



Trade name: Tinosorb S

Substance number: 272900

Version: 1 / CH

Date revised: 02.02.12

Replaces Version: - / CH

Date of printing: 27.08.12

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Tinosorb S

Item-No. 27290000

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

Cosmetics

1.3. Details of the supplier of the safety data sheet

Address

Hänseler AG

Industriestrasse 35

9101 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible
for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

2. Hazards identification

2.2. Label elements

Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC

The product does not require a hazard warning label in accordance with EC Directives.

2.3. Other hazards

The product does not require a hazard warning label in accordance with Directive 67/548/EC

3. Composition/information on ingredients

Substance / product identification

CAS-Nr. 187393-00-6

EINECS-Nr. 425-950-7

Molecular weight

Value 627.80 g/mol

4. First aid measures

4.1. Description of first aid measures

General information

Remove contaminated clothing immediately and dispose of safely.

After inhalation

Ensure supply of fresh air. Summon a doctor immediately.

After skin contact

Wash off immediately with soap and water and rinse well.



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After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.).

After ingestion

Rinse out mouth and give plenty of water to drink.

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / treatment**

Symptomatic treatment (decontamination, vital functions).

5. Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water spray jet, Foam, Dry powder, Carbon dioxide

5.2. Special hazards arising from the substance or mixtureCarbon monoxide (CO); Carbon dioxide (CO₂); Nitrogen oxides (NO_x)**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

Other information

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment

6.2. Environmental precautions

Retain and dispose of contaminated wash water. Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

For small amounts: take up with appropriate instrument and dispose. For large amounts: take up with appropriate instrument and dispose. Avoid raising dust.

6.4. Reference to other sections

Information regarding personal protective measures see, chapter 8. Information regarding Waste Disposal, see chapter 13.

7. Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

No special measures necessary if used correctly. Use breathing apparatus when transferring large quantities without exhaust ventilation facilities.

Advice on protection against fire and explosion

Avoid formation of dust. Take precautionary measures against static charges.

7.2. Conditions for safe storage, including any incompatibilities**Recommended storage temperature**



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Value <= 60 °C

Requirements for storage rooms and vessels

No special measures required.

Further information on storage conditions

Keep container tightly closed in a cool, well-ventilated place.

8. Exposure controls/personal protection**8.2. Exposure controls****General protective and hygiene measures**

Observe the usual precautions when handling chemicals.

Respiratory protection

Breathing apparatus in the event of high concentrations. Particle filter half mask, filter P3 - Norm NF EN 149

Hand protection

Chemical resistant gloves

Appropriate Material	nitrile rubber - NBR
Material thickness	0.4 mm
Penetrating time	> 480 min
Appropriate Material	Polychloroprene
Material thickness	0.5 mm
Penetrating time	> 480 min
Appropriate Material	PVC
Material thickness	0.7 mm
Penetrating time	> 480 min

Eye protection

Safety glasses with side protection shield

Body protection

apron; Boots; Clothing as usual in the chemical industry.

9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	Powder
Colour	yellowish
Odour	odourless

pH

Value	appr. 7
Concentration/H ₂ O	1 g/l
Temperature	20 °C

Melting point

Value	80.3 to 80.5 °C
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Flash point

Value	284 °C
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Flammability

Not self inflammable

Density

Value	1.17 g/cm ³
Temperature	20 °C



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Solubility in water

Value	<	0.014		mg/l
Temperature		20	°C	

Octanol/water partition coefficient (log Pow)

log Pow	>	5.7		
Temperature		20	°C	

Ignition temperature

Value		430		°C
Remarks		Dust		

9.2. Other information**Bulk density**

Value		0.65	to	0.7	g/cm ³
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10. Stability and reactivity**10.4. Conditions to avoid**

No hazardous reactions known.

10.5. Incompatible materials

Danger of dust explosion

10.6. Hazardous decomposition products

No hazardous decomposition products known when handled according to prescribed instructions. None under normal use.

11. Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

Species		rat		
LD50	>	5000		mg/kg
method		OECD 401		
Remarks		no toxicity		

Acute dermal toxicity

Species		rat		
LD50	>	5000		mg/kg
method		OECD 402		

Skin corrosion/irritation

Species		rabbit		
valuation		non-irritant		
method		OECD 404		

Serious eye damage/irritation

Species		rabbit		
valuation		non-irritant		
method		OECD 405		

Sensitization

Species		guinea pig		
valuation		non-sensitizing		
method		OECD 406		

Mutagenicity

Remarks		None		
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12. Ecological information

12.1. Toxicity

Fish toxicity

Species	zebra fish (Brachydanio rerio)	
LC50	> 100	mg/l
method	OECD 203	

Daphnia toxicity

Species	Daphnia magna	
EC50	> 100	mg/l
Duration of exposure	48	h
method	OECD 202	

Algae toxicity

Species	Scenedesmus subspicatus	
EC50	> 100	mg/l
Duration of exposure	72	h

Bacteria toxicity

Species	activated sludge	
EC50	> 1000	mg/l
Duration of exposure	3	h
method	OECD 209	

12.2. Persistence and degradability

Biodegradability

Value	< 10	%
Duration of test	28	d
valuation	not readily degradable	

12.3. Bioaccumulative potential

Octanol/water partition coefficient (log Pow)

log Pow	> 5.7	
Temperature	20	°C

12.5. Results of PBT and vPvB assessment

Evaluation of persistence and bioaccumulation potential

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not to be expected.

12.6. Other adverse effects

General information / ecology

Innocuous to aquatic organisms.

13. Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

In accordance with regulations for special waste, must be taken after pretreatment to an authorised special waste disposal site or incineration plant.

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.



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Uncontaminated packaging may be treated as household waste.
Uncontaminated packaging may be taken for recycling.

14. Transport information

Land transport ADR/RID

Non-dangerous goods

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (Ger.)

Water Hazard Class (Ger.) WGK 1

16. Other information

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.