

# TECPO

## Kältespray\_EN

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

#### 1.1. Product identifier

**Trade name**

TECPO Kältespray\_EN

**Article No.**

300417

**UFI code**

750U-4U40-500A-5TK6

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

**Relevant identified uses**

See product name

**Not suitable for use in**

No further relevant information available.

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

**SDS created by**

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### 1.4. Emergency telephone number

**Poison center/Additional emergency number**

+49 (0) 89 19240 (Available 24/7) - Poison Emergency Call Munich (Available for the public.)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

**Classification**

Aerosol, Hazard category 1

**Hazard statements**

H222, H229

**Description**

The product is classified and labeled according to the CLP regulation.

### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

**Hazard pictograms**



**Signal word**

Danger

**Hazard statements**

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P271 Use only outdoors or in a well-ventilated area.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

P501 Dispose of contents/container to dispose of in accordance with local / regional / national / international regulations..

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### 2.3. Other hazards

Cryogenically liquefied gas. Contact with the product can cause cold burns or frostbite. Until the flammable components have completely evaporated, there is a risk of explosive vapor-air mixtures forming even after use.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrases M factor acute M factor chronic	Specific concentration limits ATE	Note
butane	106-97-8 203-448-7 01-2119474691-32 601-004-00-0	65 - <70%	Flam. Gas 1, Press. Gas - Liquefied gas	H220, H280 - -		-
propane	74-98-6 200-827-9 01-2119486944-21 601-003-00-5	30 - <35%	Flam. Gas 1, Press. Gas - Liquefied gas	H220, H280 - -		-

#### **Substance additional information**

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In all cases of doubt or if symptoms are present, seek medical advice.

#### **Inhalation**

Provide fresh air.

#### **Skin contact**

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

#### **Eye contact**

Rinse immediately and thoroughly with an eye wash or with water. If eye irritation occurs, consult an ophthalmologist.

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### Ingestion

Exposure route not applicable.

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

Cryogenically liquefied gas. Contact with the product can cause cold burns or frostbite.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water spray jet, carbon dioxide (CO<sub>2</sub>), foam, extinguishing powder. Use foam, carbon dioxide or dry powder to extinguish.

#### Unsuitable extinguishing media

Water.

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

Extremely flammable aerosol. Pressurised container: May burst if heated. Vapors can form an explosive mixture with air.

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

Self-contained breathing apparatus.

### Other

#### Measures in case of fire

Cool endangered containers with water spray.

## SECTION 6: Accidental release measures

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

Keep ignition sources away.

Staff not trained for emergencies:

Ventilate the affected area. Remove all sources of ignition. Bring people to safety.

Emergency services:

Respiratory protection must be used when exposed to vapors, dusts and aerosols.

### 6.2. Environmental precautions

Do not allow uncontrolled release of product into the environment. Explosion hazard.

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

Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder). Dispose of the collected material in accordance with the regulations (Section 13).

### 6.4. Reference to other sections

See SECTIONS 7+8+13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Preventive handling precautions

Instructions for safe handling:

Do not pierce or burn, even after use.

Notes on fire and explosion protection:

Do not spray against flames or glowing objects. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapors may form explosive mixtures with air. Heating leads to an increase in pressure and risk of bursting.

#### General hygiene

Remove contaminated clothing. Wash hands before breaks and at the end of work. Do not eat, drink, smoke or take snuff at the workplace.

### 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers:

Store container in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Storage instructions:

Do not store together with: Oxidizing agents. Pyrophoric or self-heating hazardous substances.

Storage class according to TRGS 510: 2B Compressed gas packs (aerosol dispensers)

### 7.3. Specific end use(s)

See use of the product, SECTION 1.2

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m <sup>3</sup>	Source	Remark	Year
Isobutan	75-28-5 -	1000 / 2400	TRGS 900	4(II)	-
butane	106-97-8 203-448-7	1000 / 2400	TRGS 900	4(II)	-
propane	74-98-6 200-827-9	1000 / 1800	TRGS 900	4 (II)	-

#### 8.2. Exposure controls

##### Appropriate engineering controls

Wear personal protective equipment.

##### Personal Protective Equipment Symbols



##### Eye / face protection

Wear eye protection/face protection. Suitable eye protection: Frame goggles with side protection DIN EN 166

##### Hand protection

When handling chemical substances, only chemical protective gloves with a CE mark including a four-digit test number may be worn. The design of chemical protective gloves must be depending on the concentration and quantity of hazardous substances. It is recommended recommended to clarify the chemical resistance of the above-mentioned protective gloves for special applications with the glove manufacturer.

Recommended glove type: Mittens, insulated

##### Other skin protection

Wear antistatic shoes and work clothing.

##### Respiratory protection

Under normal conditions of use respiration protection should not be required.

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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**

aliphatic hydrocarbons

**Melting point / freezing point**

Not applicable.

**Boiling point or initial boiling point and boiling range**

< -20 °C

**Flammability**

Not determined.

**Lower and upper explosion limit**

Lower: 5% by volume; Upper: 15% by volume

**Flash point**

< -20 °C

**Auto-ignition temperature**

537 °C

**Decomposition temperature**

Not determined.

**pH**

Not applicable.

**Kinematic viscosity**

Not applicable.

**Solubility**

No data available

**Water solubility**

insoluble

**Partition coefficient n-octanol/water**

Not determined.

**Vapour pressure**

Not determined.

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**Density and/or relative density**

0,56 g/cm<sup>3</sup>

**Relative vapour density**

Not determined.

**Evaporation Rate**

Not determined.

**Explosive properties**

Heating may cause an explosion.

**Oxidising properties**

Not oxidizing.

**VOC %**

560 g/l

**Particle characteristics**

Not applicable.

**9.2. Other information**

No data available

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

Extremely flammable aerosol. Pressurised container: May burst if heated.

**10.2. Chemical stability**

Stable under normal temperature conditions.

**10.3. Possibility of hazardous reactions**

No dangerous reactions are known.

**10.4. Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Vapors can form an explosive mixture with air.

**10.5. Incompatible materials**

There is no information available.

**10.6. Hazardous decomposition products**

No decomposition if stored and handled as directed.

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### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapor) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

##### **Acute toxicity**

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

##### **Skin corrosion/irritation**

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

##### **Serious eye damage/irritation**

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

##### **Respiratory or skin sensitisation**

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

##### **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.

##### **STOT-single exposure**

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

##### **STOT-repeated exposure**

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

##### **Aspiration hazard**

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

#### 11.2. Information on other hazards

##### **Endocrine disrupting properties**

This product does not contain any substance that exhibits endocrine disrupting properties towards humans, as no ingredient meets the criteria.

##### **Other information**

The mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [CLP].

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### SECTION 12: Ecological information

#### 12.1. Toxicity

##### Acute toxicity

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

##### Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
propane 74-98-6 / 200-827-9	LC50	53,141 mg/l	96 hours	fish
propane 74-98-6 / 200-827-9	NOEC	3,599 mg/l	30 days	fish

##### Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
propane 74-98-6 / 200-827-9	ErC50	20,586 mg/l	96 hours	Green algae

##### Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
propane 74-98-6 / 200-827-9	EC50	29,662 mg/l	48 hours	Daphnid
propane 74-98-6 / 200-827-9	NOEC	1,95 mg/l	30 days	Daphnid

#### 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

The product has not been tested.

Product / Substance name CAS / EC no.	LogKow / LogPow
butane	2,89

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Product / Substance name CAS / EC no.	LogKow / LogPow
106-97-8 / 203-448-7	
propane 74-98-6 / 200-827-9	2,36

### 12.4. Mobility in soil

#### Mobility

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not fulfill the PBT/vPvB criteria according to REACH, Annex XIII.

### 12.6. Endocrine disrupting properties

This product does not contain any substance that exhibits endocrine disrupting properties towards non-target organisms, as no ingredient fulfills the criteria.

### 12.7. Other adverse effects

No further relevant information available.

#### Other

#### German Water Class

NWG - not water endangering

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal considerations

Do not allow to enter drains or waterways. Disposal in accordance with official regulations.

#### Packaging

Contaminated packaging must be disposed of in the same way as the substance. Non-contaminated and completely emptied packaging can be recycled. Contact the responsible authorized waste disposal company for waste disposal.

Waste code	Waste description
16 05 04*	gases in pressure containers (including halons) containing hazardous substances

Please note - an asterisk (\*) next to a code denotes that it is HAZARDOUS WASTE.

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### SECTION 14: Transport information

#### 14.1. UN number

1950

#### 14.2. UN proper shipping name

**ADR / RID / ADN proper shipping name**

AEROSOLS, flammable

**IMDG proper shipping name**

AEROSOLS

#### 14.3. Transport hazard class(es)

**Label**

ADR/RID/ADN



2.1

IMDG



2.1

**ADR / RID Class**

2

Tunnel restriction code: D

Transportation category: 2

**ADR / RID Classification code**

5F

**IMDG Class**

2

#### 14.4. Packing group

ADR: -

IMDG: -

#### 14.5. Environmental hazards

No.

**IMDG Marine Pollutant**

No.

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### 14.6. Special precautions for user

Caution: Flammable gases.

#### IMDG EmS

F-D, S-U

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

#### Other

##### Additional information ADR-RID

Limited quantity: 1 L

Exempted quantity E0

##### Additional information IMDG

Limited quantity: 1 L

Exempted quantity E0

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

Annex XVII (REACH): The product is subject to the following restrictions according to Annex XVII, Regulation (EC) 1907/2006 (REACH): 3 , 40 , 75

Directive 2010/75/EU on industrial emissions: 100 % (560 g/l)

Directive 2004/42/EC on VOC paints and varnishes: 100 % (560 g/l)

Information on the SEVESO III Directive 2012/18/EU: P3a FLAMMABLE AEROSOLE

#### National regulations

Employment restrictions: Observe employment restrictions for young people (§ 22 JArbSchG)

Water Hazard Class (WGK): Not hazardous to water

Status Classification of mixtures according to Annex 1, No. 5 AwSV

Storage class: 2B Compressed gas packs (aerosol dispensers)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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### SECTION 16: Other information

#### **Phrase meaning**

Aerosol 1 - Aerosol, Hazard category 1  
Flam. Gas 1 - Flammable gases, hazard category 1  
Press. Gas - Liquefied gas - Gases under pressure, Liquefied gas  
H220 Extremely flammable gas.  
H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated  
H280 Contains gas under pressure; may explode if heated.

#### **Other**

#### **Additional information**

The information is based on our current state of knowledge, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship. The recipient of our products is responsible for observing existing laws and regulations. The information in this safety data sheet corresponds to the best of our knowledge at the time of printing. The information is intended to provide you with guidelines for the safe handling of the product mentioned in this safety data sheet during storage, processing, transportation and disposal. The information is not transferable to other products. If the product is mixed, blended or processed with other materials processed or subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise.

#### **Manufacturer's notes**

The data of the relevant components were taken from the latest safety data sheet of the upstream supplier.