

**TIP TOP REMAFIX PR 100**

Revision date: 10.01.2023

Product code: 00359-1064

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**1. Identification****Product identifier**

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**Art.-No.**

525 2901

**Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Primer Coat

**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

**Emergency telephone number:**

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)

**2. Hazard identification****Classification of the substance or mixture****WHMIS 2015**

Flammable liquid: Flam. Liq. 3

Acute toxicity: Acute Tox. 4 (inhalation)

Aspiration hazard: Asp. Tox. 1

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitization: Resp. Sens. 1

Respiratory or skin sensitization: Skin Sens. 1

Carcinogenicity: Carc. 2

Specific target organ toxicity - single exposure: STOT SE 3 (respiratory tract irritation)

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazardous to the aquatic environment: Aquatic Chronic 3

**Label elements****WHMIS 2015****Signal word:**

Danger

**Pictograms:****Hazard statements**

Flammable liquid and vapour.

Harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Suspected of causing cancer.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

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Harmful to aquatic life with long lasting effects.

### Precautionary statements

- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Do not breathe vapour.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- Do NOT induce vomiting.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF exposed or concerned: Get medical advice/attention.

### Other hazards

- According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.
- Vapours may form explosive mixture with air.

## 3. Composition/information on ingredients

### Mixtures

#### Chemical characterization

Mixture containing following substances with additives :

#### Hazardous components

CAS No	Chemical name	Quantity
1330-20-7	Xylene (mixed isomers)	25 - 50 %
9016-87-9	Diphenylmethanediisocyanate, isomeres and homologues	25 - 50 %
100-41-4	Ethyl benzene	5 - < 10% (*)
4083-64-1	Tosyl isocyanate	< 1 %

(\*) The actual concentration is withheld as a trade secret.

## 4. First-aid measures

### Description of first aid measures

#### 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.
- Keep under medical supervision for at least 48 hours.

#### After inhalation

- If patient is not breathing, apply artificial respiration.
- Move to fresh air in case of accidental inhalation of vapours.
- Refer for medical treatment.

#### After contact with skin

- Remove immediately adhering matter.
- Wash off immediately with soap and plenty of water.
- Consult a physician.

#### After contact with eyes

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Remove contact lenses, if present and easy to do. Continue rinsing.
- Seek medical treatment by eye specialist.

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### After ingestion

- Summon a doctor immediately.
- Do not induce vomiting.
- Rinse out mouth thoroughly with water.
- Never give anything by mouth to an unconscious person.
- Induce vomiting only upon the advice of a physician.
- Attention. Beware, danger of aspiration.

### Most important symptoms and effects, whether acute or delayed

- Harmful if inhaled.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause an allergic skin reaction.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Suspected of causing cancer.
- May cause respiratory irritation.
- May cause damage to organs through prolonged or repeated exposure.
- May be fatal if swallowed and enters airways.

### Indication of immediate medical attention and special treatment needed

- Treat symptoms.

## 5. Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media

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

#### Unsuitable extinguishing media

- Full water jet.

### Specific hazards arising from the hazardous product

- Fire may produce:  
Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).  
Hydrogen cyanide (HCN)

### Special protective equipment and precautions for fire-fighters

- Wear self-contained breathing apparatus and protective suit.

### Additional information

- Cool containers at risk with water spray jet.
- Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing.
- Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### General advice

- Ensure adequate ventilation.
- Remove persons to safety.
- Keep away sources of ignition.
- Attention. Hazard of skidding.

#### For non-emergency personnel

- Do not breathe vapours.
- Avoid contact with skin, eyes and clothing.

#### For emergency responders

- In case of vapour formation use respirator.
- Use personal protective clothing.



## Safety Data Sheet

according to WHMIS



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#### Environmental precautions

- Do not discharge into the drains/surface waters/groundwater.
- Do not discharge into the subsoil/soil.

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

##### **For containment**

- Prevent spread over a wide area (e.g. by containment or oil barriers).

##### **For cleaning up**

- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
- Shovel into suitable container for disposal.
- Container should not be gas-tight closed.
- Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

#### Reference to other sections

- Observe protective instructions (see Sections 7 and 8).
- Information for disposal look up chapter 13.

## 7. Handling and storage

#### Precautions for safe handling

##### **Advice on safe handling**

- Keep container tightly closed.
- Vapours are heavier than air and spread along ground.
- Avoid contact with the skin and the eyes.
- Do not breathe vapours.
- Local exhaust.
- Use only in thoroughly ventilated areas.

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

- Keep away from heat and sources of ignition.
- Vapours are heavier than air and spread along ground.
- Vapours can form an explosive mixture with air.
- Take precautionary measures against static discharges.

##### **Advice on general occupational hygiene**

- 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.
- Take off immediately all contaminated clothing.

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

##### **Requirements for storage rooms and vessels**

- Keep only in original container.
- Keep container tightly closed in a dry, cool and well-ventilated place.
- Protect against direct sun radiation.
- Protect from moisture.

##### **Hints on joint storage**

- Exothermic reaction with:
  - Acids and bases.
  - Water, amines, alcohols

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

- Keep away from food, drink and animal feeding stuffs.
- Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

## 8. Exposure controls/Personal protection

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### Control parameters

#### Exposure limits (ACGIH)

CAS No	Chemical name	ppm	mg/m <sup>3</sup>	F/ml	Category	Origin
100-41-4	Ethyl benzene	20			TWA (8 h)	ACGIH-2022
1330-20-7	Xylene: mixed isomers	20			TWA (8 h)	ACGIH-2022

#### Biological limit values

CAS No	Chemical name	Parameter	Value	Test material	Sampling time
1330-20-7	XYLENES (technical or commercial grade) (ACGIH 2022)	Methylhippuric acids (creatinine)	1.5 g/g	urine	End of shift
100-41-4	ETHYLBENZENE (ACGIH 2022)	Sum of mandelic acid and phenylglyoxylic acid (creatinine)	0.15 g/g	urine	End of shift

### Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Tightly fitting goggles.

Eye wash bottle with pure water.

##### 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.

Pls. find examples in the GISBAU protective gloves database under:

<http://www.wingisonline.de/handschuhe/frmMain.aspx>

##### Skin protection

Light protective clothing

##### Respiratory protection

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

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Brown
Odour:	Characteristic

#### Changes in the physical state

Melting point/freezing point:	n. d.
Boiling point or initial boiling point and boiling range:	137 °C
Sublimation point:	n.a.
Softening point:	n. d.
Flash point:	30 °C

#### Flammability

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Solid/liquid: n.a.  
Gas: n.a.

**Explosive properties**

The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated.

Lower explosive limits: 1,1 vol. %  
Upper explosive limits: 7,0 vol. %  
Auto-ignition temperature: 500 °C

**Self-ignition temperature**

Solid: n.a.  
Gas: n.a.

Decomposition temperature: n. d.

pH-Value: n. d.

Viscosity / dynamic: 100 mPa·s

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

Flow time: n. d.

Water solubility: Reacts with water

**Solubility in other solvents**

n. d.

Partition coefficient n-octanol/water: n. d.

Vapour pressure:  
(at 20 °C) 6,7 hPa

Density (at 20 °C): 0,98 g/cm<sup>3</sup>

Bulk density: n.a.

Relative vapour density: n. d.

**Other information****Information with regard to physical hazard classes**

Sustaining combustion: Sustaining combustion

Oxidizing properties  
Not oxidising.

**Other safety characteristics**

Solvent separation test: n. d.

Solvent content: 50 %

Solid content: 49,9 %

Evaporation rate: n. d.

**10. Stability and reactivity****Reactivity**

No decomposition if stored and applied as directed.

**Chemical stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.  
Reactions with strong acids and alkalies.

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### Conditions to avoid

Vapours may form explosive mixture with air.

### Incompatible materials

Acids and bases  
Water, amines, alcohols

### Hazardous decomposition products

No hazardous decomposition products known.  
Fire may produce:  
Hydrogen cyanide gas.  
Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>)

## 11. Toxicological information

### Information on toxicological effects

#### **Acute toxicity**

Harmful if inhaled.  
No toxicological data available.

#### **ATEmix calculated**

ATE (inhalation vapour) 16,64 mg/l; ATE (inhalation dust/mist) 2,269 mg/l

#### **Irritation and corrosivity**

Causes skin irritation.  
Causes serious eye irritation.

#### **Sensitizing effects**

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Diphenylmethanediisocyanate, isomeres and homologues; Tosyl isocyanate)  
May cause an allergic skin reaction. (Diphenylmethanediisocyanate, isomeres and homologues)

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

Suspected of causing cancer. (Diphenylmethanediisocyanate, isomeres and homologues)  
Germ cell mutagenicity: 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**

May cause respiratory irritation. (Xylene (mixed isomers); Diphenylmethanediisocyanate, isomeres and homologues)

#### **STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure. (Xylene (mixed isomers); Diphenylmethanediisocyanate, isomeres and homologues; Ethyl benzene)

#### **Aspiration hazard**

May be fatal if swallowed and enters airways.

#### **Information on likely routes of exposure**

Skin and eye contact, inhalation and ingestion.

#### **Additional information on tests**

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

### Information on other hazards

#### **Endocrine disrupting properties**

No data available

#### **Other information**

With hypersensitive people, reactions as cough or difficulty of breathing may appear even with tiny concentrations of isocyanates; therefore keep room aerated and ventilated.

## 12. Ecological information

### Ecotoxicity

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

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### Other adverse effects

Hazardous water pollutant.

### Further information

Do not flush into surface water or sanitary sewer system.  
In aqueous systems, formation of insoluble and chemically inert (inactive) polyureas.

## 13. Disposal considerations

### Waste treatment methods

#### **Disposal recommendations**

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

#### **Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.  
Contaminated packagings are to be treated like the product itself.  
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

## 14. Transport information

### **Canadian TDG**

<b><u>UN number:</u></b>	UN 1993
<b><u>Proper shipping name:</u></b>	Flammable liquid, n.o.s. (Xylene (mixed isomers))
<b><u>Hazard classes:</u></b>	3
<b><u>Packing group:</u></b>	III
Hazard label:	3
Limited quantity:	5 L



### **Marine transport (IMDG)**

<b><u>UN number or ID number:</u></b>	UN 1993
<b><u>United Nations proper shipping name:</u></b>	FLAMMABLE LIQUID, N.O.S. (Xylene, ethyl benzene)
<b><u>Transport hazard class(es):</u></b>	3
<b><u>Packing group:</u></b>	III
Hazard label:	3



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

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

**UN number or ID number:** UN 1993  
**United Nations proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Xylene, ethyl benzene)  
**Transport hazard class(es):** 3  
**Packing group:** III  
Hazard label: 3



Special Provisions: A3  
Limited quantity Passenger: 10 L  
Passenger LQ: Y344  
Excepted quantity: E1  
IATA-packing instructions - Passenger: 355  
IATA-max. quantity - Passenger: 60 L  
IATA-packing instructions - Cargo: 366  
IATA-max. quantity - Cargo: 220 L

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**15. Regulatory information****Canadian regulations****DSL/NDSL inventory status**

All components are listed on the DSL Inventory.

**National Pollutant Release Inventory (NPRI)**

Xylene (mixed isomers) (1330-20-7)

**WHMIS classification**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

**16. Other information****Changes**

This data sheet contains changes from the previous version in section(s): 2,4,9,11,14.

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### 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

### Further Information

Data of sections 4 to 8, as well as 10 to 12, do not necessarily refer to the use and the regular handling of the product (in this sense consult package leaflet and expert information), but to release 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)

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