



**913 Bremsen Pflege+ MP91300200AB**

Print date: 07.12.2016

Product code: 1101185

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

**1.1. Product identifier**

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

**Use of the substance/mixture**

No information available.

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

|               |  |          |                        |
|---------------|--|----------|------------------------|
| Company name: | TUNAP Deutschland Vertriebs GmbH & Co. Betriebs KG |          |                        |
| Street:       | Bürgermeister-Seidl-Str. 2                         |          |                        |
| Place:        | D-82515 Wolfratshausen                             |          |                        |
| Telephone:    | +49 (0) 8171/1600 - 0                              | Telefax: | +49 (0) 8171/1600 - 40 |
| e-mail:       | sdb@tunap.com                                      |          |                        |
| Internet:     | www.tunap.com                                      |          |                        |

**1.4. Emergency telephone number:** +49 (0) 30 30 686 790 (Giftnotruf Berlin)

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Regulation (EC) No. 1272/2008**

Hazard categories:

Aerosol: Aerosol 2

Respiratory or skin sensitisation: Skin Sens. 1B

Hazard Statements:

Flammable aerosol.

Pressurised container: May burst if heated.

May cause an allergic skin reaction.

**2.2. Label elements**

**Regulation (EC) No. 1272/2008**

**Signal word:** Warning

**Hazard statements**

H229 Pressurised container: May burst if heated.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear eye/face protection.

P262 Do not get in eyes, on skin, or on clothing.

P302+P352 IF ON SKIN: Wash with plenty of Water and soap..

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P251 Do not pierce or burn, even after use.

**Special labelling of certain mixtures**

EUH208 Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts; Sulfonic acids, petroleum, calcium salts; Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts. May produce an allergic reaction.

**2.3. Other hazards**

No information available.



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**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Hazardous components**

| CAS No     | Chemical name   | Quantity  |
|------------|---|-----------|
|            | EC No   |           |
|            | Index No  |           |
|            | REACH No  |           |
|            | Classification according to Regulation (EC) No. 1272/2008 [CLP] |           |
| 68584-23-6 | Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts       | 3 - < 5 % |
|            | 271-529-4   |           |
|            | Skin Sens. 1B; H317   |           |
| 61789-86-4 | Sulfonic acids, petroleum, calcium salts                        | 1 - < 3 % |
|            | 263-093-9   |           |
|            | Skin Sens. 1B; H317   |           |
| 70024-69-0 | Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts  | 1 - < 3 % |
|            | 274-263-7   |           |
|            | 01-2119492616-28  |           |
|            | Skin Sens. 1B; H317   |           |

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

**After inhalation**

Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

**After contact with skin**

Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice.

**After contact with eyes**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink plenty of water.

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

No information available.

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

Treat symptomatically.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

High power water jet.



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

Non-flammable.

**5.3. Advice for firefighters**

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.

**SECTION 6: Accidental release measures**

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

Use personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**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**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Do not pierce or burn, even after use.

**Advice on protection against fire and explosion**

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

**Requirements for storage rooms and vessels**

Keep container tightly closed.

**Advice on storage compatibility**

No special measures are necessary.

**Further information on storage conditions**

Protect from frost. Protect against direct sunlight. Store in a cool dry place. Observe legal regulations and provisions.

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

No information available.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure limits (EH40)**

| CAS No     | Substance                    | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|------------|------------------------------|-----|-------------------|-----------|---------------|--------|
| 13463-67-7 | Titanium dioxide, respirable | -   | 4                 |           | TWA (8 h)     | WEL    |
|            |                              | -   | -                 |           | STEL (15 min) | WEL    |

**Additional advice on limit values**

a no restriction

b End of exposure or shift



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c in long-term exposure: after several shifts  
d prior to next shift

STEL (EC) : Short Term Exposure Limit  
TWA (EC): time-weighted average  
U: Urea  
B: Blood

**8.2. Exposure controls**

**Protective and hygiene measures**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

Protect skin by using skin protective cream. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: NBR (Nitrile rubber) Breakthrough time (maximum wearing time) 480min

Thickness of the glove material 0,45 mm

DIN EN 374

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

When exceeding the relevant workplace exposure limits, note the following:

Suitable respiratory protective equipment: Combination filter device (DIN EN 141)..

Filtering device with filter or ventilator filtering device of type: A

Observe the wear time limits as specified by the manufacturer.

Observe legal regulations and provisions.

**Environmental exposure controls**

Observe legal regulations and provisions.

**SECTION 9: Physical and chemical properties**

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

Physical state: Aerosol  
Colour: blue  
Odour: characteristic

pH-Value (at 20 °C): not determined **Test method** DIN 19268

**Changes in the physical state**

Melting point: not determined

Initial boiling point and boiling range: No information available.

Flash point: > 200 °C

**Flammability**

Solid: not determined

Gas: not applicable

Lower explosion limits: No information available.

Upper explosion limits: No information available.



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**Auto-ignition temperature**

Solid: not determined  
Gas: not applicable

Decomposition temperature: not determined

**Oxidizing properties**

Not oxidizing.

Vapour pressure: not determined

Vapour pressure: No information available.

Density: 1,2 g/cm<sup>3</sup> DIN 51757

Bulk density: not applicable

Water solubility: insoluble

**Solubility in other solvents**

not determined

Partition coefficient: not determined

Viscosity / dynamic: No information available.

Viscosity / kinematic: No information available.

Flow time: not applicable

Vapour density: not determined

Evaporation rate: not determined

Solvent separation test: No information available.

Solvent content: No information available.

**9.2. Other information**

Solid content: not determined

Data apply to technical substance: Density, Colour, Odour, Viscosity, pH.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

**10.4. Conditions to avoid**

Protect from frost.

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO<sub>2</sub>, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

**Further information**

Do not mix with other chemicals.

**SECTION 11: Toxicological information**



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**11.1. Information on toxicological effects**

**Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

**Acute toxicity**

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

| CAS No     | Chemical name  |                   |         |        |
|------------|--|-------------------|---------|--------|
|            | Exposure route   | Dose              | Species | Source |
| 68584-23-6 | Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts      |                   |         |        |
|            | oral   | LD50 >5000 mg/kg  | Rat     |        |
|            | dermal   | LD50 >5000 mg/kg  | Rat     |        |
|            | inhalative (4 h) aerosol                                       | LC50 >5 mg/l      | Rat     |        |
| 61789-86-4 | Sulfonic acids, petroleum, calcium salts                       |                   |         |        |
|            | oral   | LD50 >16000 mg/kg | Rat     |        |
|            | dermal   | LD50 >4000 mg/kg  | Rabbit  |        |
| 70024-69-0 | Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts |                   |         |        |
|            | oral   | LD50 >10000 mg/kg | Rat     |        |
|            | dermal   | LD50 >2000 mg/kg  | Rabbit  |        |
|            | inhalative (4 h) aerosol                                       | LC50 >5 mg/l      | Rat     |        |

**Irritation and corrosivity**

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

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

No indications of human carcinogenicity exist.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

**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.

**Specific effects in experiment on an animal**

No information available.

**SECTION 12: Ecological information**

**12.1. Toxicity**

The product is not: Ecotoxic.



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| CAS No     | Chemical name  |                  |           |                                     |        |
|------------|--|------------------|-----------|-------------------------------------|--------|
|            | Aquatic toxicity   | Dose             | [h]   [d] | Species                             | Source |
| 68584-23-6 | Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts      |                  |           |                                     |        |
|            | Acute fish toxicity  | LC50 >10000 mg/l | 96 h      | Oncorhynchus mykiss (Rainbow trout) |        |
|            | Acute algae toxicity   | ErC50 >1000 mg/l | 96 h      | Scenedesmus subspicatus             |        |
|            | Acute crustacea toxicity                                       | EC50 >1000 mg/l  | 48 h      | Daphnia magna                       |        |
| 70024-69-0 | Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts |                  |           |                                     |        |
|            | Acute fish toxicity  | LC50 >10000 mg/l | 96 h      | Cyprinus carpio (Common Carp)       |        |
|            | Acute algae toxicity   | ErC50 >1000 mg/l | 96 h      | Selenastrum capricornutum           |        |
|            | Acute crustacea toxicity                                       | EC50 >1000 mg/l  | 48 h      | Daphnia magna (Big water flea)      |        |

**12.2. Persistence and degradability**

The product has not been tested.

**12.3. Bioaccumulative potential**

The product has not been tested.

**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

The product has not been tested.

**12.6. Other adverse effects**

No information available.

**Further information**

Avoid release to the environment.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Advice on disposal**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

**Waste disposal number of waste from residues/unused products**

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances  
Classified as hazardous waste.

**Waste disposal number of used product**

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances  
Classified as hazardous waste.

**Waste disposal number of contaminated packaging**

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

**Contaminated packaging**

Completely emptied packages can be recycled.



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**SECTION 14: Transport information**

**Land transport (ADR/RID)**

|  |                 |
|--|-----------------|
| <b>14.1. UN number:</b>                  | UN 1950         |
| <b>14.2. UN proper shipping name:</b>    | AEROSOLS        |
| <b>14.3. Transport hazard class(es):</b> | 2               |
| <b>14.4. Packing group:</b>              | -               |
| Hazard label:                            | 2.2             |
| Classification code:                     | 5A              |
| Special Provisions:                      | 190 327 344 625 |
| Limited quantity:                        | 1 L             |
| Excepted quantity:                       | E0              |
| Transport category:                      | 3               |
| Tunnel restriction code:                 | E               |

**Inland waterways transport (ADN)**

|  |                 |
|--|-----------------|
| <b>14.1. UN number:</b>                  | UN 1950         |
| <b>14.2. UN proper shipping name:</b>    | AEROSOLS        |
| <b>14.3. Transport hazard class(es):</b> | 2               |
| <b>14.4. Packing group:</b>              | -               |
| Hazard label:                            | 2.2             |
| Classification code:                     | 5A              |
| Special Provisions:                      | 190 327 344 625 |
| Limited quantity:                        | 1 L             |
| Excepted quantity:                       | E0              |

**Marine transport (IMDG)**

|  |                             |
|--|-----------------------------|
| <b>14.1. UN number:</b>                  | UN 1950                     |
| <b>14.2. UN proper shipping name:</b>    | AEROSOLS                    |
| <b>14.3. Transport hazard class(es):</b> | 2                           |
| <b>14.4. Packing group:</b>              | -                           |
| Hazard label:                            | 2, see SP63                 |
| Marine pollutant:                        | no                          |
| Special Provisions:                      | 63, 190, 277, 327, 344, 959 |
| Limited quantity:                        | See SP277                   |
| Excepted quantity:                       | E0                          |
| EmS:                                     | F-D, S-U                    |

**Air transport (ICAO)**

|  |                         |
|--|-------------------------|
| <b>14.1. UN number:</b>                  | UN 1950                 |
| <b>14.2. UN proper shipping name:</b>    | AEROSOLS, non-flammable |
| <b>14.3. Transport hazard class(es):</b> | 2.2                     |
| <b>14.4. Packing group:</b>              | -                       |
| Hazard label:                            | 2.2                     |
| Special Provisions:                      | A98 A145 A167 A802      |
| Limited quantity Passenger:              | 30 kg G                 |
| Passenger LQ:                            | Y203                    |
| Excepted quantity:                       | E0                      |
| IATA-packing instructions - Passenger:   | 203                     |
| IATA-max. quantity - Passenger:          | 75 kg                   |
| IATA-packing instructions - Cargo:       | 203                     |





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IATA-max. quantity - Cargo: 150 kg

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

No information available.

**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 and environmental regulations/legislation specific for the substance or mixture**

**EU regulatory information**

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

**Additional information**

Aerosol directive (75/324/EEC).

**National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

**SECTION 16: Other information**

**Changes**

This data sheet contains changes from the previous version in section(s): 1,2.

**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

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

**Relevant H and EUH statements (number and full text)**

H229 Pressurised container: May burst if heated.

H317 May cause an allergic skin reaction.

EUH208 Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts; Sulfonic acids, petroleum, calcium salts; Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts.  
May produce an allergic reaction.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. 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.

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