

**OVS Tinning solution**

Material no.		Version	<b>3.1 / GB</b>
Specification	<b>142404</b>	Revision date	<b>26.12.2004</b>
VA-Nr		Print Date	<b>19.06.2009</b>
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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name	:	OVS Tinning solution
Company	:	DeguDent GmbH Postfach 1364 D-63403 Hanau
Telephone	:	+49 (0)6181/59-5767
Telefax	:	+49 (0)6181/59-5879
Emergency telephone number	:	+49 (0)180 / 23 24-555
Use of the Substance / Preparation	:	For dental use only.

**2. COMPOSITION/INFORMATION ON INGREDIENTS****Information on ingredients / Hazardous components**

• <b>methanesulphonic acid</b>	< 25%	
CAS-No. 75-75-2	EC-No.	200-898-6
C; R34		
• <b>Tin Sulphonic acids</b>	< 25%	
CAS-No. 53408-94-9		
C; R34		
Xn; R22		
R43		

See chapter 16 for text of risk phrases

**3. HAZARDS IDENTIFICATION**

Harmful if swallowed.  
Causes burns.  
May cause sensitization by skin contact.

**4. FIRST AID MEASURES****General advice**

Take off all contaminated clothing immediately.

**Inhalation**

If aerosol or mists are formed:

Possible discomfort:

severe irritation of mucous lining (nose, throat, eyes). cough, sneezing, flow of tears.

Take affected persons out into the fresh air.

If breathing difficulties occur (e.g. severe continual coughing):

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Keep patient half sitting with upper body raised.  
Call a physician immediately.

**Skin contact**

After contact with skin, wash immediately with plenty of water.  
Affected body parts: rinse continuously with large quantities of water and if possible also with polyethylenglycol (e. g. LUTROL).  
Call a physician immediately.

**Eye contact**

Immediately flush eye(s) with plenty of water.  
Continue rinsing process with eye rinsing solution.  
Protect unharmed eye.  
Call ambulance. (Cue: caustic burn of the eyes)  
Immediate further treatment in ophthalmic hospital/ ophthalmologist.  
Continue rinsing eye until arrival at ophthalmic hospital.

**Ingestion**

Do not induce vomiting.  
Only when patient fully conscious:  
Rinse mouth.  
Have patient drink plenty of water in small sips.  
Notify ambulance immediately (keyword: chemical burn).

**Notes to physician**

Specific therapy/antidote treatment: none known  
Therapy as for chemical burn.  
If substance has been swallowed:  
Early endoscopy in order to assess mucosa lesions in the oesophagus and stomach which may appear. If necessary, suck away leftover substance.

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**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

water, foam

**Specific hazards during fire fighting**

In the presence of fire, note caustic and corrosive effect.

**Special protective equipment for fire-fighters**

In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

**Further information**

Water used to extinguish fire should not enter drainage systems, soil, or stretches of water.

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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Wear personal protective equipment.

**Environmental precautions**

Do not allow entrance in soil, stretches of water, drainage systems.

**Methods for cleaning up**

Absorb with liquid-binding material e.g. inert absorbent

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Absorb in water or rinse away with water and collect in suitable containers.  
Dispose of sewage water in accordance with the regulations.

**Additional advice**

Densify gases/fumes produced with water.

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**7. HANDLING AND STORAGE****Handling****Safe handling advice**

Always close container tightly after removal of product.  
Avoid formation of aerosol.

**Storage****Requirements for storage areas and containers**

Keep tightly sealed in original packing.

**Advice on common storage**

The product has a corrosive effect on aluminium or steel.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Components with workplace control parameters****• Tin Sulfonic acids**

CAS-No. 53408-94-9

Control parameters 0.1 mg/m<sup>3</sup>

Control parameters 0.2 mg/m<sup>3</sup>

Control parameters

Can be absorbed through the skin.

Time Weighted Average (TWA):(EH40 OES)

Short Term Exposure Limit (STEL):(EH40 OES)

Skin designation:(EH40 OES)

**Personal protective equipment****Respiratory protection**

Do not inhale aerosol.  
Respirator with ABEK combination filter

**Hand protection**

Wear protective gloves made of the following materials:  
acid-resistant protective gloves

Glove material Polychloroprene (PCP)

Material thickness 0.5 mm

Glove material butyl-rubber

Material thickness 0.5 mm

Glove material Fluorinated rubber (FKM)

Material thickness 0.4 mm

Glove material PVC

Material thickness 0.5 mm

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The suitability for a specific workplace should be discussed with the producers of the protective gloves.

The exact break through time can be obtained from the protective glove producer and this has to be observed.

preventive skin protection

Use barrier cream regularly.

**Eye protection**

goggles

**Skin and body protection**

chemical protective suit (acid-proof)

boots

apron

**Hygiene measures**

No eating, drinking, smoking, or snuffing tobacco at work.

Wash hands before breaks and at the end of workday.

Avoid contact with skin, eyes and clothing.

Remove immediately all contaminated clothing.

**Protective measures**

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

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**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	liquid
Colour	white to slight yellowish
Odour	characteristic

**Safety data**

pH	1.1 - 1.5
Boiling point/range	100 °C
Flash point	n.a.
Flammability	n.a.
Ignition temperature	n.a.
Density	ca. 1.540 - 1.560 g/cm <sup>3</sup>
Water solubility	soluble

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**10. STABILITY AND REACTIVITY**

Conditions to avoid	Avoid contact with metals.
Materials to avoid	cyanides, alkalis
Hazardous decomposition products	decomposition products on reaction with metals

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**11. TOXICOLOGICAL INFORMATION**

Eye irritation	risk of serious damage to eyes
Sensitization	May cause sensitization by skin contact.
Human experience	Irritation and on occasion caustic effects to the skin and mucous membranes (eyes, respiratory channels, in the stomach/intestinal tracts after swallowing) are to be expected from local contact.

**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)****Behaviour in environmental compartments****Ecotoxicity effects****Further information on ecology**

Further Information	Prevent penetration into soil, stretches of water and drainage systems.
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**13. DISPOSAL CONSIDERATIONS****Product**

Disposal according to local authority regulations.

**Uncleaned packaging**

Disposal according to local authority regulations.

**14. TRANSPORT INFORMATION****Land transport ADR/RID/GGVSE (Germany)**

Class	8
ADR/RID-Labels	8
UN-No	3265
Packaging group	III
orange warning plate	80 / 3265
Description of the goods (Technical name)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (cont. Tin Sulfonic acids, methanesulphonic acid, )

**Sea transport IMDG-Code/GGVSee**

Class	8
UN-No	3265
Packaging group	III
EmS	F-A, S-B
Proper technical name (Proper shipping name)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

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(cont. Tin Sulfonic acids, methanesulphonic acid, )

**Air transport ICAO-TI/IATA-DGR**

Class 8  
UN-No 3265  
Packaging group III

Proper technical name (Proper shipping name)

Corrosive liquid, acidic, organic, n.o.s.

(cont. Tin Sulfonic acids, methanesulphonic acid, )

**Inland waterway transport ADN/ADNR/GGVBinSch (Germany)**

Class 8  
ADR/RID-Labels 8  
UN-No/ Substance number 3265  
Packaging group III

Description of the goods (Technical name)

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

(cont. Tin Sulfonic acids, methanesulphonic acid, )

**Loading instructions/Remarks**

IATA\_C ERG-Code 8L  
IATA\_P ERG-Code 8L  
IMDG "Keep away from" living-/recreation areas.

**Transport/further information**

Keep separate from foodstuffs, luxury foods, feedstuffs

**15. REGULATORY INFORMATION****Labelling according to EC Directives****hazard-defining component(s)**

- methanesulphonic acid
- Tin Sulfonic acids

<b>Symbol(s)</b>	C	Corrosive
<b>R-phrase(s)</b>	R22 R34 R43	Harmful if swallowed. Causes burns. May cause sensitization by skin contact.
<b>S-phrase(s)</b>	S23 S26 S36/37/39 S45	Do not breathe spray. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**National legislation**

employment restriction The employment limitations under the protection of young persons act, the

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laws on pregnant women and young mothers and work at home is/are to be observed.

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**16. OTHER INFORMATION****Risk phrase (R phrase) texts**

- **methanesulphonic acid**

R34 Causes burns.

- **Tin Sulfonic acids**

R34 Causes burns.

R22 Harmful if swallowed.

R43 May cause sensitization by skin contact.

**Further information**

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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