



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

### **Identification of the substance or preparation**

TIP TOP CLEANING AGENT CE

#### **Art.-No.:**

595 9163

### **Use of the substance/preparation**

Cleaning agent

### **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, Dangerous for the environment

R-phrases:

Highly flammable.

Irritating to eyes and skin.

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

Harmful: may cause lung damage if swallowed.

Vapours may cause drowsiness and dizziness.

## **3. Composition/information on ingredients**

### **Chemical characterization ( Mixture )**

Mixture of solvents

#### **Hazardous components**

EC-No.	CAS-No.	Chemical name	Quantity	Classification
205-500-4	141-78-6	Ethyl acetate	< 55 %	F, Xi R11-36-66-67
203-806-2	110-82-7	Cyclohexane	< 55 %	F, Xn, Xi, N R11-65-38-67-50-53

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

## **4. 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.

### **After inhalation**

Move to fresh air in case of accidental inhalation of vapours.

Seek medical treatment immediately.



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**After contact with skin**

Wash off 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**

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 and carbon dioxide.

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.

Protective suit.

**Additional information**

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.

Keep away sources of ignition.

**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.

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**7. Handling and storage**

**Handling**

**Advice on safe handling**



**TIP TOP CLEANING AGENT CE**

00156-0233

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**

Do not smoke - volatile.  
Keep away from heat and sources of ignition.  
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
110-82-7	Cyclohexane	100	350		TWA (8 h)	WEL
		300	1050		STEL (15 min)	WEL
141-78-6	Ethyl acetate	200	-		TWA (8 h)	WEL
		400	-		STEL (15 min)	WEL

**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.  
Treat subsequently with skin cream.  
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) > 30 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.



**TIP TOP CLEANING AGENT CE**

00156-0233

**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 : Colourless  
Odour : Fruity

**Important health, safety and environmental information**

**Changes in the physical state**

Boiling point : approx. 76 °C  
Flash point : - 17 °C  
Lower explosion limits : 1,2 vol. %  
Upper explosion limits :  
Vapour pressure : 104 hPa  
(at 20 °C)  
Density (at 20 °C) : 0,83 g/cm³  
Water solubility : Immiscible  
(at 20 °C)

**Solvent content**

100 %

**Other information**

Ignition temperature : > 260 °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.

**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**

Vapours may cause drowsiness and dizziness.  
Harmful: may cause lung damage if swallowed.  
Irritating to eyes and skin.  
May cause irritation of the mucous membranes.  
Effects of breathing high concentrations of vapour may include.  
Headache, dizziness, weakness, unconsciousness.



## **12. Ecological information**

### **Further information**

Do not flush into surface water or sanitary sewer system.

Hazardous water pollutant.

Very 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 : 1993

ADR/RID class : 3

Classification code : F1

Warning plate

Hazard-no. : 33

Hazard label : 3

ADR/RID packing group : II

Limited quantity : LQ 4

### **Description of the goods**

FLAMMABLE LIQUID, N.O.S. (Cyclohexane, Ethyl acetate)

### **Other applicable information (land transport)**

LQ 4: combination packaging: 3 I / 30 kg (total gross mass); trays: 1 I / 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 : 1993

IMDG code : 3

Marine pollutant : No

Hazard label : 3

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

REMA TIP TOP GmbH

Revision date: 05.10.2010

Revision no.: 1,04



### TIP TOP CLEANING AGENT CE

00156-0233

IMDG packing group :	II
EmS :	F-E; S-E
Limited quantity :	1 L / 30 kg

#### Description of the goods

FLAMMABLE LIQUID, N.O.S. (cyclohexane and ethyl acetate)

#### Other applicable information (marine transport)

Limited quantities (chapter 3.4): combination packaging: 1 l / 30 kg (total gross mass); trays: 1 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.

Segregation group: -

#### Air transport

UN/ID number :	1993
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

FLAMMABLE LIQUID, N.O.S. (cyclohexane and ethyl acetate, solution)

## 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; N - Dangerous for the environment



F - Highly flammable

Xn - Harmful

N - Dangerous for the environment

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

Cyclohexane

#### R phrases

11	Highly flammable.
36/38	Irritating to eyes and skin.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
67	Vapours may cause drowsiness and dizziness.

#### S phrases

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.

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

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### TIP TOP CLEANING AGENT CE

00156-0233

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- |    |   |
|----|---|
| 33 | Take precautionary measures against static discharges.  |
| 60 | This material and its container must be disposed of as hazardous waste.                                 |
| 61 | Avoid release to the environment. Refer to special instructions / Safety data sheets.                   |
| 62 | If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. |
| 09 | Keep container in a well-ventilated place.  |

#### EU regulatory information

1999/13/EC (VOC) : 100 %

#### 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

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#### 16. Other information

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

- |       |  |
|-------|--|
| 11    | Highly flammable.  |
| 36    | Irritating to eyes.  |
| 36/38 | Irritating to eyes and skin.   |
| 38    | Irritating to skin.  |
| 50    | Very toxic to aquatic organisms.   |
| 50/53 | Very 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.                                  |
| 65    | Harmful: may cause lung damage if swallowed.   |
| 66    | Repeated exposure may cause skin dryness or cracking.  |
| 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)

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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.)*