

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## TIP TOP ADHESIVE TC 5000

Revision date: 11.04.2017

Product code: 00359-1237

Page 1 of 10

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

#### 1.1. Product identifier

TIP TOP ADHESIVE TC 5000

Art.-No.

525 2217, 525 2224, 525 2286, 525 2293, 525 2389

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

Use of the substance/mixture

adhesive

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

Company name: TIP TOP Oberflächenschutz Elbe GmbH

Street: Heuweg 4

Place: D-06886 Wittenberg

Telephone: +49(0)3491/635-50

Telefax: +49(0)3491/635-552

Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de

#### 1.4. Emergency telephone number:

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)  
England and Wales: NHS Direct - 0845 4647; Scotland: NHS 24 - 08454 24 24  
24

### SECTION 2: Hazards identification

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

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

Hazard categories:

Flammable liquid: Flam. Liq. 3

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Flammable liquid and vapour.

Harmful in contact with skin or if inhaled.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

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

##### Hazard components for labelling

Xylene (mixed isomers)

Signal word: Warning

Pictograms:



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**TIP TOP ADHESIVE TC 5000**

Revision date: 11.04.2017

Product code: 00359-1237

Page 2 of 10

**Hazard statements**

|           |  |
|-----------|--|
| H226      | Flammable liquid and vapour.                                       |
| H312+H332 | Harmful in contact with skin or if inhaled.                        |
| H315      | Causes skin irritation.  |
| H319      | Causes serious eye irritation.                                     |
| H335      | May cause respiratory irritation.                                  |
| H373      | May cause damage to organs through prolonged or repeated exposure. |
| H412      | Harmful to aquatic life with long lasting effects.                 |

**Precautionary statements**

|                |  |
|----------------|--|
| P210           | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                   |
| P260           | Do not breathe vapour.   |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.                              |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312           | Call a POISON CENTER/doctor if you feel unwell.  |
| P273           | Avoid release to the environment.  |

**Special labelling of certain mixtures**

|        |  |
|--------|--|
| EUH208 | Contains Di(benzothiazol-2-yl) disulphide. May produce an allergic reaction. |
|--------|--|

**2.3. Other hazards**

Vapours may form explosive mixture with air.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Preparation in xylene

**Hazardous components**

| CAS No    | Chemical name   | Quantity     |                  |         |
|-----------|---|--------------|------------------|---------|
|           | EC No   | Index No     | REACH No         |         |
|           | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |              |                  |         |
| 1330-20-7 | Xylene (mixed isomers)  |              |                  | < 80 %  |
|           | 215-535-7   | 601-022-00-9 | 01-2119488216-32 |         |
|           | Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H312 H332 H315 H319 H335 H373 H304             |              |                  |         |
| 120-78-5  | Di(benzothiazol-2-yl) disulphide  |              |                  | < 1 %   |
|           | 204-424-9   | 613-135-00-0 | 01-2119489366-24 |         |
|           | Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H317 H400 H410 EUH031   |              |                  |         |
| 137-26-8  | Thiram  |              |                  | < 0,1 % |
|           | 205-286-2   | 006-005-00-4 | 01-2119492301-45 |         |
|           | Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H302 H332 H315 H319 H317 H373 H400 H410 |              |                  |         |

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

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**TIP TOP ADHESIVE TC 5000**

Revision date: 11.04.2017

Product code: 00359-1237

Page 3 of 10

**General information**

Remove contaminated soaked clothing immediately.  
In the event of persistent symptoms receive medical treatment.  
Take away from danger area and lay down affected person.

**After inhalation**

Move to fresh air in case of accidental inhalation of vapours.  
In the event of symptoms refer for medical treatment.

**After contact with skin**

Wash off immediately with soap and plenty of water.  
Treat subsequently with skin cream.  
Consult a doctor if skin irritation persists.

**After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids.  
Seek medical treatment by eye specialist.

**After ingestion**

Do not induce vomiting.  
Rinse out mouth and give plenty of water to drink.  
Never give anything by mouth to an unconscious person.  
Summon a doctor immediately.  
The decision whether to induce vomiting or not is to be taken by a physician.

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

Harmful in contact with skin or if inhaled.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure.

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

Treat symptoms.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water-spray.

**Unsuitable extinguishing media**

Full water jet.

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

Fire may produce:  
carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and sulphur oxides (SO<sub>x</sub>)  
Bromine compounds

**5.3. Advice for firefighters**

Use breathing apparatus with independent air supply.  
Protective suit.

**Additional information**

Vapours are heavier than air and spread along ground.  
The vapour/air mixture is explosive, even in empty, uncleaned receptacles.  
Cool containers at risk with water spray jet.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**TIP TOP ADHESIVE TC 5000**

Revision date: 11.04.2017

Product code: 00359-1237

Page 4 of 10

In case of vapour formation use respirator.  
Ensure adequate ventilation.  
Use personal protective clothing.  
Keep away sources of ignition.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/ground water.

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).  
Shovel into suitable container for disposal.  
Clean contaminated surface thoroughly.

**6.4. Reference to other sections**

Observe protective instructions (see Sections 7 and 8).  
Information for disposal see section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Keep container tightly closed.  
Use only in area provided with appropriate exhaust ventilation.  
In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

**Advice on protection against fire and explosion**

Keep product and empty container away from heat and sources of ignition.  
Pay attention to anti-explosion rules.  
Do not smoke.  
Take precautionary measures against static discharges.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep containers tightly closed in a cool, well-ventilated place.  
Keep away from heat and sources of ignition.

**Advice on storage compatibility**

Incompatible with oxidizing agents.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

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

adhesive

**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 |
|-----------|-----------------------|-----|-------------------|-----------|---------------|--------|
| 1333-86-4 | Carbon black          | -   | 3.5               |           | TWA (8 h)     | WEL    |
|           |                       | -   | 7                 |           | STEL (15 min) | WEL    |
| 1330-20-7 | Xylene: mixed isomers | 50  | 220               |           | TWA (8 h)     | WEL    |
|           |                       | 100 | 441               |           | STEL (15 min) | WEL    |

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**TIP TOP ADHESIVE TC 5000**

Revision date: 11.04.2017

Product code: 00359-1237

Page 5 of 10

**Biological Monitoring Guidance Values (EH40)**

| CAS No    | Substance                           | Parameter            | Value        | Test material | Sampling time |
|-----------|-------------------------------------|----------------------|--------------|---------------|---------------|
| 1330-20-7 | Xylene, o-, m-, p- or mixed isomers | methyl hippuric acid | 650 mmol/mol | urine         | Post shift    |

**8.2. Exposure controls****Appropriate engineering controls**

- Ensure adequate ventilation, especially in confined areas.
- Pay attention to explosion protection guidelines.

**Protective and hygiene measures**

- Do not inhale vapours.
- Avoid contact with eyes and skin.
- Wash hands before breaks and immediately after handling the product.
- When using do not eat, drink or smoke.
- Remove and wash contaminated clothes before re-use.

**Eye/face protection**

- Tightly fitting goggles (EN 166).
- Eye wash bottle with pure water (EN 15154).

**Hand protection**

- Protective gloves resistant to chemicals made off viton, minimum coat thickness 0,7 mm, permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Vitoject 890> made by www.kcl.de. This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.
- Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

**Skin protection**

- Long sleeved clothing (EN 368).

**Respiratory protection**

- In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                 |                  |
|-----------------|------------------|
| Physical state: | Liquid           |
| Colour:         | Black            |
| Odour:          | Hydrocarbon-like |

**Test method****Changes in the physical state**

|  |                        |
|--|------------------------|
| Initial boiling point and boiling range: | 137 - 142 °C (*)       |
| Flash point:                             | 24 °C (*)              |
| Lower explosion limits:                  | 1,0 vol. % (*)         |
| Upper explosion limits:                  | 7,0 vol. % (*)         |
| Ignition temperature:                    | approx. 460 °C (*)     |
| Vapour pressure:<br>(at 20 °C)           | 8 hPa (*)              |
| Density (at 20 °C):                      | 0,91 g/cm <sup>3</sup> |
| Water solubility:                        | Immiscible             |
| Viscosity / dynamic:                     | approx. 2000 mPa·s     |

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**TIP TOP ADHESIVE TC 5000**

Revision date: 11.04.2017

Product code: 00359-1237

Page 6 of 10

Viscosity / kinematic: > 20,5 mm<sup>2</sup>/s  
(at 40 °C)

Solvent content: < 80 %

**9.2. Other information**

(\*) Xylene (mixed isomers)

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Reactions with oxidizing agents.

**10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

Vapours may form explosive mixture with air.

An inappropriate handling, for instance major amounts of product combined with strong heat and nitrosating agents, renders possible a cleavage of nitrosamines in traces.

**10.5. Incompatible materials**

Strong oxidizing agents.

**10.6. Hazardous decomposition products**

Carbon monoxide, carbon dioxide, sulphur oxides.  
bromine compounds

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

Harmful in contact with skin or if inhaled.

No toxicological data available.

**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye irritation.

**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.

**STOT-single exposure**

May cause respiratory irritation. (Xylene (mixed isomers))

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure. (Xylene (mixed isomers))

**Aspiration hazard**

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

**Additional information on tests**

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

**Practical experience****Other observations**

Inhalation of vapours in high concentration can cause narcotic effects.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP ADHESIVE TC 5000

Revision date: 11.04.2017

Product code: 00359-1237

Page 7 of 10

Inhalation of high vapour concentration may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.  
Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

#### SECTION 12: Ecological information

##### 12.1. Toxicity

Ecological data are not available.  
Harmful to aquatic life with long lasting effects.

##### 12.2. Persistence and degradability

No data available.

##### 12.3. Bioaccumulative potential

No data available.

##### 12.4. Mobility in soil

No data available.

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

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

##### 12.6. Other adverse effects

Hazardous water pollutant.

##### **Further information**

Do not flush into surface water or sanitary sewer system.

#### SECTION 13: Disposal considerations

##### 13.1. Waste treatment methods

###### **Advice on disposal**

Where possible recycling is preferred to disposal.  
Can be incinerated, when in compliance with local regulations.

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

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

###### **Contaminated packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.  
Packaging that cannot be cleaned should be disposed of like the product.  
Empty containers should be taken for local recycling, recovery or waste disposal.

#### SECTION 14: Transport information

##### **Land transport (ADR/RID)**

|   |           |
|---|-----------|
| <b><u>14.1. UN number:</u></b>                  | UN 1133   |
| <b><u>14.2. UN proper shipping name:</u></b>    | Adhesives |
| <b><u>14.3. Transport hazard class(es):</u></b> | 3         |
| <b><u>14.4. Packing group:</u></b>              | III       |
| Hazard label:                                   | 3         |

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP ADHESIVE TC 5000

Revision date: 11.04.2017

Product code: 00359-1237

Page 8 of 10



Classification code: F1  
Limited quantity: 5 L / 30 kg  
Excepted quantity: E1  
Transport category: 3  
Hazard No: 30  
Tunnel restriction code: D/E

#### Inland waterways transport (ADN)

**14.1. UN number:** UN 1133  
**14.2. UN proper shipping name:** Adhesives  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



Classification code: F1  
Limited quantity: 5 L / 30 kg  
Excepted quantity: E1

#### Marine transport (IMDG)

**14.1. UN number:** UN 1133  
**14.2. UN proper shipping name:** Adhesives  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



Marine pollutant: No  
Limited quantity: 5 L / 30 kg  
Excepted quantity: E1  
EmS: F-E, S-D

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1133  
**14.2. UN proper shipping name:** Adhesives  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



Limited quantity Passenger: 10 L  
Passenger LQ: Y344  
Excepted quantity: E1  
IATA-packing instructions - Passenger: 355



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**TIP TOP ADHESIVE TC 5000**

Revision date: 11.04.2017

Product code: 00359-1237

Page 9 of 10

|                                    |       |
|------------------------------------|-------|
| IATA-max. quantity - Passenger:    | 60 L  |
| IATA-packing instructions - Cargo: | 366   |
| IATA-max. quantity - Cargo:        | 220 L |

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

Handle in accordance with good industrial hygiene and safety practice.

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

The transport takes place only in approved and appropriate packaging.

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

2004/42/EC (VOC): &lt; 80 %

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D): 2 - water contaminating

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
IMDG = International Maritime Code for Dangerous Goods  
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization  
MARPOL = International Convention for the Prevention of Pollution from Ships  
IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals  
CAS = Chemical Abstract Service  
EN = European norm  
ISO = International Organization for Standardization  
DIN = Deutsche Industrie Norm  
PBT = Persistent Bioaccumulative and Toxic  
vPvB = Very Persistent and very Bio-accumulative  
LD = Lethal dose  
LC = Lethal concentration  
EC = Effect concentration  
IC = Median immobilisation concentration or median inhibitory concentration

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

|      |   |
|------|---|
| H226 | Flammable liquid and vapour.                  |
| H302 | Harmful if swallowed.                         |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin.                 |

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**TIP TOP ADHESIVE TC 5000**

Revision date: 11.04.2017

Product code: 00359-1237

Page 10 of 10

|           |  |
|-----------|--|
| H312+H332 | Harmful in contact with skin or if inhaled.                                  |
| H315      | Causes skin irritation.  |
| H317      | May cause an allergic skin reaction.   |
| H319      | Causes serious eye irritation.   |
| H332      | Harmful if inhaled.  |
| H335      | May cause respiratory irritation.  |
| H373      | May cause damage to organs through prolonged or repeated exposure.           |
| H400      | Very toxic to aquatic life.  |
| H410      | Very toxic to aquatic life with long lasting effects.                        |
| H412      | Harmful to aquatic life with long lasting effects.                           |
| EUH031    | Contact with acids liberates toxic gas.                                      |
| EUH208    | Contains Di(benzothiazol-2-yl) disulphide. May produce an allergic reaction. |

**Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

---

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