

**SAFETY DATA SHEET (EC 1907/2006)****Flussmittel T**

Version: **1.7 / GB**  
Revision date: **20.09.2017**  
Issue date: **03.09.2001**  
replaces version: **1.6**  
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Material no.  
Specification **102909**  
VA-Nr **01906661**

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name **Flussmittel T**  
REACH Registration No.: **if available listed in Chapter. 3**

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

Relevant applications identified **For dental use only.**

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

Company **DeguDent GmbH**  
**Postfach 1364**  
**D-63403 Hanau**  
  
Telephone **+49 (0)6181/59-5576**  
Telefax **+49 (0)6181/59-5879**  
Email address **SDB.Degudent-DE@dentsplysirona.com**

**1.4. Emergency telephone number**

Emergency information **+49 (0)6181/59-50 (This telephone number is available during office hours only.)**

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Reproductive toxicity **Category 1B** **H360**

**2.2. Label elements****Labelling as per (EU) 1272/2008**

Statutory basis **EU-CLP as per Regulation (EU) No. 1272/2008, Annex VI**

**hazard-defining component(s) (GHS)**

- boric acid

Hazard pictograms



Signal word **Danger**

Hazard statement **H360 - May damage fertility or the unborn child.**

Precautionary statement: **P202 - Do not handle until all safety precautions have been read and understood.**  
Prevention **P280 - Wear protective gloves/protective clothing/eye protection/face protection.**

Precautionary statement: **P308 + P313 - IF exposed or concerned: Get medical advice/ attention.**  
Reaction

Precautionary statement: **P405 - Store locked up.**  
Storage

Precautionary statement: **P501 - Dispose of contents/ container to an approved waste disposal plant.**  
Disposal

**2.3. Other hazards**

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

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**SECTION 3: Composition/information on ingredients****Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008**

<b>• tri-Sodium phosphate dodecahydrate</b>		<b>&lt;= 20%</b>	
CAS-No.	10101-89-0		
Skin irritation		Category 2	H315
Eye irritation		Category 2	H319
<b>• boric acid</b>		<b>&lt;= 20%</b>	
CAS-No.	10043-35-3	EC-No.	233-139-2
Reproductive toxicity		Category 1B	H360FD
<b>• disodium tetraborate pentahydrate, borax pentahydrate</b>		<b>&lt;= 5.5%</b>	
CAS-No.	12179-04-3	EC-No.	215-540-4
Reproductive toxicity		Category 1B	H360FD
<b>•</b>		<b>&lt;= 1%</b>	
CAS-No.	1310-58-3	EC-No.	215-181-3
Acute toxicity		Category 4	H302
Skin corrosion/irritation		Category 1A	H314

Texts of H phrases, see in Chapter 16

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

Remove contaminated or saturated clothing.

**Inhalation**

Move victims into fresh air.

If breathing difficulties occur:

Keep patient half sitting with upper body raised.

Call a physician immediately.

**Skin contact**

Wash off immediately with plenty of water.

Take off contaminated clothing and shoes immediately.

Obtain medical attention.

**Eye contact**

With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes.

Remove contact lenses.

In case of persistent discomfort:

Consult an ophthalmologist.

**Ingestion**

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Call a physician immediately.

Take victim immediately to hospital.

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

Inhalation may provoke the following symptoms:

Shortness of breath

Asthma

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

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Symptomatic treatment.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: All extinguishing substances suitable.

Unsuitable extinguishing media: High volume water jet

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

Do not inhale decomposition gases or noxious gases.

#### 5.3. Advice for firefighters

Extinction measures are to be adjusted to the specific location.

Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6: Accidental release measures

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

Ensure sufficient ventilation. Use personal protective equipment.

Avoid contact with skin, eyes and clothing.

#### 6.2. Environmental precautions

Do not allow substance to enter soil, bodies of water or sewage canals.

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

Pick up mechanically with a suitable material and collect in a suitable container.

#### 6.4. Reference to other sections

Wear personal protective equipment; see section 8.

Disposal considerations; see section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Ensure suitable suction/aeration at the work place and with operational machinery.

If necessary: Local ventilation.

Do not breathe vapour.

Avoid contact with skin, eyes and clothing.

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

##### Advice on protection against fire and explosion

Normal measures for preventive fire protection.

##### Storage

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

Store in original container.

Protect from direct sunlight.

##### German storage class

13 - Non Combustible Solids

#### 7.3. Specific end use(s)

We are unaware of any specific end uses which go beyond the data reported in Section 1.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### • disodium tetraborate pentahydrate, borax pentahydrate

CAS-No. 12179-04-3

EC-No. 215-540-4

Control parameters 1 mg/m<sup>3</sup>

Time Weighted Average (TWA):(EH40 WEL)

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CAS-No.	1310-58-3	EC-No.	215-181-3
Control parameters	2 mg/m3		Short Term Exposure Limit (STEL):(EH40 WEL)

### 8.2. Exposure controls

#### Engineering measures

Ensure suitable suction/aeration at the work place and with operational machinery., If necessary: Local ventilation., Installation of eye bath recommended

#### Personal protective equipment

#### Respiratory protection

In case of working with / without sufficient object exhaustion:, If workplace exposure limit is exceeded apply respirator with ABEK-P3 combination filter.

#### Hand protection

Wear protective gloves made of the following materials:.

Glove material Nitrile rubber/Nitrile latex (NBR)

Material thickness 0.4 mm

Break through time > 240 min

#### Eye/face protection

Safety glasses with side-shields

#### Skin and body protection

suitable protective clothing recommended

#### Hygiene measures

Do not eat, drink, smoke, or sniff while at work. Wash your hands and/or face before breaks and before termination of work., Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: Physical and chemical properties

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

#### Appearance

Form dispersion  
Colour yellow

Odour odourless

Odour threshold: not applicable

pH ca. 8  
Melting point/range not known

Boiling point/range not known

Flash point Method: closed cup  
does not flash

Evaporation rate No data available

Flammability (solid, gas) not flammable

Lower explosion limit not applicable

Upper explosion limit not applicable

Vapour pressure not applicable

Density ca. 1.1 g/cm3

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Water solubility	not known
Partition coefficient: n-octanol/water	no data available
Autoinflammability	Not capable of spontaneous combustion or heating.
Thermal decomposition	No data available
Viscosity, dynamic	no data available
Explosiveness	not applicable
Oxidizing properties	not oxidizing

### 9.2. Other information

Other information No further physicochemical data were determined.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

no data available

### 10.2. Chemical stability

The product is chemically stable.

### 10.3. Possibility of hazardous reactions

Stability Stable at room temperature.  
Possibility of hazardous reactions No hazardous reactions are known if properly handled and stored.

### 10.4. Conditions to avoid

No limitations

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute oral toxicity	LD50 Rat: > 5110 mg/kg
Acute inhalation toxicity	no data available
Acute dermal toxicity	no data available
Skin irritation	Rabbit / 4 h No skin irritation Method: OECD Guide-line 404
Eye irritation	Rabbit / 72 h No eye irritation Method: OECD Guide-line 405
Sensitization	no data available
Repeated dose toxicity	no data available

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Assessment of STOT single exposure	no data available
Assessment of STOT repeat exposure	no data available
Mutagenicity assessment	no data available
Carcinogenicity	No data available
Toxicity to reproduction	no data available

## SECTION 12: Ecological information

### 12.1. Toxicity

*No ecotoxicological studies are available.*

### 12.2. Persistence and degradability

Biodegradability no data available

### 12.3. Bioaccumulative potential

Bioaccumulation no data available

### 12.4. Mobility in soil

Mobility No data available

### 12.5. Results of PBT and vPvB assessment

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

### 12.6. Other adverse effects

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Product

Disposal according to local authority regulations.

#### Uncleaned packaging

Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities.

## SECTION 14: Transport information

**Not dangerous according to transport regulations.**

14.1. UN number:	--
14.2. UN proper shipping name:	--
14.3. Transport hazard class(es):	--
14.4. Packing group:	--
14.5. Environmental hazards:	--
14.6. Special precautions for user:	No

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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National legislation**

employment restriction

Note employment restrictions for pregnant and lactating women., Note employment restrictions for minors.

**15.2. Chemical safety assessment**

Chemical safety assessment

No Chemical Safety Report as per Articles 2(8), 2(9) or 14 of the REACH Regulation is required for this product.

**SECTION 16: Other information****Relevant H phrases from chapter 3**

H302 : Harmful if swallowed.  
H314 : Causes severe skin burns and eye damage.  
H315 : Causes skin irritation.  
H319 : Causes serious eye irritation.  
H360FD : May damage fertility. May damage the unborn child.

**Further information**

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

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

**Legend**

**ADR** European Agreement concerning the International Carriage of Dangerous Goods by Road  
**ADN** European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
**ASTM** American Society for Testing and Materials  
**ATP** Adaptation to Technical Progress  
**BCF** Bioconcentration factor  
**BetrSichV** German Ordinance on Industrial Safety and Health  
**c.c.** closed cup  
**CAS** Chemical Abstract Services  
**CESIO** European Committee of Organic Surfactants and their Intermediates  
**ChemG** German Chemicals Act  
**CMR** carcinogenic-mutagenic-toxic for reproduction  
**DIN** German Institute for Standardization  
**DMEL** Derived minimum effect level  
**DNEL** Derived no effect level  
**EINECS** European Inventory of Existing Commercial Chemical Substances  
**EC50** half maximal effective concentration  
**GefStoffV** German Ordinance on Hazardous Substances  
**GGVSEB** German ordinance for road, rail and inland waterway transportation of dangerous goods

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<b>GGVSee</b>	German ordinance for sea transportation of dangerous goods
<b>GLP</b>	Good Laboratory Practice
<b>GMO</b>	Genetic Modified Organism
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Organization
<b>IMDG</b>	International Maritime Dangerous Goods
<b>ISO</b>	International Organization For Standardization
<b>LOAEL</b>	Lowest observed adverse effect level
<b>LOEL</b>	Lowest observed effect level
<b>NOAEL</b>	No observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>PNEC</b>	Predicted no effect concentration
<b>REACH</b>	REACH registration
<b>RID</b>	Convention concerning International Carriage by Rail
<b>STOT</b>	Specific Target Organ Toxicity
<b>SVHC</b>	Substances of Very High Concern
<b>TA</b>	Technical Instructions
<b>TPR</b>	Third Party Representative (Art. 4)
<b>TRGS</b>	Technical Rules for Hazardous Substances
<b>VCI</b>	German chemical industry association
<b>vPvB</b>	very persistent, very bioaccumulative
<b>VOC</b>	volatile organic compounds
<b>VwVwS</b>	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
<b>WGK</b>	Water Hazard Class
<b>WHO</b>	World Health Organization