



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

### Identification of the substance or preparation

TIP TOP METAL PRIMER PR 200

#### Art.-No.:

525 2406, 525 2451, 525 2743, 525 2744, 529 8109

### Use of the substance/preparation

Primer Coat

### 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, Harmful

R-phrases:

Highly flammable.

Harmful by inhalation and in contact with skin.

Irritating to eyes, respiratory system and skin.

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

Possible risks of irreversible effects.

## 3. Composition/information on ingredients

### Chemical characterization ( Mixture )

Preparation with polymers in xylene and 4-methylpentan-2-one

#### Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
203-550-1	108-10-1	4-Methylpentan-2-one	> 45 %	F, Xn, Xi R11-20-36/37-66
215-535-7	1330-20-7	Xylene (mixed isomers)	< 10 %	Xn, Xi R10-20/21-38
202-849-4	100-41-4	Ethyl benzene	< 5 %	F, Xn R11-20
215-222-5	1314-13-2	zinc oxide	< 2,5 %	N R50-53
203-632-7	108-95-2	Phenol	< 1,5 %	Xn, T, Xn, C R68-23/24/25-48/20/21/22-34

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

## 4. First aid measures

### General information



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Remove contaminated soaked clothing immediately.

Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours.

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.

Possible risk of resorption through skin.

If a person feels unwell or symptoms of skin irritation appear, consult a physician.

**After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Seek medical treatment by eye specialist.

**After ingestion**

Induce vomiting only upon the advice of a physician.

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 and carbon dioxide.

Hydrogen chloride (HCl)

**Special protective equipment for fire-fighters**

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.

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**6. Accidental release measures**

**Personal precautions**

In case of vapour formation use respirator.

Use only explosion-proof equipment.

Ensure adequate ventilation.

Remove persons to safety.

Use personal protective clothing.



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**Environmental precautions**

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

**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.

**Additional information**

Clean contaminated surface thoroughly.

**7. Handling and storage**

**Handling**

**Advice on safe handling**

Do not wear contact lenses when handling the product.

Keep container tightly closed.

Vapours are heavier than air and spread along ground.

Keep a good ventilation and air-exhaust at the place of work.

Avoid contact with skin, eyes and clothing.

**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 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/m <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
108-10-1	4-Methylpentan-2-one	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		STEL (15 min)	WEL
108-95-2	Phenol	2	7.8		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
1330-20-7	Xylene, o-, m-, p- or mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL
1314-13-2	Zinc oxide, fume (OLD)	-	5		TWA (8 h)	OES
		-	10		STEL (15 min)	OES

**Occupational exposure controls**

Ensure adequate ventilation, especially in confined areas.



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**Protective and hygiene measures**

Do not inhale vapours.

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothes before re-use.

**Respiratory protection**

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

**Hand protection**

Splash protection:

Protective gloves resistant to chemicals made off butyl, Minimum coat thickness 0,7 mm, Permeation resistance (wear duration) > 240 minutes, i.e. protective glove <Butoject 898> 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**

Eye wash bottle with pure water.

Tightly fitting goggles

**Skin protection**

Solvent-resistant apron.

**9. Physical and chemical properties**

**General information**

Physical state : Liquid

Colour : Grey

Odour : Aromatic

**Important health, safety and environmental information**

**Changes in the physical state**

Boiling point : approx. 117 °C

Flash point : 17 °C

Lower explosion limits : 1,7 vol. %

Upper explosion limits :

Vapour pressure : 7 - 9 hPa

(at 20 °C)

Density (at 20 °C) : 0,93 g/cm<sup>3</sup>

Water solubility : Immiscible

(at 20 °C)

Viscosity / dynamic : 500 mPa·s

**Solvent content**

< 70 %

**Other information**

Ignition temperature : n.d.

**10. Stability and reactivity**



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**Conditions to avoid**

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

**Materials to avoid**

Strong oxidizing agents.

**Hazardous decomposition products**

Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).  
Carbon monoxide and carbon dioxide.  
Hydrogen chloride (HCl)

**Additional information**

No decomposition if stored and applied as directed.

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**11. Toxicological information**

**Empirical data on effects on humans**

Irritating to eyes, respiratory system and skin.  
Harmful by inhalation and in contact with skin.  
Possible risk of irreversible effects.  
Inhalation of vapours is irritating to the respiratory system, may cause throat pain and cough.  
Repeated exposure may cause skin dryness or cracking.  
Possible risk of resorption through skin.  
Inhalation of high vapour concentration may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.  
Inhalation of vapours is irritating to the respiratory system, may cause throat pain and cough.  
May cause irritation of the mucous membranes.

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**12. Ecological information**

**Further information**

Do not flush into surface water or sanitary sewer system.  
Hazardous water pollutant.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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**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**

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances  
Classified as 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.

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**14. Transport information**

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

REMA TIP TOP GmbH

Revision date: 09.03.2010

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**Land transport (ADR/RID)**

UN number :	1263
ADR/RID class :	3
Classification code :	F1
Warning plate	
Hazard-no. :	33
Hazard label :	3
ADR/RID packing group :	II
Limited quantity :	LQ 6

**Description of the goods**

Paint

**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

**Marine transport**

UN number :	1263
IMDG code :	3
Marine pollutant :	No
Hazard label :	3
IMDG packing group :	II
EmS :	F-E; S-E
Limited quantity :	5 L / 30 kg

**Description of the goods**

PAINT

**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).

**Air transport**

UN/ID number :	1263
ICAO/IATA-DGR :	3
Hazard label :	3
ICAO packing group :	II
Limited quantity Passenger :	Y305 / 1L
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**

PAINT

**15. Regulatory information****Labelling****Additional advice on labelling**

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

Danger symbols : F - Highly flammable; Xn - Harmful



F - Highly flammable

Xn - Harmful

**Hazardous components which must be listed on the label**

4-Methylpentan-2-one

Phenol

**R phrases**

- 11 Highly flammable.
- 20/21 Harmful by inhalation and in contact with skin.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 68 Possible risks of irreversible effects.

**S phrases**

- 09 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 33 Take precautionary measures against static discharges.
- 35 This material and its container must be disposed of in a safe way.
- 36/37 Wear suitable protective clothing and gloves.
- 61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

**EU regulatory information**

1999/13/EC (VOC) : < 90%

**National regulatory information**

Employment restrictions : Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D) : 2 - water contaminating

**16. Other information**

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

- 10 Flammable.
- 11 Highly flammable.
- 20 Harmful by inhalation.
- 20/21 Harmful by inhalation and in contact with skin.
- 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- 34 Causes burns.
- 36/37 Irritating to eyes and respiratory system.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 38 Irritating to skin.
- 48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
- 50 Very toxic to aquatic organisms.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 53 May cause long-term adverse effects in the aquatic environment.
- 66 Repeated exposure may cause skin dryness or cracking.
- 68 Possible risks of irreversible effects.

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

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**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)

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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.)*