

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### TIP TOP SOLVENT LIQUID BUFFER SPRAY

Revision date: 03/03/2026

Product code: 00156-0090

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#### 1. Identification

##### Product identifier

TIP TOP SOLVENT LIQUID BUFFER SPRAY

##### Art.-No.

505 9692, 505 9693, 559 9050

##### Recommended use of the chemical and restrictions on use

##### Use of the substance/mixture

Cleaning agent

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

Company name: REMA TIP TOP / North America Inc.  
Street: 1500 Industrial Blvd  
Place: Madison, GA 30650, USA  
Telephone: +1 800 225 7362,  
Internet: www.rematiptop.com  
Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de

Emergency phone number: (USA domestic) 1 800 535 5053 or international (001) 352 323 3500  
Infotrac/GBK GmbH-ID: 93591

#### 2. Hazard(s) identification

##### Classification of the chemical

##### 29 CFR Part 1910.1200

Flammable aerosols: Flam. Aerosol 1  
Flammable aerosols: Aerosol 3  
Skin corrosion/irritation: Skin Irrit. 2  
Serious eye damage/eye irritation: Eye Irrit. 2A  
Specific target organ toxicity single exposure: STOT SE 3 (narcotic effects)  
Hazardous to the aquatic environment: Aquatic Chronic 2

##### Label elements

##### 29 CFR Part 1910.1200

Signal word: Danger

Pictograms:



##### Hazard statements

Extremely flammable aerosol  
Pressurized container: may burst if heated  
Causes skin irritation and serious eye irritation  
May cause drowsiness or dizziness  
Toxic to aquatic life with long lasting effects

##### Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Do not spray on an open flame or other ignition source.  
Pressurized container: Do not pierce or burn, even after use.  
Avoid breathing spray.  
Store in a well-ventilated place.  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.



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#### **Hazards not otherwise classified**

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

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

Heating will cause pressure rise with risk of bursting.

### 3. Composition/information on ingredients

#### **Mixtures**

##### **Chemical characterization**

Preparation with aliphatic hydrocarbons (free of aromatic hydrocarbons)

##### **Hazardous components**

CAS No	Components	Quantity
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes	25 - 50 %
141-78-6	Ethyl acetate	25 - 50 %
106-97-8	Butane	10 - 25 %
74-98-6	Propane	10 - 25 %
75-28-5	Isobutane	2,5 - 10 %
110-82-7	Cyclohexane	< 1 %

##### **Further Information**

According to note P to the regulation (EC) no. 1272/2008, "Naphta (petroleum)" is not to be classified as "carcinogenic" or "mutagen" ingredient because a benzene content (EINECS No. 200-753-7) is below 0.1 % by weight.

### 4. First-aid measures

#### **Description of 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.

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.

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

Causes serious eye irritation.

Causes skin irritation.

May cause drowsiness or dizziness.

Repeated exposure may cause skin dryness or cracking.



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Attention. Beware of aspiration danger.

#### **Indication of any immediate medical attention and special treatment needed**

Treat symptoms.

### 5. Fire-fighting measures

#### **Extinguishing media**

##### **Suitable extinguishing media**

Alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water-spray.

##### **Unsuitable extinguishing media**

Full water jet.

#### **Specific hazards arising from the chemical**

Fire may produce:  
carbon monoxide and carbon dioxide

#### **Special protective equipment and precautions 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, protective equipment and emergency procedures**

##### **General advice**

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

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

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

##### **For emergency responders**

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

#### **Environmental precautions**

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

#### **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.

#### **Reference to other sections**

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

### 7. Handling and storage

#### **Precautions for safe handling**

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**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.

**Advice on general occupational hygiene**

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.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Protect against direct sun radiation.  
Keep container tightly closed.  
Use only in well-ventilated areas.  
Avoid temperatures above 50°C (122°F).

**Hints on joint storage**

Incompatible with oxidizing agents.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

**8. Exposure controls/personal protection****Control parameters****Exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
75-28-5	Butane: isobutane	1000	2370		STEL (15 min)	ACGIH-2025
106-97-8	Butane: n-butane	1000	2370		STEL (15 min)	ACGIH-2025
110-82-7	Cyclohexane	300	1050		TWA (8 h)	REL
		300	1050		TWA (8 h)	REL
		100			TWA (8 h)	ACGIH-2025
141-78-6	Ethyl acetate	400	1400		TWA (8 h)	REL
		400	1400		TWA (8 h)	REL
		400	1440		TWA (8 h)	ACGIH-2025
75-28-5	Isobutane	800	1900		TWA (8 h)	REL
106-97-8	n-Butane	800	1900		TWA (8 h)	REL
74-98-6	Propane	1000	1800		TWA (8 h)	REL
		1000	1800		TWA (8 h)	REL
		-	-		Asphyxiant	ACGIH-2025

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**Biological Exposure Indices (BEI-ACGIH)**

CAS No	Substance	Determinant	Value	Test material	Sampling time
110-82-7	CYCLOHEXANE	1,2-Cyclohexanediol (with hydrolysis, creatinine)	50 mg/g	urine	End of shift, end of workweek

**Exposure controls****Individual protection measures, such as personal protective equipment****Eye/face protection**

Safety goggles with side protection.  
Eye wash bottle with pure water.

**Hand protection**

Protective gloves resistant to chemicals made of 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.

**Skin protection**

Long sleeved clothing.

**Respiratory protection**

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

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state: Aerosol  
Color: Colourless  
Odor: Fruity

**Changes in the physical state**

Melting point/freezing point: n.d.  
Boiling point or initial boiling point and boiling range: n.d.  
Sublimation point: n.d.  
Softening point: n.d.  
Pour point: n.d.  
Flash point: < 0 °C

**Flammability**

Solid/liquid: n.a.

**Explosive properties**

The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated.

Lower explosion limits: n.d.  
Upper explosion limits: n.d.  
Auto-ignition temperature: n.d.

**Self-ignition temperature**

Solid: n.a.  
Gas: n.d.

Decomposition temperature: n.d.

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pH-Value:	n.d.
Viscosity / dynamic:	n.d.
Viscosity / kinematic:	n.d.
Flow time:	n.d.
Water solubility: (at 20 °C)	Immiscible
<b>Solubility in other solvents</b> n.d.	
Partition coefficient n-octanol/water:	n.d.
Vapor pressure: (at 20 °C)	3000 hPa
Vapor pressure: (at 50 °C)	< 10000 hPa
Density (at 20 °C):	0,665 g/cm <sup>3</sup>
Bulk density:	n.a.
Relative vapour density:	n.d.

**Other information****Information with regard to physical hazard classes**

Sustained combustibility: Sustained combustibility

Oxidizing properties

Not oxidising.

**Other safety characteristics**

Solvent separation test: n.d.

Solvent content: n.d.

Evaporation rate: n.d.

**Further Information**

No data available

**10. Stability and reactivity****Reactivity**

No decomposition if stored and applied as directed.

**Chemical stability**

Stability: Stable

Stable under normal conditions.

**Possibility of hazardous reactions**

Hazardous reactions: May occur

Reactions with oxidizing agents.

**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.

**Incompatible materials**

Oxidizing agents

**Hazardous decomposition products**

No hazardous decomposition products known.

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Fire may produce:  
Carbon monoxide and carbon dioxide

**11. Toxicological information****Information on toxicological effects****Acute toxicity**

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

No toxicological data available.

Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes

LD50/oral/rat: > 5840 mg/kg (OECD 401)

LD50/dermal/rat: > 2920 mg/kg (OECD 402)

LC50/inhalativ/rat: > 23,3 mg/l/4 h

Hydrocarbons, C6, isoalkanes, < 3% n-hexane

LD50/oral/rat: 16570 mg/kg (OECD 401)

LD50/dermal/rat: 3350 mg/kg (OECD 402)

LC50/inhalativ/rat: 259354 mg/m<sup>3</sup>/4 h

Ethyl acetate

LD50/oral/rat: 4935 mg/kg

LD50/dermal/rat: > 5000 mg/kg

LC50/inhalativ/rat: 30 mg/l/4 h

**ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l; ATE (inhalation gas) > 20000 ppm

**Irritation and corrosivity**

Skin corrosion/irritation: Causes skin irritation

Serious eye damage/eye irritation: Causes serious eye irritation

**Sensitizing effects**

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

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

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

**Specific target organ toxicity (STOT) - single exposure**

May cause drowsiness or dizziness (Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes; Ethyl acetate)

**Specific target organ toxicity (STOT) - repeated exposure**

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

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Aspiration hazard**

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

**Additional information on tests**

This product is classified in accordance with the GHS regulations.

**Information on other hazards****Endocrine disrupting properties**

No data available

**Other information**

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

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

**12. Ecological information****Ecotoxicity**

Ecological data are not available.

Toxic to aquatic life with long lasting effects.

Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes

LC50/Oncorhynchus mykiss/96 h = 13,4 mg/kg

NOEC/Oncorhynchus mykiss/28 d = 1,534 mg/l

EC50/Daphnia magna/48 h = 3,0 mg/l

NOEC/Daphnia magna/21 h = 0,17 mg/l

ErC50/Pseudokirchneriella subcapitata/48 h = 20 mg/l

Hydrocarbons, C6, isoalkanes, < 3% n-hexane

LC50/Oncorhynchus mykiss/96 h = 18,27 mg/l

NOEC/Oncorhynchus mykiss/28 d = 4,089 mg/l

EC50/Daphnia magna/48 h = 31,9 mg/l

NOEC/Daphnia magna/21 h = 7,138 mg/l

ErC50/Pseudokirchneriella subcapitata/48 h = 3,034 mg/l

Ethyl acetate

LC50/EC50/EC50 : > 100 mg/l

Cyclohexane

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

IC50/Selenastrum capricornutum/72 h > 4 mg/l

n-Hexane

LC50/Fish/96 h = 1 - 10 mg/kg

EC50/Daphnia magna/48 h = 1 - 10 mg/kg

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**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.

**Other adverse effects**

Hazardous water pollutant.

**Further information**

Do not flush into surface water or sanitary sewer system.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Can be incinerated, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

**Contaminated packaging**

Offer empty spray cans to an established disposal company.

**14. Transport information**

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#### U.S. DOT 49 CFR 172.101

**UN number or ID number:** UN 1950  
**Proper shipping name:** AEROSOLS  
**Transport hazard class(es):** 2.1  
Hazard label: 2.1



#### Marine transport (IMDG)

**UN number or ID number:** UN 1950  
**UN proper shipping name:** AEROSOLS (Hydrocarbons)  
**Transport hazard class(es):** 2.1  
**Packing group:** -  
Hazard label: 2.1



Marine pollutant: Yes  
Special Provisions: 63 190 277 327 344 381 959  
Limited quantity: 1000 mL / 30 kg  
Excepted quantity: E0  
EmS: F-D, S-U

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

**UN number or ID number:** UN 1950  
**UN proper shipping name:** AEROSOLS, FLAMMABLE  
**Transport hazard class(es):** 2.1  
**Packing group:** -  
Hazard label: 2.1



Special Provisions: A145 A167 A802  
Limited quantity Passenger: 30 kg G  
Passenger LQ: Y203  
Excepted quantity: E0  
IATA-packing instructions - Passenger: 203  
IATA-max. quantity - Passenger: 75 kg  
IATA-packing instructions - Cargo: 203  
IATA-max. quantity - Cargo: 150 kg

#### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



#### Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The transport takes place only in approved and appropriate packaging.

#### Other applicable information



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## 15. Regulatory information

### U.S. Regulations

#### National regulatory information

SARA Section 304 CERCLA:

Ethyl acetate (141-78-6): Reportable quantity = 5,000 (2270) lbs. (kg)

Cyclohexane (110-82-7): Reportable quantity = 1,000 (454) lbs. (kg)

SARA Section 311/312 Hazards:

Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes (64742-49-0): Fire hazard, Immediate (acute) health hazard

Ethyl acetate (141-78-6): Fire hazard, Immediate (acute) health hazard

Butane (106-97-8): Sudden release of pressure

Propane (74-98-6): Fire hazard, Sudden release of pressure

Isobutane (75-28-5): Fire hazard, Sudden release of pressure

Cyclohexane (110-82-7): Fire hazard, Immediate (acute) health hazard

SARA Section 313 Toxic release inventory:

Cyclohexane (110-82-7): De minimis limit = 1.0 %, Reportable threshold = Standard

Clean Air Act Section 112(r):

Butane (106-97-8): Threshold quantities = 10,000 lbs.

Propane (74-98-6): Threshold quantities = 10,000 lbs.

Isobutane (75-28-5): Threshold quantities = 10,000 lbs.

### State Regulations

#### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

## 16. Other information

### Changes

Revision date: 03.03.2026

Revision No: 2,8

This data sheet contains changes from the previous version in section(s): 2,9,10,11,14.

### 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

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LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

**Other data**

The information in this document is based on the present state of knowledge and is applicable to the product with regard to appropriate safety precautions.

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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*