

## Safety data sheet according to EU Regulation 453/2010

Printing date 15.02.2013

### Version number 3

Revision: 15.02.2013

### 1 Identification of the substance/mixture and of the company/undertaking · Product identifier Trade name: SANOTHERM 700 · Relevant identified uses of the substance or mixture and uses advised against • Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites · Product category PC0 Other • **Process category** PROC2 Use in closed, continuous process with occasional controlled exposure · Environmental release category ERC4 Industrial use of processing aids in processes and products, not becoming part of articles · Application of the substance / the preparation Cleaning agent for solar thermal system · Details of the supplier of the safety data sheet · Manufacturer/Supplier: PRAGMA CHIMICA srl Via Dell'Industria, 48/B 36071 Arzignano (VI) luca@pragmachimica.it • Further information obtainable from: product safety department, see section 16 · Emergency telephone number: During workin time 8.30-18.00: +39 0444 451373 After working time and 24h/day : ITALY : Centro Antiveleni Niguarda Milano tel. +039 02 66101029 GERMANY: Notrufnummer +49 361 730730 AUSTRIA: Notrufnummer +43 14064343

### **2 Hazards identification**

· Classification of the substance or mixture

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.

• Information concerning particular hazards for human and environment: Not applicable.

### · Label elements

· Labelling according to EU guidelines:

The substance is not subject to classification according to EU lists and other sources of literature known to us.

Observe the general safety regulations when handling chemicals.

The product has been classified and marked in accordance with Direttive 1999/45/CE

· Other hazards

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

· **vPvB:** Not applicable.

### **3 Composition/information on ingredients**

- · Chemical characterization: Mixtures
- **Description:** Mixture of non-hazardous substances
- · Dangerous components: Void

### **4 First aid measures**

· Description of first aid measures

- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.

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- After eye contact: Rinse opened eye for several minutes under running water.
- *After swallowing:* Do not induce vomiting; call for medical help immediately.

· Information for doctor:

- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

### **5 Firefighting measures**

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- Protective equipment: No special measures required.

• Additional information waste of wet product are very slippery

### **6 Accidental release measures**

Personal precautions, protective equipment and emergency procedures
 Do not breathe vapour/spray.
 Ensure adequate ventilation
 Environmental precautions:
 Inform respective authorities in case of seepage into water course or sewage system.
 Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

• Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

### 7 Handling and storage

· Handling:

- · Precautions for safe handling
- Wear eye/face protection.

Ensure good ventilation/exhaustion at the workplace.

- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:

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• *Requirements to be met by storerooms and receptacles:* Store only in the original receptacle.

Store in a cool location. (0°-35°C)

- · Information about storage in one common storage facility: Not required.
- $\cdot$  Further information about storage conditions:
- The product is stable for 24 months, if stored at room temperature.
- Protect from frost. • **Storage class:** 12

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· Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters
- · Ingredients 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 valid during the making were used as basis.
- · Exposure controls

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- · Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals. **Respiratory protection:** Not required.
- · **Protection of hands:** Neoprene gloves
- · Material of gloves Neopren Gloves
- · Penetration time of glove material
- The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- · Eye protection: Goggles recommended during refilling
- · Body protection: Protective work clothing

Physical and chemical properties			
Information on basic physical and	d chemical properties		
General Information			
Appearance:			
Form:	Fluid		
Colour:	Colourless		
Odour:	Odourless		
pH-value at 20°C:	11.5		
Change in condition			
Melting point/Melting range:	0°C		
Boiling point/Boiling range:	100°C		
Flash point:	Not applicable.		
Flammability (solid, gaseous):	Not applicable.		
Ignition temperature:			
Decomposition temperature:	Not determined.		
Self-igniting:	Not determined.		
Danger of explosion:	Product does not present an explosion hazard.		
Explosion limits:			
Lower:			
Upper:	Not determined.		
oppei.	Not determined.		
Vapour pressure at 20°C:	23 hPa		
Density at 20°C:	1.006 g/cm <sup>3</sup>		
Relative density	Not determined.		

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· Vapour density · Evaporation rate	Not determined.	
	Not determined.	
Solubility in / Miscibility with		
water:	Fully miscible.	
Partition coefficient (n-octanol	/water): Not determined.	
Other information	No further relevant information available.	

### **10 Stability and reactivity**

· Reactivity

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- · **Incompatible materials:** No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- $\cdot$  on the skin: No irritant effect.
- $\cdot$  on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

### **12 Ecological information**

#### · Toxicity

Note: no ecological testing was carried out on the product. Data are based on the properties of the main components.

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability biodegradable
- · Behaviour in environmental systems:
- · Bioaccumulative potential Does not accumulate in organisms
- Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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• Other adverse effects No further relevant information available.

### 13 Disposal considerations

· Waste treatment methods

• Recommendation Smaller quantities can be disposed of with household waste.

· European waste catalogue

16 00 00 WASTES NOT OTHERWISE SPECIFIED IN THE LIST

16 03 00 off-specification batches and unused products

16 03 06 organic wastes other than those mentioned in 16 03 05

· Uncleaned packaging:

• **Recommendation:** Disposal must be made according to official regulations.

• **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

#### 14 Transport information · UN-Number · ADR, ADN, IMDG, IATA Void · UN proper shipping name · ADR, ADN, IMDG, IATA Void · Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class Void · Packing group · ADR, IMDG, IATA Void · Environmental hazards: · Marine pollutant: No Not applicable. · Special precautions for user · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

### **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture • Labelling according to EU guidelines: See section 2

· National regulations:

• Other regulations, limitations and prohibitive regulations Not applicable

· Substances of very high concern (SVHC) according to REACH, Article 57 None

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

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This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Department issuing MSDS:** Research and development department

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 $\cdot$  \* Data compared to the previous version altered.

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