



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

Identification of the substance or preparation

TIP TOP CLEANING AGENT T-100

Art.-No.:

590 0600, 590 0617, 590 0930

Use of the substance/preparation

Cleaning agent

Company/undertaking identification

TIP TOP Oberflächenschutz Elbe GmbH

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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.

Irritating to eyes, respiratory system and skin.

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

Possible risk of harm to the unborn child.

Harmful: may cause lung damage if swallowed.

3. Composition/information on ingredients

Chemical characterization (Mixture)

Mixture of organic solvents

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
203-550-1	108-10-1	4-Methylpentan-2-one	< 60 %	F, Xn, Xi R11-20-36/37-66
203-625-9	108-88-3	Toluene	< 60 %	F, Repr. Cat. 3, Xn, Xi R11-63-48/20-65-38-67

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

4. First aid measures

General information

Remove contaminated soaked clothing immediately.

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.

In the event of symptoms refer for medical treatment.



After contact with skin

Wash off immediately with soap and plenty of water.

Treat subsequently with skin cream.

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.

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

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.

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.

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.

Advice on storage compatibility

Incompatible with oxidizing agents.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

Storageclass (VCI) 3 A

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
	4-Methylpentan-2-one	100	416		STEL (15 min)	WEL
108-88-3	Toluene	50	191		TWA (8 h)	WEL
	Toluene	100	384		STEL (15 min)	WEL

Exposure controls

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.
Remove and wash contaminated clothes before re-use.
Avoid contact with eyes, skin or mucous membrane.

Respiratory protection

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

Hand protection

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Chemical protective glove made of nitrile, nitrile/cotton, butyl or neoprene, with a minimum thickness of 0.7 mm, permeation time of approx. 480 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.

Pls. find examples in the protective gloves database under: <http://bestglove.com/site/chemrest/>

Eye protection

Eye wash bottle with pure water.

Tightly fitting goggles

Skin protection

Long sleeved clothing.

9. Physical and chemical properties**General information**

Physical state	Liquid
Colour	Colourless
Odour	Like ketone

Important health, safety and environmental information

	Test method
Changes in the physical state	
Flash point	6 °C approx.
Flammability	
Lower explosion limits	1,2 vol. %
Upper explosion limits	
Ignition temperature	460 °C
Vapour pressure :	29 hPa
Density (at 20 °C) :	0,84 g/cm ³
Water solubility : at (20 °C)	Immiscible
Solvent content	
100 %	

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

Harmful by inhalation.

Irritating to eyes, respiratory system and skin.

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

May cause harm to the unborn child.

Harmful: may cause lung damage if swallowed.

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.

12. Ecological information

Further information

Do not flush into surface water or sanitary sewer system.

Hazard to waters

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 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.

Empty containers should be taken for local recycling, recovery or waste disposal.

14. Transport information

Land transport (ADR/RID)

ADR/RID class	3
Classification code :	F1
Hazard-no.	33
UN number	1993
Hazard label	3
ADR/RID packing group	II
Limited quantity	LQ 4

Description of the goods

FLAMMABLE LIQUID, N.O.S. (4-Methylpentan-2-one, Toluene)

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**Other applicable information (land transport)**

LQ 4: combination packaging: 3 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass).

Tunnel restriction code: D/E

Transport category: 2

Inland waterways transport**Marine transport**

IMDG code	3
UN number	1993
Marine pollutant	No
EmS	F-E; S-E
IMDG packing group	II
Limited quantity :	1 L / 30 kg
Hazard label	3

Description of the goods

FLAMMABLE LIQUID, N.O.S. (toluene and methylisobutyl ketone)

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)

Air transport

ICAO/IATA-DGR	3
UN/ID number	1993
Hazard label	3
IATA-packing instructions - Passenger	305
IATA-max. quantity - Passenger	5 L
IATA-packing instructions - Cargo	307
IATA-max. quantity - Cargo	60 L
ICAO packing group	II
Limited quantity Passenger	Y305 / 1 L

Description of the goods

FLAMMABLE LIQUID, N.O.S. (toluene and methylisobutyl ketone, solution)

15. Regulatory information**Labelling**

Additional advice on labelling According to EC-regulations the product is to be labelled as follows:

Indication of danger F - Highly flammable; Xn - Harmful

Hazardous component(s) to be indicated on label

4-Methylpentan-2-one

Toluene

R phrases

- 11 Highly flammable.
- 20 Harmful by inhalation.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- 63 Possible risk of harm to the unborn child.
- 65 Harmful: may cause lung damage if swallowed.

S phrases

- 09 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.

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- | | |
|-------|---|
| 29 | Do not empty into drains. |
| 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. |
| 62 | If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. |

National regulatory information

Employment restrictions	Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.
Water contaminating class (D) 1999/13/EC (VOC)	2 - water contaminating 100 %; 834 g/l

16. Other information

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

- | | |
|----------|---|
| 11 | Highly flammable. |
| 20 | Harmful by inhalation. |
| 36/37 | Irritating to eyes and respiratory system. |
| 36/37/38 | Irritating to eyes, respiratory system and skin. |
| 38 | Irritating to skin. |
| 48/20 | Harmful: danger of serious damage to health by prolonged exposure through inhalation. |
| 63 | Possible risk of harm to the unborn child. |
| 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)"

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