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**TIP TOP SOLVENT CF-R4** 

Revision No: 2,01



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

# 1.1. Product identifier

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Art.-No.

595 9118, 595 9125, 595 9132, 595 9156

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

### Use of the substance/mixture

Cleaning agent

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

Company name: REMA TIP TOP AG
Street: Gruber Strasse 63
Place: D-85586 Poing
Telephone +49 (0) 8121 / 707 - 0
Verantwortlich für das Sicherheitsdatenblatt: sds@gbk-ingelheim.de

**1.4. Emergency telephone** INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)

number: England and Wales: NHS Direct - 0845 4647; Scotland: NHS 24 - 08454 24 24

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#### **SECTION 2: Hazards identification**

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

Indications of danger: F - Highly flammable, Xn - Harmful, N - Dangerous for the environment

R phrases:

Highly flammable.

Irritating to eyes and skin.

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.

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Flammable liquid: Flam. Liq. 2 Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Aspiration hazard: Asp. Tox. 1

Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:

Highly flammable liquid and vapour.

May be fatal if swallowed and enters airways.

Causes serious eye irritation.

Causes skin irritation.

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

# 2.2. Label elements

# Hazardous components which must be listed on the label

Cyclohexane Ethyl acetate

Signal word:

Danger

Pictograms: GHS02-GHS07-GHS08-GHS09









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# **Hazard statements**

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eve irritation.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing vapour.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P273 Avoid release to the environment.

## 2.3. Other hazards

Vapours may form explosive mixture with air.

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **Chemical characterization**

Preparation solved in petroleum spirit

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**Hazardous components** 

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
205-500-4	Ethyl acetate	50 - 100 %
141-78-6	F - Highly flammable, Xi - Irritant R11-36-66-67	
607-022-00-5	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066	
01-2119475103-46		
203-806-2	Cyclohexane	10 - 25 %
110-82-7	F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-65-38-67-50-53	
601-017-00-1	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1 (M-Factor = 1); H225 H315 H336 H304 H400 H410	
01-2119463273-41		
203-523-4	Isohexane	2,5 - 10 %
107-83-5	F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-38-51-53-65-67	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411	
205-563-8	n-Heptane	2,5 - 10 %
142-82-5	F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-65-38-67-50-53	
601-008-00-2	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1 (M-Factor = 1); H225 H315 H336 H304 H400 H410	
01-2119457603-38		
203-777-6	n-Hexane	< 2,5 %
110-54-3	Repr. Cat. 3, F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-62-48/20-65-38-67-51-53	
601-037-00-0	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 2; H225 H361f H315 H336 H373 H304 H411	
01-2119480412-44		

Full text of R-, H- and EUH-phrases: see section 16.

### **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.

Take away from danger area and lay down affected person.

# After inhalation

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

If you feel unwell, seek medical advice.

# 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.

Consult a physician.

# After ingestion

Do not induce vomiting.

Never give anything by mouth to an unconscious person.

Summon a doctor immediately.

Induce vomiting only upon the advice of a physician.

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

Causes skin irritation.

Causes serious eye irritation.

May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness.

Attention. Beware, danger of aspiration.

# 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 (CO2), water-spray.

#### Unsuitable extinguishing media

Full water jet.

#### 5.2. Special hazards arising from the substance or mixture

Fire may produce:

Carbon monoxide and carbon dioxide

#### 5.3. Advice for firefighters

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.

# **SECTION 6: Accidental release measures**

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

In case of vapour formation use respirator.

Use only explosion-proof equipment.

Avoid contact with skin, eyes and clothing.

Ensure adequate ventilation.

Remove persons to safety.

Keep away sources of ignition.

#### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.

#### 6.3. Methods and material for containment and cleaning up

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

Shovel into suitable container for disposal.

### 6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Information for disposal see section 13.

#### **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

# Advice on safe handling

Keep container tightly closed.

Vapours are heavier than air and spread along ground.

Use only in thoroughly ventilated areas.

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.

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Use only explosion-proof equipment.

### 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.

#### Advice on storage compatibility

Incompatible with oxidizing agents.

## Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

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

Cleaning agent

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/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
142-82-5	n-Heptane	500	2085		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
110-54-3	n-Hexane	20	72		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

## 8.2. Exposure controls

#### Appropriate engineering 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.

Remove and wash contaminated clothes before re-use.

#### Eye/face protection

Tightly fitting goggles (EN 166).

Eye wash bottle with pure water (EN 15154).

# Hand protection

Splash protection:

Protective gloves resistant to chemicals made off butyl, minimum coat thickness 0,7 mm, permeation resistance (wear duration) approx. 120 minutes, i.e. protective glove <Butoject 898> made by www.kcl.de.

Protective gloves resistant to chemicals made off nitrile, minimum coat thickness 0.4 mm, permeation resistance (wear duration) approx. 30 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.

# Skin protection

Solvent-resistant apron (EN 467).

#### Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

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# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour: Colourless
Odour: characteristic

Melting point: < - 20 °C

Initial boiling point and boiling range:  $> 76 \, ^{\circ}\text{C}$ 

Flash point: - 8 °C

Lower explosion limits: 1,2 vol. %

Upper explosion limits: 11,5 vol. %

Vapour pressure:

100 hPa

(at 20 °C)

Density (at 20 °C): 0,85 g/cm³
Water solubility: Immiscible

(at 20 °C)

Ignition temperature: 460 °C

Viscosity / kinematic: < 20,5 mm²/s

(at 40 °C)

Flow time: < 30 s 3 DIN/ISO 2431

Solvent content: 100 %

### 9.2. Other information

No data available.

# **SECTION 10: Stability and reactivity**

#### 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 oxidizing agents.

## 10.4. 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.

#### 10.5. Incompatible materials

oxidizing agents

# 10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

# **Acute toxicity**

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

No toxicological data available.

Ethyl acetate

LD50/oral/rat: 4935 mg/kg LC50/inhalation/rat: 1600 mg/l

Cyclohexane

LD50/oral/rat: 12705 mg/kg

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### Irritation and corrosivity

Causes serious eye irritation.

Causes skin irritation.

#### Sensitising effects

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

### STOT-single exposure

May cause drowsiness or dizziness. (Ethyl acetate), (Cyclohexane), (Isohexane), (n-Heptane), (n-Hexane)

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#### Severe effects after repeated or prolonged exposure

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

### Carcinogenic/mutagenic/toxic effects for reproduction

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

#### Aspiration hazard

May be fatal if swallowed and enters airways.

#### Additional information on tests

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

#### **Practical experience**

#### Other observations

Inhalation of high vapour concentration may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecological data are not available.

Cyclohexane

EC50/Daphnia magna/48 h = 0,9 mg/l

IC50 Selenastrum capricornutum/72 h > 4 mg/l

Toxic to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

No data available.

# 12.3. Bioaccumulative potential

No data available.

#### 12.4. Mobility in soil

No data available.

# 12.5. Results of PBT and vPvB assessment

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

#### 12.6. Other adverse effects

I ow hazard to waters.

#### **Further information**

Do not flush into surface water or sanitary sewer system.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

# 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

080117

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; wastes from paint or varnish removal containing organic solvents or other dangerous substances

Classified as hazardous waste.

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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.

**SECTION 14: Transport information** 

Land transport (ADR/RID)

**14.1. UN number:** UN1263

14.2. UN proper shipping name: Paint related material

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1

Limited quantity: 5 L / 30 kg

Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

Inland waterways transport (ADN)

**14.1. UN number**: UN1263

14.2. UN proper shipping name: Paint related material

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1
Limited quantity: 5 L / 30 kg

Marine transport (IMDG)

**14.1. UN number:** UN 1263

14.2. UN proper shipping name: PAINT RELATED MATERIAL (Cyclohexane)

 14.3. Transport hazard class(es):
 3

 14.4. Packing group:
 II

 Hazard label:
 3



Marine pollutant: Yes
Limited quantity: 5 L / 30 kg
EmS: F-E; S-E

Air transport (ICAO)

**14.1. UN number:** UN1263

14.2. UN proper shipping name: PAINT RELATED MATERIAL

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



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Limited quantity Passenger: Y341 / 1 L

IATA-packing instructions - Passenger:353IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:364IATA-max. quantity - Cargo:60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



#### 14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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

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.

# 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

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

#### Relevant R-phrases (Number and full text)

Highly flammable.Irritating to eyes.Irritating to skin.

48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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50	Very toxic to aquatic organisms.
51	Toxic to aquatic organisms.
53	May cause long-term adverse effects in the aquatic environment.
62	Possible risk of impaired fertility.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

#### Relevant H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

#### **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.)