

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP REMA WEAR REPAIR COMPOUND B

Revision date: 25.01.2023

Product code: 00156-0514

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

##### 1.1. Product identifier

TIP TOP REMA WEAR REPAIR COMPOUND B

##### Art.-No.

525 1400

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

##### Use of the substance/mixture

Repair material

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

Company name: REMA TIP TOP AG

Street: Gruber Strasse 65

Place: D-85586 Poing

Telephone: +49 (0) 8121 / 707 - 100

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)  
Public Poisons Information Line: +353 (0) 1 809 2166 (8am-10pm 7 days a week)

#### SECTION 2: Hazards identification

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

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

Met. Corr. 1; H290

Acute Tox. 4; H302

Skin Corr. 1B; H314

Eye Dam. 1; H318

Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

##### 2.2. Label elements

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

##### Hazard components for labelling

3-Aminomethyl-3,5,5-trimethylcyclohexylamine

Xylylenediamine

##### Signal word:

Danger

##### Pictograms:



##### Hazard statements

H290

May be corrosive to metals.

H302

Harmful if swallowed.

H314

Causes severe skin burns and eye damage.

H317

May cause an allergic skin reaction.

##### Precautionary statements

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 or shower.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

#### 2.3. Other hazards

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

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Mixture containing following substances with additives :

##### Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
	Classification (Regulation (EC) No 1272/2008)	REACH No
100-51-6	Benzyl alcohol	7 - 12 %
	202-859-9	603-057-00-5
	01-2119492630-38	
	Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2; H332 H302 H319	
2855-13-2	3-Aminomethyl-3,5,5-trimethylcyclohexylamine	4 - 10 %
	220-666-8	612-067-00-9
	01-2119514687-32	
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A; H302 H314 H318 H317	
1477-55-0	Xylylenediamine	0,25 - 2 %
	216-032-5	01-2119480150-50
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H332 H302 H314 H318 H317 H412 EUH071	

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

##### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
100-51-6	202-859-9	Benzyl alcohol	7 - 12 %
		inhalation: ATE = 11 mg/l (vapours); oral: LD50 = 1570 mg/kg	
2855-13-2	220-666-8	3-Aminomethyl-3,5,5-trimethylcyclohexylamine	4 - 10 %
		inhalation: LC50 = >5,01 mg/l (dusts or mists); dermal: LD50 = ATE 1100 mg/kg; oral: ATE 1030 mg/kg Skin Sens. 1A; H317: >= 0,001 - 100	
1477-55-0	216-032-5	Xylylenediamine	0,25 - 2 %
		inhalation: LC50 = 2,4 mg/l (vapours); dermal: LD50 = ~ 2000 mg/kg; oral: LD50 = 930 mg/kg	

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Remove contaminated soaked clothing immediately.  
In the event of persistent symptoms receive medical treatment.

##### After inhalation

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



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In the event of symptoms refer for medical treatment.

#### **After contact with skin**

Wash off immediately with soap and plenty of water.  
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.  
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.

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

Harmful if swallowed.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.

#### **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**

Alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), 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 nitrogen oxides (NO<sub>x</sub>).

### **5.3. Advice for firefighters**

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.

## SECTION 6: Accidental release measures

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **General advice**

Ensure adequate ventilation.  
Remove persons to safety.  
Keep away sources of ignition.

#### **For non-emergency personnel**

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

#### **For emergency responders**

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



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#### **6.2. Environmental precautions**

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

#### **6.3. 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.  
Clean contaminated surface thoroughly.

#### **6.4. Reference to other sections**

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

### SECTION 7: Handling and storage

#### **7.1. Precautions for safe handling**

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

Keep container tightly closed.  
Use only in thoroughly ventilated areas.  
Avoid contact with skin, eyes and clothing.

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

No special protective measures against fire required.

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

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.

#### **7.2. Conditions for safe storage, including any incompatibilities**

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

Keep container tightly closed in a dry, cool and well-ventilated place.  
Pay attention to anti-explosion rules.  
Protect against direct sun radiation.  
Recommended storage temperature: 10°C - 30°C

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

Incompatible with:  
Oxidizing agents, Acids and bases.

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

Keep away from food, drink and animal feeding stuffs.

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

Repair material

### SECTION 8: Exposure controls/personal protection

#### **8.1. Control parameters**

##### **Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
1477-55-0	m-Xylene alpha,alpha'-diamine (m-phenylenebis(methylamine))	-	0.1		TWA (8 h)	

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**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
2855-13-2	3-Aminomethyl-3,5,5-trimethylcyclohexylamine			
Worker DNEL, long-term		inhalation	local	0,073 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	0,073 mg/m <sup>3</sup>

**PNEC values**

CAS No	Substance	Value
2855-13-2	3-Aminomethyl-3,5,5-trimethylcyclohexylamine	
Freshwater		0,06 mg/l
Marine water		0,006 mg/l
Freshwater sediment		5,784 mg/l
Marine sediment		0,578 mg/l
Soil		1,121 mg/l

**Additional advice on limit values**

No data available

**8.2. 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 (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. 30 minutes, i.e. protective glove &lt;Vitoject 890&gt; made by www.kcl.de.

Splash protection: Protective gloves resistant to chemicals made off nitrile, Minimum coat thickness 0.4 mm, Permeation resistance (wear duration) &gt; 10 minutes.

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 (DIN EN ISO 6530)

**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:	Viscous
Colour:	Black
Odour:	Similar to ammonia

**Changes in the physical state**

Melting point/freezing point: n. d.

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Boiling point or initial boiling point and boiling range: &gt; 200 °C

Sublimation point: n.a.

Softening point: n. d.

Flash point: &gt; 100 °C

**Flammability**

Solid/liquid: n.a.

Gas: n.a.

**Explosive properties**

The product is not explosive.

Lower explosion limits: n. d.

Upper explosion limits: n. d.

Auto-ignition temperature: n. d.

**Self-ignition temperature**

Solid: n.a.

Gas: n.a.

Decomposition temperature: n. d.

pH-Value (at 20 °C): &gt; 8

Viscosity / dynamic:  
(at 25 °C) n. d.Viscosity / kinematic:  
(at 40 °C) > 20,5 mm<sup>2</sup>/sFlow time:  
(at 23 °C) n. d.Water solubility:  
(at 20 °C) Immiscible**Solubility in other solvents**

n. d.

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

Vapour pressure:  
(at 21 °C) n. d.Density (at 21 °C): 1,74 g/cm<sup>3</sup>

Bulk density: n.a.

Relative vapour density: n. d.

**9.2. Other information****Information with regard to physical hazard classes**Oxidizing properties  
Not oxidising.**Other safety characteristics**

Solvent separation test: n. d.

Solvent content: 0 %

Evaporation rate: n. d.

**Further Information**

No data available

**SECTION 10: Stability and reactivity**



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#### **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 acids, alkalies and oxidising agents.

#### **10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

Protect against direct sun radiation.

#### **10.5. Incompatible materials**

Oxidizing agents, Acids and bases.

#### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

Fire may produce:

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

### SECTION 11: Toxicological information

#### **11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

##### **Acute toxicity**

Harmful if swallowed.

No toxic data available.

ATEmix/oral: ~ 1500 mg/kg

##### **ATEmix calculated**

ATE (oral) 5127,5 mg/kg; ATE (inhalation vapour) 78,57 mg/l

##### **Irritation and corrosivity**

Causes severe skin burns and eye damage.

Causes serious eye damage.

##### **Sensitising effects**

May cause an allergic skin reaction. (3-Aminomethyl-3,5,5-trimethylcyclohexylamine; Xylylenediamine)

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

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

##### **STOT-single exposure**

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

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

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

##### **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.

#### **11.2. Information on other hazards**

##### **Endocrine disrupting properties**

No data available

### SECTION 12: Ecological information

#### **12.1. Toxicity**

Ecological data are not available.

#### **12.2. Persistence and degradability**

No data available

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#### 12.3. Bioaccumulative potential

No data available

#### 12.4. Mobility in soil

No data available

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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. 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.

#### 12.7. Other adverse effects

Hazard to waters.

#### **Further information**

Do not flush into surface water or sanitary sewer system.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### **Disposal recommendations**

Can be incinerated, when in compliance with local regulations.

##### **List of Wastes Code - residues/unused products**

080411 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); adhesive and sealant sludges containing organic solvents or other hazardous substances; hazardous waste

##### **Contaminated packaging**

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.

Packaging that cannot be cleaned should be disposed of like the product.

### SECTION 14: Transport information

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

##### 14.1. UN number or ID number:

UN 2735

##### 14.2. UN proper shipping name:

AMINES, LIQUID, CORROSIVE, N.O.S. (Xylylenediamine, 3-Aminomethyl-3,5,5-trimethylcyclohexylamine)

##### 14.3. Transport hazard class(es):

8

##### 14.4. Packing group:

II

Hazard label:

8



Classification code:

C7

Special Provisions:

274

Limited quantity:

1 L / 30 kg

Excepted quantity:

E2

Transport category:

2

Hazard No:

80

Tunnel restriction code:

E

#### **Inland waterways transport (ADN)**



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**14.1. UN number or ID number:** UN 2735  
**14.2. UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (Xylylenediamine, 3-Aminomethyl-3,5,5-trimethylcyclohexylamine)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
 Hazard label: 8



Classification code: C7  
 Special Provisions: 274  
 Limited quantity: 1 L / 30 kg  
 Excepted quantity: E2

#### Marine transport (IMDG)

**14.1. UN number or ID number:** UN 2735  
**14.2. UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (Xylylenediamine, 3-Aminomethyl-3,5,5-trimethylcyclohexylamine)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
 Hazard label: 8



Marine pollutant: Yes  
 Special Provisions: 274  
 Limited quantity: 1 L / 30 kg  
 Excepted quantity: E2  
 EmS: F-A, S-B  
 Segregation group: 18 - alkalis

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

**14.1. UN number or ID number:** UN 2735  
**14.2. UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (Xylylenediamine, 3-Aminomethyl-3,5,5-trimethylcyclohexylamine)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
 Hazard label: 8



Special Provisions: A3 A803  
 Limited quantity Passenger: 0.5 L  
 Passenger LQ: Y840  
 Excepted quantity: E2  
 IATA-packing instructions - Passenger: 851  
 IATA-max. quantity - Passenger: 1 L  
 IATA-packing instructions - Cargo: 855  
 IATA-max. quantity - Cargo: 30 L

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### 14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.



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#### 14.7. Maritime transport in bulk according to IMO instruments

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

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Information according to 2012/18/EU  
(SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

##### National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles 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 hazard class (D):

2 - obviously hazardous to water

#### 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

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**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

Classification	Classification procedure
Met. Corr. 1; H290	Practical experience/human evidence
Acute Tox. 4; H302	Calculation method
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method

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

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

**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.)*