

**TEMAFLOOR FLUAT**

Date 3.12.2010

Previous date: 15.10.2010

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****1.1 Identification of the article****1.1.1 Commercial Product Name**  
TEMAFLOOR FLUAT**1.1.2 Product code**  
007 9920**1.2 Use of the Substance/Preparation****1.2.1 Intended use**

Painting work.

Description: Crystalline, water soluble, silico fluoride, surface impregnating agent for concrete floors.

**1.3 Identification of the company****1.3.1 Supplier**

Tikkurila Oyj

**1.3.2 Contact information:****P.O.Box** P.O.Box 53  
**Postcode and post office** FI-01301 VANTAA  
FINLAND  
**Telephone** +358 9 857 71  
**Telefax** +358 9 8577 6936**1.3.4 Responsible for the Safety Data Sheet:**

Tikkurila Oyj, Product Safety, e-mail: productsafety@tikkurila.com

**1.4 Emergency telephone number****1.4.1 Telephone number, name and address**

Tikkurila Oyj, Environment and Safety: +358 9 857 71

**2. HAZARDS IDENTIFICATION****Classification and labelling in accordance with CLP Regulation (EC) 1272/2008:**Danger  
Acute toxicity cat.3/H301: Toxic if swallowed.**Labelling in accordance with Directives 67/548/EEC and 1999/45/EC:**Toxic, T  
Toxic if swallowed.

Information on hazard labelling in section 15.1.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Hazardous components**

<b>3.1.1 CAS number</b>	<b>EINECS</b>	<b>3.1.2 Chemical name of the substance</b>	<b>3.1.3 Concentration</b>	<b>3.1.4 Classification</b>
16949-65-8	241-022-2	Magnesium hexafluorosilicate	ca. 100 %	T; R25 Acute Tox.3/H301

**4. FIRST AID MEASURES****4.1 Additional advice**

In all cases of doubt, or when symptoms persist, seek medical attention.

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- 4.2 Inhalation**  
Remove to fresh air, keep patient warm and at rest. Seek medical advice.
- 4.3 Skin contact**  
Remove contaminated clothing. Wash skin thoroughly with soap and water. Consult a doctor if skin irritation persists.
- 4.4 Eye contact**  
Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart and seek medical advice.
- 4.5 Ingestion**  
Rinse the mouth with water. Drink plenty of water. Do not induce vomiting. Obtain medical attention immediately.

**5. FIRE-FIGHTING MEASURES**

- 5.1 Suitable extinguishing media**  
Use foam, CO<sub>2</sub>, powder or water spray.
- 5.2 Extinguishing media which must not be used for safety reasons**  
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- 5.3 Specific hazards**  
Fire will produce dense black smoke, which contains decomposition products. Avoid breathing the smoke.

**6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions**  
Avoid skin contact with the product and breathing the dust. Use respiratory protection if necessary.
- 6.2 Environmental precautions**  
Magnesium hexafluorosilicate reacts with the calcium carbonate in the concrete. After this reaction the area is rinsed with a plenty of water. Do not allow the product to enter drains or water courses before the chemical reaction has taken place.
- 6.3 Methods for cleaning up**  
Sweep or vacuumclean the powder. Avoid raising dust. Clean with a plenty of water.

**7. HANDLING AND STORAGE**

- 7.1 Handling**  
Avoid skin contact and breathing the dust.
- 7.2 Storage**  
Store in a dry, cool place. Keep containers tightly closed. Store away from foodstuffs. Do not store together with acids.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- 8.2 Exposure controls**
- 8.2.1 Occupational exposure controls**  
Provide adequate ventilation. Comply with the health and safety at work laws.  
When using, do not eat, drink or smoke. Wash hands during breaks and at the end of the work.
- 8.2.1.1 Respiratory protection**  
Use appropriate certified respirators, with dust filter P2, if ventilation is insufficient.
- 8.2.1.2 Hand protection**  
Always wear protective gloves (e.g. nitrile rubber). Barrier creams may also help to protect the exposed areas of the skin.
- 8.2.1.3 Eye protection**  
Use safety eyewear.
- 8.2.1.4 Skin and body protection**  
Use suitable protective clothing.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>9.1</b>	<b>General Information (appearance, odour)</b> White chrySTALLINE powder	
<b>9.2</b>	<b>Important Health Safety and Environmental Information</b>	
<b>9.2.1</b>	<b>pH</b>	in water solution (100 g/l) abt. 2,7
<b>9.2.2</b>	<b>Boiling point/range</b>	-
<b>9.2.3</b>	<b>Flash point</b>	-
<b>9.2.5</b>	<b>Explosive properties</b>	
<b>9.2.5.1</b>	<b>Lower explosion limit</b>	-
<b>9.2.5.2</b>	<b>Upper explosion limit</b>	-
<b>9.2.7</b>	<b>Vapour pressure</b>	-
<b>9.2.8</b>	<b>Relative density</b>	1,79
<b>9.2.9</b>	<b>Solubility</b>	
<b>9.2.9.1</b>	<b>Water solubility</b>	Soluble

**10. STABILITY AND REACTIVITY**

<b>10.1</b>	<b>Conditions to avoid</b> ---	
<b>10.2</b>	<b>Materials to avoid</b> Keep away from alkaline and strongly acid materials.	
<b>10.3</b>	<b>Hazardous decomposition products</b> Reacts with strong acids releasing silico fluoride (SiF) and hydrogen fluoride (HF). Hazardous decomposition products (e.g. hydrogen fluoride HF) may produce, when exposed to high temperatures.	

**11. TOXICOLOGICAL INFORMATION**

<b>11.1</b>	<b>Acute toxicity</b> LD50 (oral, rat) = 200 mg/kg; toxic. See section 11.5.	
<b>11.2</b>	<b>Primary irritation</b> See section 11.5.	
<b>11.3</b>	<b>Sensitisation</b> ---	
<b>11.5</b>	<b>Human experience</b> 11.5.1 Inhalation: Breathing the dust may cause irritation of the respiratory system. 11.5.2 Skin contact: Irritates eyes and mucous membranes. 11.5.3 Other effects: Magnesiumsilico fluoride is toxic if taken internally.	

**12. ECOLOGICAL INFORMATION**

<b>12.6</b>	<b>Other adverse effects</b> There is no data available on the preparation itself. The product should not be allowed to enter drains or water courses.	
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**13. DISPOSAL CONSIDERATIONS**

- 13.1 Product residues: Gather residues into waste containers. Destroy according to the rules given by local authorities.
- 13.2 Packaging: Empty packages should be disposed of in accordance with local regulations.

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**14. TRANSPORT INFORMATION**

14.1	UN No	2853
14.2	Packing group	III
14.3	Land transport	
14.3.1	ADR/RID Class	6.1
14.3.3	Description of the goods	magnesium fluorosilicate
14.4	Sea transport	
14.4.1	IMDG Class	6.1
14.4.2	Proper shipping name	magnesium fluorosilicate
	Marine pollutant	no
14.4.3	Further Information	EmS: F-A,S-A
14.5	Air transport	
14.5.1	ICAO/IATA Class	6.1
14.5.2	Proper shipping name	magnesium fluorosilicate

**15. REGULATORY INFORMATION**


Signal Word: Danger

**15.1 Information on the warning label**

EC Label 241-022-2

**15.1.2 Names of the ingredients given on the warning label**

Magnesium hexafluorosilicate

GHS06	Pictogram: skull and crossbones	
H301	Toxic if swallowed.	
P261D	Avoid breathing dust.	
P262	Do not get in eyes, on skin, or on clothing.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P285	In case of inadequate ventilation wear respiratory protection.	
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
P330	Rinse mouth.	
P270	Do not eat, drink or smoke when using this product.	
P405	Store locked up.	
P102	Keep out of reach of children.	

**16. OTHER INFORMATION****16.1 Full text of R-phrases referred to under sections 2 and 3**

R25 Toxic if swallowed.

**Full text of Hazard statements (H-statements) referred to under sections 2 and 3**

H301: Toxic if swallowed.

**16.4 Additional information**

The information of this MSDS is based on the present state of our knowledge and on current EC laws. It is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products' properties.

Additional information available from: Tikkurila Oyj, Product Safety, P.O. Box 53, FIN-01301 VANTAA, FINLAND, Telephone +358 9 857 71, Fax +358 9 8577 6936, E-mail: productsafety@tikkurila.com

Signature

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