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

### **1.1. Product identifier**

TIP TOP ICE-FREE

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

593 0106, 593 0113

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

#### **Use of the substance/mixture**

Car polish

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

REMA TIP TOP GmbH

Gruber Strasse 63

D-85586 Poing

Telephone: +49 (0) 8121 / 707 - 0

Responsible for the safety data sheet: 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

R phrases:

Highly flammable.

Vapours may cause drowsiness and dizziness.

### **2.2. Label elements**

Danger symbols: F - Highly flammable



F - Highly flammable

#### **R phrases**

11 Highly flammable.

67 Vapours may cause drowsiness and dizziness.

#### **S phrases**

02 Keep out of the reach of children.

07 Keep container tightly closed.

16 Keep away from sources of ignition - No smoking.

46 If swallowed, seek medical advice immediately and show this container or label.

24/25 Avoid contact with skin and eyes.

### **2.3. Other hazards**

Vapours may form explosive mixture with air.

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

### **3.2. Mixtures**

#### **Chemical characterization**

De-icing agent

#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
200-578-6	Ethanol	
64-17-5	F - Highly flammable R11	< 35 %
603-002-00-5	Flam. Liq. 2, Eye Irrit. 2; H225 H319	
01-2119457610-43		
203-473-3	Ethane-1,2-diol	
107-21-1	Xn - Harmful R22	< 25 %
603-027-00-1	Acute Tox. 4, STOT RE 2; H302 H373	
01-2119456816-28		
200-661-7	Propan-2-ol	
67-63-0	F - Highly flammable, Xi - Irritant R11-36-67	< 20 %
603-117-00-0	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
01-2119455582-50		

Full text of R and H phrases: see Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated soaked clothing immediately.  
 If you feel unwell, seek medical advice.

#### 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 immediately with soap and plenty of water.

#### 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

Seek medical treatment immediately.  
 Never give anything by mouth to an unconscious person.  
 Induce vomiting only upon the advice of a physician.

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

Vapours may cause drowsiness and dizziness.  
 Contact with eyes may cause irritation.  
 Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.  
 High concentration of vapours may cause irritation to eyes and respiratory system and produce narcotic effects.

### 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 (CO<sub>2</sub>), water-spray.

#### Extinguishing media which must not be used for safety reasons

Full water jet.

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

Fire may produce:  
 Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).

### 5.3. Advice for firefighters

Use breathing apparatus with independent air supply.

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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.

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**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.

Ensure adequate ventilation.

Use personal protective clothing.

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.

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**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Provide sufficient air exchange and/or exhaust in work rooms.

When using, do not eat, drink or smoke.

Do not breathe vapours.

Avoid contact with skin, eyes and clothing.

**Advice on protection against fire and explosion**

Do not smoke - volatile.

Keep product and empty container away from heat and sources of ignition.

Take precautionary measures against static discharges.

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.

Take precautionary measures against static discharges.

**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)**

Car polish

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

**8.1. Control parameters**

## Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

## 8.2. Exposure controls

### Occupational exposure controls

Ensure adequate ventilation, especially in confined areas.  
 Pay attention to explosion protection guidelines.

### 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.  
 Avoid contact with skin, eyes and clothing.  
 Remove soiled or soaked clothing immediately.

### Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 141).

### Hand protection

Protective gloves resistant to chemicals made off viton, minimum coat thickness 0,7 mm, permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Vitoject 890> 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

Tightly fitting goggles (EN 166).  
 Eye wash bottle with pure water (EN 15154).

### Skin protection

Long sleeved clothing (EN 368).

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state: Liquid  
 Colour: Light brown  
 Odour: Alcoholic

### Test method

### Changes in the physical state

Initial boiling point and boiling range: > 78 °C  
 Flash point: 13 °C

### Explosive properties

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

Lower explosion limits: 0,6 vol. %  
 Upper explosion limits: 15,3 vol. %  
 Ignition temperature: 305 °C  
 Vapour pressure: 57 hPa  
 (at 20 °C)  
 Density (at 20 °C): approx. 0,88 g/cm<sup>3</sup>  
 Water solubility: Partially miscible  
 (at 20 °C)

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Solvent content: approx. 85 %

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## **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**

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 (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).

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## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute toxicity**

No toxicological data available.

#### **Irritation and corrosivity**

Eye irritation: Not classified.

Skin irritation: Not classified.

#### **Sensitising effects**

Not classified.

#### **Severe effects after repeated or prolonged exposure**

STOT - Single exposure: Vapours may cause drowsiness and dizziness.

STOT - Repeated exposure: Not classified.

Aspiration hazard: Not classified.

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

Carcinogenicity: Not classified.

Mutagenicity: Not classified.

Teratogenicity: Not classified.

#### **Additional information on tests**

Classification in compliance with the assessment procedure specified in the EC guidelines 1999/45/EC.

#### **Empirical data on effects on humans**

Contact with eyes may cause irritation.

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

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

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## **SECTION 12: Ecological information**

### **12.1. Toxicity**

Ecological data are not available.

### **12.2. Persistence and degradability**

Propan-2-ol; Ethanol; Ethane-1,2-diol

Readily biodegradable (to OECD criteria)

### **12.3. Bioaccumulative potential**

Propan-2-ol; Ethanol; Ethane-1,2-diol

Low bio-accumulation can be estimated because of low log Po/w.

### **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

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substance.

**12.6. Other adverse effects**

Low hazard to waters.

**Further information**

Do not flush into surface water or sanitary sewer system.

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**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**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**

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

**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.

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**SECTION 14: Transport information**

**Land transport (ADR/RID)**

<b>14.1. UN number:</b>	UN1987
<b>14.2. UN proper shipping name:</b>	ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II
Hazard label:	3



Classification code:	F1
Limited quantity:	1 L / 30 kg
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E

**Inland waterways transport (ADN)**

<b>14.1. UN number:</b>	UN1987
<b>14.2. UN proper shipping name:</b>	ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II
Hazard label:	3



Classification code:	F1
Limited quantity:	1 L / 30 kg

**Marine transport (IMDG)**

<b>14.1. UN number:</b>	UN1987
<b>14.2. UN proper shipping name:</b>	ALCOHOLS, N.O.S. (ethanol and 2-propanol)
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II
Hazard label:	3



Marine pollutant: No  
Limited quantity: 1 L / 30 kg  
EmS: F-E, S-D

**Air transport (ICAO)**

**UN/ID number:** UN1987  
**14.2. UN proper shipping name:** ALCOHOLS, N.O.S. (ethanol and 2-propanol, solution)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Limited quantity Passenger: Y341 / 1 L  
IATA-packing instructions - Passenger: 353  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 364  
IATA-max. quantity - Cargo: 60 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**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.

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**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): 50,8 %

**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.

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**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  
VOC = Volatile organic compound

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STOT SE = Specific target organ toxicity single exposure  
STOT RE = Specific target organ toxicity repeated exposure  
PBT = Persistent Bioaccumulative and Toxic  
vPvB = Very Persistent and very Bio-accumulative  
bw = body weight  
LD = Lethal dose  
LC = Lethal concentration  
EC = Effect concentration  
IC = Median immobilisation concentration or median inhibitory concentration

**Full text of R phrases referred to under Sections 2 and 3**

11 Highly flammable.  
22 Harmful if swallowed.  
36 Irritating to eyes.  
67 Vapours may cause drowsiness and dizziness.

**Full text of H statements referred to under Sections 2 and 3**

H225 Highly flammable liquid and vapour.  
H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.

**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.)*