



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

Identification of the substance or preparation

TIP TOP METAL PRIMER PR 500-1

Art.-No.:

525 2303, 525 2327, 525 2334, 525 2470

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 and respiratory system.

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

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	30 - 60 %	F, Xn, Xi R11-20-36/37-66
215-535-7	1330-20-7	Xylene (mixed isomers)	< 20 %	Xn, Xi R10-20/21-38
200-578-6	64-17-5	Ethanol	1 - 5 %	F R11
215-222-5	1314-13-2	Zinc oxide	< 2,5 %	N R50-53
203-632-7	108-95-2	Phenol	< 1 %	Muta. Cat. 3, T, Xn, C R68-23/24/25-48/20/21/22-34
200-659-6	67-56-1	Methanol	< 1 %	F, T R11-23/24/25-39/23/24/25

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.

Take away from danger area and lay down affected person.

After inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

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

Do not induce vomiting.

Rinse mouth.

Never give anything by mouth to an unconscious person.

Summon a doctor immediately.

Induce vomiting only upon the advice of a physician.

5. Fire-fighting measures

Suitable extinguishing media

Foam, carbon dioxide (CO₂), 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.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and 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.

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.

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.

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.

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.

Take precautionary measures against static discharges.

Advice on storage compatibility

Incompatible with:

Strong oxidizing agents., Strong acids and strong bases.

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 ³	mg/m ³	F/ml	Category	Origin
108-10-1	4-Methylpentan-2-one	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
67-56-1	Methanol	200	266		TWA (8 h)	WEL
		250	333		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

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Occupational exposure controls

Ensure adequate ventilation, especially in confined areas.

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

Protective gloves resistant to chemicals made of 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 : Like ketone

Important health, safety and environmental information

Changes in the physical state

Melting point : - 84 °C
Boiling point : 114 - 120 °C
Flash point : 16 °C
Lower explosion limits : 1,2 vol. %
Upper explosion limits : 8 vol. %
Vapour pressure : 10 - 15 hPa
(at 20 °C)
Density (at 20 °C) : 0,94 - 0,98 g/cm³
Water solubility : 19 g/L
Flow time : 25 - 28 s
(at 20 °C)

Solvent content

70 - 74 %

Other information

Ignition temperature : 460 °C

10. Stability and reactivity



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., Strong acids and strong bases.

Hazardous decomposition products

Carbon monoxide and carbon dioxide.

Additional information

No decomposition if stored and applied as directed.

11. Toxicological information

Empirical data on effects on humans

Irritating to eyes and respiratory system.

Harmful by inhalation and in contact with skin.

Inhalation of high vapour concentrations 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.

Components of the product may be absorbed into the body through the skin.

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.

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

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.

14. Transport information

Land transport (ADR/RID)

UN number : 1133

ADR/RID class : 3

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

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

Marine transport

UN number :	1133
IMDG code :	3
Marine pollutant :	No
Hazard label :	3
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).

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 goodsADHESIVES

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

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F - Highly flammable

Xn - Harmful

Hazardous components which must be listed on the label

4-Methylpentan-2-one

Xylene (mixed isomers)

R phrases

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

S phrases

- 09 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe vapour .
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 51 Use only in well-ventilated areas.
- 60 This material and its container must be disposed of as hazardous waste.
- 36/37 Wear suitable protective clothing and gloves.

EU regulatory information

1999/13/EC (VOC) : < 80 %

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.
- 38 Irritating to skin.
- 39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
- 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.

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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)

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