96h : > = 10000mg/l  
(Unpublished reports)

### **13. Disposal Considerations**

**Residues from product**

- Prohibition : Do not allow the product to be released into the Environment.

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Destruction/Disposal : Dispose of in accordance with relevant local regulations

**Contaminated packaging**

Decontamination/cleaning : Cleaning is not required prior to disposal.

Destruction/Disposal : Incinerate at installation suitable for this type of packaging

Note : Take all necessary precautions when disposing of this product according to local regulations.

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### **14. Transport Information**

No classification assigned

Land(rail/road) : Not restricted

Sea : Not restricted

Air : Not restricted

The above regulatory prescriptions are those valid on the date of publication of this sheet. However, given the possible evolution of transport regulations for hazardous materials and in the event of the MSDS in your possession dating back more than 12 months, it is advisable to check their validity with your sales office.

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### **15. Regulatory Information**

**Labelling :**

EC regulations : Mandatory labelling (self classification) of Hazardous substances  
- Not applicable.

**Further regulations**

United Kingdom : Handle in accordance with relevant British regulation : Control of substance  
Hazardous to Health Regulations Environmental Hygiene Guidance : EH40  
Workplace Exposure Limits(revised annually)

**Korea regulations :**

Industrial safety and hygiene regulation : No

Hazardous material control regulation : No

Fire prevention regulation : No

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**Other regulations :**

EINECS inventory status	: Yes
TSCA inventory status	: Yes
AICS inventory status	: Yes
Canadian(CEPA DSL) inventory status	: Yes
MITI list	: Listed
ECL(Existing Chemical List)	: Listed

Note : The regulatory information given above only indicates the principal regulations specifically applicable to the products described in this sheet. The user's attention is drawn to the possible existence of additional provision which complete these regulations. Please refer to all applicable international, national and local regulations and provisions.

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### **16. Other Information**

Prohibited uses : For specific uses, food industry, ask the manufacturer for more information.

**MSDS summary of changes**

It was based on Korea industrial safety and hygiene law and Rhodia internal rules.

The information given is based on our knowledge of this product, at the time of publication in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than which it was intended. This is not in any way excuse the user from knowing and applying all the regulations governing their activity. It is sole responsibility of the user to take all precautions required in handling the product. The purpose of mandatory regulation mentioned is to help the user to fulfil his obligations regarding the use of products. This information is not exhaustive, this is not exonerate the user from ensuring that legal obligations other than those mentioned, relating to the use and storage.