



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Provis

Print date: 14.04.2014

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Name: Provis

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

Use of the substance/mixture

Filler

1.3. Details of the supplier of the safety data sheet

Company name: FAVODENT Karl Huber GmbH
Street: Greschbachstr. 7
Place: D-76229 Karlsruhe
Telephone: +49 (0) 721 626 86-0
Telefax: +49 (0) 721 626 86-66
e-mail: info@favodent.com
Contact person: Apoth. Wolf Telephone: +49 (0) 721 626 86-0
e-mail: info@favodent.com
Internet: www.favodent.com
Responsible Department: Zentrale

1.4. Emergency telephone number:

+49 (0) 721 626 86-0

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: Xi - Irritant, N - Dangerous for the environment

R phrases:

Irritating to eyes.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

GHS classification

Hazard categories:

Serious eye damage/eye irritation: Eye Dam. 1

Hazardous to the aquatic environment: Aquatic Acute 1

Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:

Causes serious eye damage.

Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazardous components which must be listed on the label

zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)

Signal word: Danger

Pictograms: GHS05-GHS09



Hazard statements

H318

Causes serious eye damage.



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H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313 Get medical advice/attention.
P273 Avoid release to the environment.

2.3. Other hazards

PBT: not applicable. vPvB: not applicable

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
215-222-5	zinc oxide	30-40 %
1314-13-2	N - Dangerous for the environment R50-53	
030-013-00-7	Aquatic Acute 1, Aquatic Chronic 1; H400 H410	
214-987-2	2-ethylhexyl-diphenyl-phosphate	10-15 %
1241-94-7	N - Dangerous for the environment R50-53	
	Aquatic Chronic 1; H410	
231-793-3	zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)	5-15 %
7446-19-7	Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R22-41-50-53	
030-006-00-9	Acute Tox. 4, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H318 H400 H410	
204-112-2	triphenylphosphate	<1 %
115-86-6	N - Dangerous for the environment R50-53	
	Aquatic Chronic 1; H410	

Full text of R and H phrases: see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No special measures are necessary.

After inhalation

Provide fresh air.
In case of respiratory tract irritation, consult a physician.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.
If skin irritation occurs: Get medical advice/attention.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.



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Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry extinguishing powder. Carbon dioxide (CO₂). alcohol resistant foam. Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

No further Information available.

5.3. Advice for firefighters

Special protective equipment for firefighters: Protective clothing. In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Residues of fire and contaminated water have to be disposed according to the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8. Provide adequate ventilation. Personal protection equipment: see section 8 Keep away from unprotected people. Do not touch or tread spilled product.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains. Spilled product must not leak into the ground. Release of big amounts may be harmful to the environment. In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

See chapter 8. Wear personal protection equipment (see chapter 8). Keep container tightly closed.

Advice on protection against fire and explosion

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Further information on handling

Empty containers may contain hazardous residues of the product.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

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

Advice on storage compatibility

Keep away from:



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Food and feedingstuffs
oxidizing agents

Further information on storage conditions

Keep away from:
Frost
Heat
Moisture

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
115-86-6	Triphenyl phosphate	-	3		TWA (8 h)	WEL
		-	6		STEL (15 min)	WEL

8.2. Exposure controls

Appropriate engineering controls

Not necessary

Protective and hygiene measures

When using do not eat, drink or smoke.
Keep away from food, drink and animal feeding stuffs.
Remove contaminated, saturated clothing immediately.
Wash hands before breaks and after work.
Avoid contact with skin and eyes.

Eye/face protection

Suitable eye protection:
Tightly sealed goggles.

Hand protection

Suitable gloves type:
NBR (Nitrile rubber) DIN EN 374,

Skin protection

Protective clothing.

Respiratory protection

Not necessary

Environmental exposure controls

Not necessary

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Paste
Colour: whitish
Odour: odourless

Test method

pH-Value: not applicable

Changes in the physical state

Melting point: 7 °C
Initial boiling point and boiling range: 100 °C



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Flash point: not applicable

Explosive properties
not applicable

Ignition temperature: not applicable

Density (at 25 °C): 2,42 g/cm³

Water solubility: insoluble

Partition coefficient: Not determined.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

No dangerous reactions by handling and stock-keeping according to the guidelines.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Do not heat above 80 °C.

10.5. Incompatible materials

No further Information available.

10.6. Hazardous decomposition products

In case of fire may be liberated: small amounts of Hydrogen chloride (HCl), Sulphur oxides

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

CAS No	Chemical name	Exposure routes	Method	Dose	Species	Source
1314-13-2	zinc oxide	oral	LD50 mg/kg	> 5000	Rat	IUCLID
7446-19-7	zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)	oral	ATE	500 mg/kg		

SECTION 12: Ecological information

12.2. Persistence and degradability

No further Information available.

12.3. Bioaccumulative potential

No further Information available.

12.4. Mobility in soil

No further Information available.

12.5. Results of PBT and vPvB assessment

PBT: not applicable. vPvB: not applicable

12.6. Other adverse effects

No further Information available.



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.
Containers emptied of residues have to be recycled. Containers emptied of residues may still contain hazardous material. Containers not emptied should be removed harmlessly according to the actual disposal guidelines.

Waste disposal number of waste from residues/unused products

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

Waste disposal number of used product

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	UN 3077
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide,Zinc sulphate)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9
Classification code:	M7
Special Provisions:	274 335 601
Limited quantity:	5 kg
Transport category:	3
Hazard No:	90
Tunnel restriction code:	E

Other applicable information (land transport)

E2

Inland waterways transport (ADN)

14.1. UN number:	UN 3077
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide,Zinc sulphate)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9
Classification code:	M7
Special Provisions:	274 335 601
Limited quantity:	5 kg

Other applicable information (inland waterways transport)

E1

Marine transport (IMDG)

14.1. UN number:	UN 3077
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14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide,Zinc sulphate)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9
Marine pollutant:	yes
Special Provisions:	274, 335, 966, 967
Limited quantity:	5 kg
EmS:	F-A, S-F

Other applicable information (marine transport)

E2

Air transport (ICAO)

14.1. UN number:	UN 3077
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide,Zinc sulphate)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9
Special Provisions:	A97 A158 A179
Limited quantity Passenger:	30 kg G
IATA-packing instructions - Passenger:	956
IATA-max. quantity - Passenger:	400 kg
IATA-packing instructions - Cargo:	956
IATA-max. quantity - Cargo:	400 kg

Other applicable information (air transport)

Passenger-LQ: Y956
E1
0000000005: Y344
E2
000000005: Y342
Passenger-LQ: Y841

SECTION 15: Regulatory information

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

National regulatory information

Water contaminating class (D): 2 - water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European



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Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

Full text of R phrases referred to under Sections 2 and 3

- | | |
|-------|--|
| 22 | Harmful if swallowed. |
| 36 | Irritating to eyes. |
| 41 | Risk of serious damage to eyes. |
| 50 | Very toxic to aquatic organisms. |
| 50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 53 | May cause long-term adverse effects in the aquatic environment. |

Full text of H statements referred to under Sections 2 and 3

- | | |
|------|---|
| H302 | Harmful if swallowed. |
| H318 | Causes serious eye damage. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Further Information

The information of this SDS is based on the present state of our knowledge and on current EU and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfill the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product. It is not to be considered as a guarantee of the product's properties.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)