

# Material Safety Data Sheet according to (EC) 1907/2006



Tradename:

**Insulator for 3D models**

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## SECTION 1: Identification of the substance/preparation and of the company/undertaking

### 1.1. Product identifier

Name of product: Insulator for 3D models

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

No further relevant information available.

### Use of the substance/mixture

Coating

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer / distributor

SCHEU DENTAL GmbH

Am Burgberg 20

D-58642 Iserlohn

Tel. +49 (2374) 9288-0

Fax +49 (2374) 9288-90

eMail: [service@SCHEU-DENTAL.com](mailto:service@SCHEU-DENTAL.com)

Internet: [www.SCHEU-DENTAL.com](http://www.SCHEU-DENTAL.com)

**1.4. Emergency telephone number:** +49 (2374) 9288-0

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Dam. 1	H318 Causes serious eye damage.
Skin Sens. 1	H317 May cause an allergic skin reaction.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008

The product is classified and labelled according to the CLP regulation.

Signal word: Danger

Hazard Pictograms:



GHS05



GHS07

#### Hazard-determining components of labelling:

Alcohols, C16-18 and C18 unsaturated, ethoxylated

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

ethoxylated, 2,4,7,9-tetramethyl 5 decyn-4,7-diol

#### Hazard statements

H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.

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**Precautionary statements**

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
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.
P321	Specific treatment (see on this label).
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3. Other hazards****Results of PBT and vPvB assessment**

PBT: None.

vPvB: None.

**SECTION 3: Composition / information on ingredients****3.1. Substances**

not applicable

**3.2. Mixtures**

Description: wax emulsion.

**Hazardous components**

	<b>Bezeichnung</b>	<b>Anteil</b>
	Alcohols, ethoxylated (polymer, monomers EINECS listed)	5 - <10 %
	Aquatic Acute 1, H400; Acute Tox. 4, H302; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	
CAS: 9014-85-1	ethoxylated, 2,4,7,9-tetramethyl 5 decyn-4,7-diol	1 - <3%
Reg.-Nr. 01-2119954393-33	Eye Dam. 1, H318; Aquatic Chronic 3, H412	
CAS: 68920-66-1	Alcohols, C16-C18 und C18 unsaturated, ethoxylated	1 - <3 %
Polymer	Eye Dam. 1, H318; Acute Tox. 4, H302	
CAS: 52-51-7	2-bromo-2-nitropropane-1,3-diol	0,1 - <1 %
EINECS: 200-143-0	Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; STOT SE 3, H335	
CAS: 55965-84-9	Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	<0,005 %
	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Skin Corr. 1B, H314; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Skin Sens. 1, H317	

SVHC None.

**Additional information**

For the wording of the listed risk phrases refer to section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures**

<b>General information:</b>	Immediately remove any clothing soiled by the product.
<b>After inhalation:</b>	Supply fresh air ; consult doctor in case of complaints.
<b>After contact with skin:</b>	Immediately wash with water and soap and rinse thoroughly.
<b>After contact with eyes:</b>	Rinse opened eye for several minutes under running water. Then consult a doctor.
<b>After swallowing:</b>	If symptoms persist consult doctor.

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

No further relevant information available.

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

No further relevant information available.

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## **SECTION 5: Firefighting measures**

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### **5.1. Extinguishing media**

#### **Suitable extinguishing agents**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

### **5.2. Special hazards arising from the substance or mixture**

No further relevant information available.

### **5.3. Advice for firefighters**

#### **Protective equipment:**

Do not inhale explosion gases or combustion gases.

#### **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Product contains water and is non-combustible.

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## **SECTION 6: Accidental release measures**

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### **6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective clothing.

### **6.2. Environmental precautions**

Inform respective authorities in case of seepage into water course or sewage system.

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

### **6.3. Methods and material for containment and cleaning up**

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

### **6.4. Reference to other sections**

See section 7 for information on safe handling

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

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## **SECTION 7: Handling and Storage**

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### **7.1. Precautions for safe handling**

No special precautions are necessary if used correctly.

#### **Information about fire – and explosion protection:**

The product is not flammable.

Protect from heat.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage:**

##### **Requirements for storage rooms and receptacles:**

Store in a cool location.

##### **Information about storage in one common storage facility:**

Not required.

##### **Further information on storage conditions:**

Protect from frost.

Store in cool, dry conditions in well sealed receptacles.

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## 7.3. Specific end use(s)

No further relevant information available.

## SECTION 8: Exposure controls / personal protection

### Additional information about design of technical facilities.

No further data ; see item 7.

### 8.1. 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.

### 8.2. Exposure controls

#### Personal protective equipment:

##### Protective and hygiene measures:

The usual precautionary measures are to be adhered to when handling chemicals.  
Avoid contact with the eyes and skin.

#### Respiratory protection

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### Hand protection

Only use chemical-protective gloves with CE-labelling of category III. The glove material has to be impermeable and resistant to the product / the substance / the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.5$  mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material:

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6)

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50 % of the penetration time, is recommended.

#### Eye protection

Tightly sealed goggles.

#### Body protection:

Protective work clothing.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### General Information

Appearance:	
Form:	Fluid
Colour:	Yellowish
Odour:	Weak, characteristic

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<b>Odour threshold:</b>	Not determined.
<b>pH-value:</b>	≈ 7 (DIN ISO 976)
<b>Change in condition</b>	
<b>Melting point/freezing point:</b>	Undetermined
<b>Initial boiling point and boiling range:</b>	≈ 100 °C (water)
<b>Flash point:</b>	Not applicable.
<b>Flammability (solid, gaseous)</b>	Not applicable.
<b>Ignition temperature:</b>	Not applicable.
<b>Decomposition temperature:</b>	Not determined.
<b>Self-igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Oxidising properties:</b>	None.
<b>Vapour pressure:</b>	Not determined.
<b>Density at 20 °C:</b>	≈ 0.99 g/cm <sup>3</sup> (DIN EN ISO 2811-1)
<b>Relative density:</b>	Not determined.
<b>Vapour density:</b>	Not determined.
<b>Evaporation rate:</b>	Not determined.
<b>Solubility in / Miscibility with Water:</b>	Fully miscible.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>dynamic at 23 °C:</b>	≈ 29 mPas (DIN EN ISO 3219)
<b>kinematic:</b>	Not determined.
<b>Solvent content:</b>	
<b>Water:</b>	≈ 60 %

## **9.2. Other information**

No further relevant information available.

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## **SECTION 10: Stability and reactivity**

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### **10.1. Reactivity**

No further relevant information available.

### **10.2. Chemical stability**

**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

### **10.3. Possibility of hazardous reactions**

No dangerous reactions known.

### **10.4. Conditions to avoid**

No further relevant information available.

### **10.5. Incompatible materials**

No further relevant information available.

### **10.6. Hazardous decomposition products**

No dangerous decomposition products known.

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## **SECTION 11: Toxicological Information**

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### **11.1. Information on toxicological effects**

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

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### LD/LC50 values relevant for classification:

Alcohols, ethoxylated (polymer, monomers EINECS listed)		
Oral	LD50	300 – 2000 mg/kg (rat)
CAS: 9014-85-1 ethoxylated, 2,4,7,9-tetramethyl 5 decyn-4,7-diol		
Oral	LD50	6300 mg/kg (rat)
CAS: 68920-66-1 Alcohols, C16-C18 und C18 unsaturated, ethoxylated		
Oral	LD50	>200 mg/kg (rat)
CAS: 52-51-7 2-bromo-2-nitropropane-1,3-diol		
Oral	LD50	307 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
CAS: 55965-84-9 Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)		
Oral	LD50	49,6 – 75 mg/kg (rat)
Dermal	LD50	141 mg/kg (rabbit)
Inhalative	LC50 / 4h	0,33 mg/l (rat) (Aerosol)

### Primary irritant effect:

#### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

#### Serious eye damage/irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

May cause an allergic skin reaction.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

##### Germ cell mutagenicity.

Based on available data, the classification criteria are not met.

##### Carcinogenicity

Based on available data, the classification criteria are not met.

##### Reproductive toxicity

Based on available data, the classification criteria are not met.

##### STOT-single exposure

Based on available data, the classification criteria are not met.

##### STOT-repeated exposure

Based on available data, the classification criteria are not met.

##### Aspiration hazard

Based on available data, the classification criteria are not met.

## SECTION 12: Ecological Information

### 12.1. Toxicity

Aquatic toxicity:	
Alcohols, ethoxylated (polymer, monomers EINECS listet)	
LC50	0,1 – 1 mg/l (fish) (96 h)
NOEC	< 1 mg/l (alga) (72 h)
CAS: 914-85-1 ethoxylated 2,4,7,9-tetramethyl 5 decyn-4,7 diol	
EC50	105 mg/l (alga) (Skeletonema costatum / 72 h)
LC50	52 mg/l (fish) (Scophthalmus maximus / 96 h)

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CAS: 52-51-7 2-bromo-2-nitropropane-1,3-diol	
EC50	0,4 – 2,8 mg/l (alga) (green alga / 72 h) 1,4 mg/l (daphnia) (Daphnia magna / 48 h)
LC50	41,2 mg/l (fish) (Oncorhynchus mykiss / 96 h)
CAS: 55965-84-9 Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	
EC50	0,018 mg/l (alga) (Pseudokirchneriella subcapitata / 72 h) 4,5 mg/l (bacteria) (activated sludge) 0,16 mg/l (daphnia) (Daphnia magna / 48 h)
LC50	0,19 mg/l (fish) (Oncorhynchus mykiss / 96 h)

## **12.2. Persistence and degradability**

No further relevant information available.

## **12.3. Bioaccumulative potential**

No further relevant information available.

## **12.4. Mobility in soil**

No further relevant information available.

## **Additional ecological information:**

### **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

## **12.5. Results of PBT an vPvB assessment**

According to Annex XIV of Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification.

## **12.6. Other adverse effects**

No further relevant information available.

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## **SECTION 13: Disposal considerations**

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### **13.1. Waste treatment methods**

#### **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### **European waste catalogue**

07 07 01\* aqueous washing liquids and mother liquors

#### **Uncleaned packaging:**

##### **Recommendation:**

Disposal must be made according to official regulations.

#### **Recommended cleansing agents:**

Water, if necessary together with cleansing agents.

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## SECTION 14: Transport Information

### Land transport (ADR/RID)

<b>14.1. UN number:</b>	No hazardous material according to transport regulations.
<b>14.2. UN proper shipping name:</b>	
<b>14.3. Transport hazard class(es):</b>	
<b>14.4. Packing group:</b>	
Hazard label:	
Classification code:	
Limited quantity:	
Transport category:	
Hazard No:	
Tunnel restriction code:	
<b>Other applicable information (land transport)</b>	

### Marine transport (IMDG)

<b>14.1. UN number:</b>	No hazardous material according to transport regulations.
<b>14.2. UN proper shipping name:</b>	
<b>14.3. Transport hazard class(es):</b>	
<b>14.4. Packaging group:</b>	
Hazard label:	
Limited quantity:	
EmS:	
<b>Other applicable information (marine transport):</b>	

### Air transport (ICAO)

<b>14.1. UN number:</b>	No hazardous material according to transport regulations.
<b>14.2. UN proper shipping name:</b>	
<b>14.3. Transport hazard class(es):</b>	
<b>14.4. Packaging group:</b>	
Hazard label:	
Limited quantity Passenger:	
<b>Other applicable information (air transport)</b>	

### 14.5. Environmental hazards

Product contains environmentally hazardous substances: Naphtha (petroleum), hydrotreated light

**Marine pollutant:** No.

### 14.6. Special precautions for user

Not applicable.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

## Section 15. Regulatory Information

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

**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

**National regulations:**

#### **Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

**Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.



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## 15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other Information

### Relevant phrases (number and full text)

#### Hazard statements

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Abbreviations and acronyms

ADR	Accord européen sur le transport des marchandises dangereuses par Route (European 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 %
LD50	Lethal dose, 50 %
PBT	Persistent, Bioaccumulative and Toxic
SVHC	Substances of Very High Concern
vPvB	very Persistent and very Bioaccumulative
Acute Tox. 3:	Acute toxicity – Category 3
Acute Tox. 4:	Acute toxicity – Category 4
Skin Corr. 1B:	Skin corrosion / irritating – Category 1B
Eye Dam.1:	Serious eye damage / eye irritation – Category 1
Eye Irrit. 2:	Serious eye damage/eye irritation – Category 2
Skin Irrit. 2	Skin corrosion/irritation, Hazard Category 2
Skin Sens. 1:	Skin sensitisation – Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Hazard Category 3
Aquatic Acute 1:	Hazardous to the aquatic environment – acute aquatic hazard – Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – long-term aquatic hazard – Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3

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**Further information**

The 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. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.