

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

Version:	1.7 / GB	Material no.	
Revision date:	20.09.2017	Specification	102909
Issue date:	03.09.2001	VA-Nr	01906661
replaces version:	1.6		
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**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.
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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.)
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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
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2.2. Label elements**Labelling as per (EU) 1272/2008**

Statutory basis	EU-CLP as per Regulation (EU) No. 1272/2008, Annex VI
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hazard-defining component(s) (GHS)

- boric acid

Hazard pictograms



Signal word	Danger
Hazard statement	H360 - May damage fertility or the unborn child.
Precautionary statement: Prevention	P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement: Reaction	P308 + P313 - IF exposed or concerned: Get medical advice/ attention.
Precautionary statement: Storage	P405 - Store locked up.
Precautionary statement: Disposal	P501 - Dispose of contents/ container to an approved waste disposal plant.

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**

• tri-Sodium phosphate dodecahydrate		<= 20%	
CAS-No.	10101-89-0		
Skin irritation		Category 2	H315
Eye irritation		Category 2	H319
• boric acid		<= 20%	
CAS-No.	10043-35-3	EC-No.	233-139-2
Reproductive toxicity		Category 1B	H360FD
• disodium tetraborate pentahydrate, borax pentahydrate		<= 5.5%	
CAS-No.	12179-04-3	EC-No.	215-540-4
Reproductive toxicity		Category 1B	H360FD
•		<= 1%	
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/m³

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.

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