

# Safety Data Sheet according to Regulation (EU) No. 1907/2006

REMA TIP TOP GmbH

Revision date: 09.03.2010

Revision no.: 1,05

**TIP TOP HEATING SOLUTION T4, free of chlorinated and aromatic hydrocarbons**

00156-0245



## 1. Identification of the substance/preparation and of the company/undertaking

### Identification of the substance or preparation

TIP TOP HEATING SOLUTION T4, free of chlorinated and aromatic hydrocarbons

#### Art.-No.:

538 1377; 538 1676; 538 1683, 538 1360, 538 1361, 538 1690

### Use of the substance/preparation

Adhesive

### Company/undertaking identification

REMA TIP TOP GmbH

Gruber Straße 63

D-85586 Poing

Telephone : ++49 (0) 8121 / 707 - 0

Responsible Department :

Emergency telephone : ++49 (0) 6132 / 84463 (GBK Gefahrgut Buero GmbH, Ingelheim)

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

## 2. Hazards identification

### Classification

Indications of danger : Highly flammable, Irritant, Dangerous for the environment

R-phrases:

Highly flammable.

Irritating to skin.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Vapours may cause drowsiness and dizziness.

## 3. Composition/information on ingredients

### Chemical characterization ( Mixture )

Preparation solved in petroleum spirit

#### Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
265-151-9	64742-49-0	Naphtha (petroleum)	< 85 %	F, N, Xi, Xn R11-38-51-53-65-67
215-222-5	1314-13-2	zinc oxide	< 1 %	N R50-53
215-267-0	1317-36-8	Lead(II)-oxide	< 0,3 %	Repr. Cat. 1, Repr. Cat. 3, Xn, N R61-62-20/22-33-50-53

Full text of each relevant R phrase can be found in heading 16.

### Further Information

According to note P to the regulation (EC) no. 1272/2008, "Naphtha (petroleum)" is not to be classified as "carcinogenic" or "mutagen" ingredient because a benzene content (EINECS No. 200-753-7) is below 0.1 % by weight.

## 4. First aid measures

### General information



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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.  
Seek medical treatment immediately.

**After contact with skin**

Wash off 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, for at least 15 minutes.  
Summon a doctor immediately.

**After ingestion**

Induce vomiting only upon the advice of a physician.  
Attention. Beware, danger of aspiration.  
Do not induce vomiting.  
Summon a doctor immediately.

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**5. Fire-fighting measures**

**Suitable extinguishing media**

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

**Extinguishing media which must not be used for safety reasons**

Full water jet.

**Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases**

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

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.  
Protective suit.

**Additional information**

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

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**6. Accidental release measures**

**Personal precautions**

In case of vapour formation use respirator.  
Ensure adequate ventilation.  
Remove persons to safety.  
Use personal protective clothing.  
Keep away sources of ignition.  
Avoid contact with skin, eyes and clothing.

**Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.



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**Methods for cleaning up/taking up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

**7. Handling and storage**

**Handling**

**Advice on safe handling**

Keep container tightly closed.

Use only in thoroughly ventilated areas.

Vapours are heavier than air and spread along ground.

**Advice on protection against fire and explosion**

Keep away from heat and sources of ignition.

Do not smoke.

Take precautionary measures against static discharges.

Use only explosion-proof equipment.

**Storage**

**Requirements for storage rooms and vessels**

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

Pay attention to anti-explosion protection rules.

**Advice on storage compatibility**

Incompatible with oxidizing agents.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

**8. Exposure controls/personal protection**

**Exposure limit values**

**Exposure limits (EH40)**

CAS-No.	Chemical name	ml/m³	mg/m³	F/ml	Category	Origin
1314-13-2	Zinc oxide, fume (OLD)	-	5		TWA (8 h)	OES
		-	10		STEL (15 min)	OES

**Occupational exposure controls**

Pay attention to anti-explosion protection rules.

Ensure adequate ventilation, especially in confined areas.

**Protective and hygiene measures**

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Treat subsequently with skin cream.

Remove and wash contaminated clothing before re-use.

**Respiratory protection**

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



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**Hand protection**

Protective gloves resistant to chemicals made of nitrile, Minimum coat thickness 0.4 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Camatril Velours 730> 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.

**Eye protection**

Tightly fitting goggles

**Skin protection**

Solvent-resistant apron

**9. Physical and chemical properties**

**General information**

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

**Important health, safety and environmental information**

**Changes in the physical state**

Boiling point : 60 - 95 °C  
Flash point : < -20 °C  
Lower explosion limits : 1,1 vol. %  
Upper explosion limits : approx. 8 vol. %  
Vapour pressure : 180 hPa  
(at 20 °C)  
Density : < 1 g/cm<sup>3</sup>  
Water solubility : Immiscible  
(at 20 °C)  
Viscosity / dynamic : approx. 1300 mPa·s

**Solvent content**

< 85 %

**Other information**

Ignition temperature : 260 °C

**10. Stability and reactivity**

**Conditions to avoid**

To avoid thermal decomposition, do not overheat.  
Heating can release vapours which can be ignited.  
Vapour/air-mixtures are explosive at intense warming.

**Materials to avoid**

Oxidizing agents.

**Hazardous decomposition products**

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>)

**Additional information**

No decomposition if stored and applied as directed.



## **11. Toxicological information**

### **Empirical data on effects on humans**

Irritating to skin.

Vapours may cause drowsiness and dizziness.

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

A longer or repeated contact may lead to irritation of eyes and mucous membranes.

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Lead has cumulative properties, wherefore lead compounds can be health-damaging in the event of long-term or frequent exposure. Following symptoms are resulting from chronic lead uptake: fatigue, headaches, constipation and colic.

Lead compounds are classified in category 1 and 3 as reprotoxic (toxic effects on reproduction).

## **12. Ecological information**

### **Further information**

Do not flush into surface water or sanitary sewer system.

Low hazard to waters.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## **13. Disposal considerations**

### **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 dangerous substances  
Classified as hazardous waste.

### **Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

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.

## **14. Transport information**

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

UN number :	1133
ADR/RID class :	3
Classification code :	F1
Warning plate	
Hazard-no. :	33
Hazard label :	3
ADR/RID packing group :	II
Limited quantity :	LQ 6

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#### Description of the goods

Adhesives

#### Other applicable information (land transport)

LQ 6: combination packaging: 5 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass).

Tunnel restriction code: D/E

Transport category: 2

Additional label with symbol "fish and tree" according to subsection 5.2.1.8.3. ADR for single packagings and inner packagings with > 5 kg or 5 L, transition period ends 31.12.2010.

#### Marine transport

UN number : 1133

IMDG code : 3

Marine pollutant : No

IMDG packing group : II

EmS : F-E; S-D

Limited quantity : 5 L / 30 kg

#### Description of the goods

ADHESIVES

#### Other applicable information (marine transport)

Limited quantities (section 3.4): combination packaging: 5 l / 30 kg (total gross mass); trays: 5 l / 20 kg (total gross mass).

Additional label with symbol "fish and tree" according to subsection 5.2.1. IMDG Code for single packagings and inner packagings with > 5 kg or 5 L.

#### Air transport

UN/ID number : 1133

ICAO/IATA-DGR : 3

Hazard label : 3

ICAO packing group : II

Limited quantity Passenger : Y305 / 1 L

IATA-packing instructions - Passenger : 305

IATA-max. quantity - Passenger : 5 L

IATA-packing instructions - Cargo : 307

IATA-max. quantity - Cargo : 60 L

#### Description of the goods

ADHESIVES

## 15. Regulatory information

### Labelling

#### Additional advice on labelling

According to EEC-regulations the product is to be labelled as follows:

Danger symbols :

F - Highly flammable; Xi - Irritant; N - Dangerous for the environment



F - Highly flammable



Xi - Irritant



N - Dangerous for the environment



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**R phrases**

- 11 Highly flammable.  
38 Irritating to skin.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
67 Vapours may cause drowsiness and dizziness.

**S phrases**

- 16 Keep away from sources of ignition - No smoking.  
33 Take precautionary measures against static discharges.  
35 This material and its container must be disposed of in a safe way.  
61 Avoid release to the environment. Refer to special instructions / Safety data sheets.  
09 Keep container in a well-ventilated place.

**EU regulatory information**

1999/13/EC (VOC) : < 85 %

**National regulatory information**

Employment restrictions : Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing. Observe employment restrictions for women of child-bearing age.

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

**16. Other information**

**Full text of R-phrases referred to under sections 2 and 3**

- 11 Highly flammable.  
20/22 Harmful by inhalation and if swallowed.  
33 Danger of cumulative effects.  
38 Irritating to skin.  
50 Very toxic to aquatic organisms.  
51 Toxic to aquatic organisms.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
53 May cause long-term adverse effects in the aquatic environment.  
61 May cause harm to the unborn child.  
62 Possible risk of impaired fertility.  
65 Harmful: may cause lung damage if swallowed.  
67 Vapours may cause drowsiness and dizziness.

**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.)*