



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

Identification of the substance or preparation

TIP TOP CLEANING SOLVENT R4-SPRAY, free of chlorinated and aromatic hydrocarbons

Art.-No.:

595 9149

Use of the substance/preparation

Cleaning agent

Company/undertaking identification

REMA TIP TOP GmbH

a company of the group

Gruber Straße 63

D-85586 Poing

Telephone

++49 (0) 8121 / 707 - 0

Inquiry office

Emergency telephone : ++49 (0) 6132 / 84463 (GBK Gefahrgut Buero GmbH, Ingelheim)

Responsible for the safety data sheet: sds@gbk-ingelheim.de

Stahlgruber Otto Gruber GmbH & Co KG

Gruber Straße 65

D-85586 Poing

2. Hazards identification

Classification

Indications of danger : Extremely flammable, Irritant, Dangerous for the environment

R-phrases :

Extremely flammable.

Irritating to skin.

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

Vapours may cause drowsiness and dizziness.

Explication of special hazards for human health and environment

In use, may form flammable/explosive vapour-air mixture.

Heating will cause pressure rise with risk of bursting.

3. Composition/information on ingredients

Chemical characterization

(preparation)

Preparation with aliphatic hydrocarbons (free of aromatic hydrocarbons)

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
265-151-9	64742-49-0	Naphtha (petroleum)	70 - 90 %	F, N, Xi, Xn R11-38-51-53-65-67
205-500-4	141-78-6	Ethyl acetate	1 - 10 %	F, Xi R11-36-66-67
200-827-9	74-98-6	Propane	1 - 10 %	F+ R12
203-448-7	106-97-8	Butane	1 - 10 %	F+ R12
200-857-2	75-28-5	isobutane	1 - 10 %	F+ R12

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

Further Information

According to note P to the directive 67/548/EEC, "Naphta (petroleum)" is not to be classified as

"carcinogenic" ingredient because a benzene content (EINECS No. 200-753-7) is below 0.1 % by weight.

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.

In the event of symptoms refer for medical treatment.

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.

If eye irritation persists, consult a specialist.

After ingestion

Do not induce vomiting.

Attention. Beware, danger of aspiration.

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 arriving 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

Heating will cause pressure rise with risk of bursting.

Cool containers at risk with water spray jet.

Vapours can form an explosive mixture with air.

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.

Use personal protective clothing.

Keep away sources of ignition.

Environmental precautions

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

Do not discharge into the subsoil/soil.



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.

7. Handling and storage

Handling

Advice on safe handling

Avoid contact with the skin and the eyes.
Use only in thoroughly ventilated areas.

Advice on protection against fire and explosion

Do not smoke - volatile.
Keep away from open flames, hot surfaces and sources of ignition.
Pay attention to anti-explosion rules.
Do not spray on a naked flame or any other incandescent material.

Storage

Requirements for storage rooms and vessels

Protect against direct sun radiation.
Keep container tightly closed.
Use only in well-ventilated areas.

Advice on storage compatibility

Incompatible with oxidizing agents.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

Storageclass (VCI)

2 B

8. Exposure controls/personal protection

Exposure limit values

Exposure limits (EH40)

CAS No.	Substance	ml/m ³	mg/m ³	F/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
	Butane	750	1810		STEL (15 min)	WEL
141-78-6	Ethyl acetate	200	-		TWA (8 h)	WEL
	Ethyl acetate	400	-		STEL (15 min)	WEL

Exposure controls

Protective and hygiene measures

Avoid contact with eyes and skin.
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.
Do not breath vapours or spray mist.

Respiratory protection

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

Hand protection



Protective gloves resistant to chemicals made off nitrile, Minimum coat thickness 0.4 mm, Permeation resistance (wear duration) approx. 480 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.

Eye protection

Safety goggles with side protection

Skin protection

Long sleeved clothing.

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

Physical state	Aerosol
Colour	Colourless
Odour	Hydrocarbon-like

Important health, safety and environmental information

Test method

Changes in the physical state

Flash point	- 60 °C
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Flammability

Lower explosion limits	1,4 vol. %
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Upper explosion limits	32 vol. %
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Ignition temperature	510 °C
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Vapour pressure :	2100 hPa
at (20 °C)	

Density (at 20 °C) :	0,66 g/cm ³
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Water solubility :	Immiscible
at (20 °C)	

Solvent content

> 70 %

10. Stability and reactivity**Conditions to avoid**

Vapours may form explosive mixture with air.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Heating will cause pressure rise with risk of bursting.

Materials to avoid

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

Irritating to skin.

Vapours may cause drowsiness and dizziness.

High concentration of vapours may cause irritation to eyes and respiratory system and produce narcotic effects.

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

Attention. Beware, danger of aspiration!

12. Ecological information

Further information

Do not flush into surface water or sanitary sewer system.

Slightly water hazardous.

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

13. Disposal considerations

Advice on disposal

Can be incinerated, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

Waste disposal number of waste from residues/unused products

150111 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers
Classified as hazardous waste.

Contaminated packaging

Offer empty spray cans to an established disposal company.

14. Transport information

Land transport (ADR/RID)

ADR/RID class	2
Classification code :	5F
Hazard-no.	
UN number	1950
Hazard label	2.1
ADR/RID packing group	-
Limited quantity	LQ 2

Description of the goods

AEROSOLS

Remarks (land transport)

LQ 2: combination packaging: 1 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass).

Inland waterways transport

Marine transport



IMDG code	2.1
UN number	1950
Marine pollutant	No
EmS	F-D; S-U
IMDG packing group	-
Limited quantity :	1 L / 30 kg
Hazard label	2.1

Description of the goods

AEROSOLS

Remarks (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	2.1
UN/ID number	1950
Hazard label	2.1
IATA-packing instructions - Passenger	203
IATA-max. quantity - Passenger	75 kg
IATA-packing instructions - Cargo	203
IATA-max. quantity - Cargo	150 kg
ICAO packing group	-
Limited quantity Passenger	Y203 / 30 kg

Description of the goods

AEROSOLS FLAMMABLE

15. Regulatory information**Labelling**

Indication of danger	F+ - Extremely flammable; Xi - Irritant; N - Dangerous for the environment
Additional advice on labelling	According to EC-regulations the product is to be labelled as follows:

R phrases

12	Extremely flammable.
38	Irritating to skin.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
67	Vapours may cause drowsiness and dizziness.

S phrases

23	Do not breathe spray .
51	Use only in well-ventilated areas.
61	Avoid release to the environment. Refer to special instructions / Safety data sheets.

Special labelling for certain preparations

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

Additional information

Without adequate ventilation formation of explosive mixtures may be possible

National regulatory information

Employment restrictions	Observe employment restrictions for young people.; Observe employment restrictions for child bearing mothers and nursing.
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Water contaminating class	1 - slightly water contaminating
1999/13/EC (VOC)	100 %

16. Other information

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

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|-------|---|
| 11 | Highly flammable. |
| 12 | Extremely flammable. |
| 36 | Irritating to eyes. |
| 38 | Irritating to skin. |
| 51 | Toxic to aquatic organisms. |
| 51/53 | 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. |

Other data

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.)