

# SAFETY DATA SHEET

according to regulation 1907/2006/EC (REACH) and 1272/2008/EC



Trade name: **A.Z. Meisterteile de-icer**

Version: 2      Previous Issue / Date of last revision      Date of issue: 30. 06. 2020      Page: 1/(12)  
(manufacturers): - / 07. 10. 2022      Date revision: 08. 09. 2023

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

### 1.1. Product identifier

**A.Z. Meisterteile de-icer**

UFI: 21YV-FHJN-P42A-RW6X

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

Relevant identified uses: Maintenance product for residential and professional use.

Uses advised against: application other than the above.

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

Distributor Details:

UNIX Autó és Alkatrészkereskedelmi Kft.

H-1139 Budapest, Frangepán u. 55-57.

Tel.: +36 1 270 8700

Fax: +36 1 270 8799

E-mail: cs@unixauto.com

It is related to the use of the product  
technical information:

UNIX Autó és Alkatrészkereskedelmi Kft.  
H-1139 Budapest, Frangepán u. 55-57.

Tel.: +36 1 270 8700

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Responsible for SDS:

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Tel.: +36 1 270 8700

Fax: +36 1 270 8799

E-mail: cs@unixauto.com

### 1.4. Emergency telephone number

Emergency telephone (07-15<sup>20</sup> h): +36 1 270 8700 (CET) on workdays

Health Toxicological Information Service (ETTSZ 1097 Budapest, Albert Flórián út 2-6.)

Tel.: +36 80 201 199 (0-24 h, free number, can only be called from Hungary).

+36 1 476 6464 (0-24 h, can be called for a normal fee - also from abroad)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Hazard Class and Category:

Flam. Liq. 2

Acute Tox. 4

Hazard statement:

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

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## 2.2. Label elements

Product identification:    Trade name: **A.Z. Meistererteile de-icer**

Hazardous components: Ethylene glycol

GHS Pictogram:



Signal word:    **Danger**

Hazard statement:

**H225**    Highly flammable liquid and vapour.

**H302**    Harmful if swallowed.

Supplemental hazard information: -

Precautionary statements – General:

**P102**    Keep out of reach of children.

Precautionary statements – Prevention:

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

**P233**    Keep container tightly closed.

**P264**    Wash hands thoroughly after handling.

**P270**    Do not eat, drink or smoke when using this product.

**P280**    Wear protective gloves, protective clothing, eye protection/face protection.

Precautionary statements – Response:

**P301 + P312**    IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell.

**P330**    Rinse mouth.

**P303 + P361 + P353**    IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

**P370 + P378**    In case of fire: Use dry chemical powder, carbon dioxide, alcohol-resistant foam to extinguish.

Precautionary statements – Storage:

**P403 + P235**    Store in a well-ventilated place. Keep cool.

Precautionary statements – Disposal:

**P501**    Dispose of contents/container in accordance with national regulation.

Other liabilities for labelling:

Tactile warning of danger and child-resistant fastening:    Not required.

Transport classification: see section 14.

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## 2.3. Other hazards

Formation of explosive vapour/air mixture is possible.

Results of PBT and vPvB assessment: It does not meet the criteria for PBT or vPvB substances.

Endocrine disrupting properties: no data.

## SECTION 3:            Composition/information on ingredients

### 3.2. Mixtures

Chemical description:    Mixtures of the following substances and non-hazardous substances.

Component(s) / Hazardous component(s):

Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. %(m/m)
Ethanol REACH Registr. Nr.: 01-2119457610-43	200-578-6	64-17-5	Flam. Liq. 2	H225	55-65
Ethylene glycol REACH Registr. Nr.: 01-2119456816-28	203-473-3	107-21-1	Acute Tox. 4 STOT RE 2	H302 H373	5-15
Isopropyl alcohol REACH Registr. Nr.: no data	200-661-7	67-63-0	Flam. Liq. 2 Eye Irrit. 2. STOT SE 3	H225 H319 H336	<1.0
Ethyl methyl ketone REACH Registr. Nr.: no data	201-159-0	78-93-3	Flam. Liq. 2 Eye Irrit. 2. STOT SE 3	H225 H319 H336	<1.0

The full text of each relevant H- phrase and Hazard classes and cat. see in Section 16.

## SECTION 4:            First aid measures

### 4.1. Description of first aid measures

General information:    Never give anything by mouth to an unconscious person, or never induce vomiting.

Inhalation:            Remove exposed person to fresh air. In case of complaints, get medical advice.

Skin contact:            Remove contaminated clothing. Wash skin with large amounts of water, use soap. In case of persistent irritation, contact a doctor.

Eye contact:            Flush eyes with plenty of water for 10-15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

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Ingestion:                      Do not induce vomiting Get medical attention. Show the MSDS or label to the physician.

Protection of first-aid person: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation.

- 4.2. Most important symptoms and effects, both acute and delayed  
In case of ingestion, nausea and vomiting may occur. The ingestion of larger quantities may cause kidney damage. Effects may occur delayed.
- 4.3. Indication of any immediate medical attention and special treatment needed  
Treat symptomatically. Show the MSDS or label to the physician.

## SECTION 5: Fire-fighting measures

- 5.1. Extinguishing media  
Suitable extinguishing media:  
Dry chemical powder, carbon dioxide, alcohol-resistant foam.
- Unsuitable extinguishing media:  
Full water jet.
- 5.2. Special hazards arising from the substance or mixture  
Hazardous combustion products:  
In case of combustion carbon monoxide, carbon dioxide, various hydrocarbons and soot can be formed.
- 5.3. Advice for fire-fighters  
Special protective equipment:  
According to the existing fire-fighting regulations. Self-contained breathing apparatus.
- Further information:  
Use water spray just to cool down surfaces exposed to fire.  
Collect contaminated fire-fighting water separately. It must not enter the sewage system.  
Contaminated extinguishing water must be disposed of in accordance with official regulations.

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## SECTION 6: Accidental release measures

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

Personal precautions: see Section 8.

Keep persons not involved in rescue at a distance.

Sufficient ventilation should be provided.

Keep away from sources of ignition – No smoking.

Avoid contact with skin, clothing and eyes, inhalation of gas, vapour, aerosol.

### 6.2. Environmental precautions:

Prevent spills from entering into natural water, soil and drains by containing the liquid. All kind of ignition sources should be removed. Do not smoke. Notify relevant authority.

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

Exclude source of ignition. Adequate ventilation required in enclosed areas.

Keep away from sources of ignition. Use non-sparking tools.

Contain spilled liquid with (dry sand, earth, vermiculite etc.) and place in suitable containers for disposal (dangerous waste).

### 6.4. Reference to other sections

Personal precautions: see section 8.

Waste treatment methods: see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Keep general measures applied for normal operations with chemicals and extremely flammable aerosols.

Adequate ventilation or local exhaust must be provided.

Keep away from sources of ignition – No smoking.

Product can form flammable/explosive vapor/air mixtures.

Avoid accumulating electrostatic charge.

Avoid contact with skin, clothing and eyes, inhalation of vapour, aerosol.

Wash hands before breaks and at end of work.

Take off contaminated clothing and wash it before reuse.

When using do not eat or drink.

Handling temperature: no data.

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

Keep general measures applied for storage of pressure materials.

Store in dry, well-ventilated place in original, closed containers.

Keep away from direct sunshine, direct heat or ignition sources and strong oxidizing agents.

Keep away from food, drink and feed.

Keep out of reach of children.

Storage temperature: no data.

## 7.3. Specific end use(s)

Maintenance product for residential and professional use.

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters:

Substance	CAS number	Workplace exposure limit				Comments
		long term exposure limit (8- hr)		short term exposure limit (15- min.)		
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
<i>Ethylene glycol</i>	107-21-1	-	104	-	52	2000/39/EC
<i>Ethanol</i>	64-17-5	1000	1920	-	-	-
<i>Isopropyl alcohol</i>	67-63-0	400	999	50	1250	-
<i>Ethyl methyl ketone</i>	78-93-3	200	600	300	899	Sk, BMGV

### 8.2. Exposure controls

Engineering control measures:

Adequate ventilation.

Personal protection:

(a) Eye/face protection      Safety glasses in case of risk of eye contact (EN 166).

(b) Skin protection

(i) Hand protection      Protective gloves (EN 374).

Note: Manufacturer's directions for use and the conditions of application should be observed.

(ii) Other      Protective clothing.

(c) Respiratory protection      In case of exceeded exposure-limits respiratory protection with particle-filter is recommended.

(d) Thermal hazards      No data.

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

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## SECTION 9: Physical and chemical properties

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

- |  |  |
|--|--|
| a) Physical state:   | aerosol (active ingredient: liquid, under pressure)                              |
| b) Colour:   | colorless  |
| c) Odour:  | characteristic, alcohol odour  |
| d) Melting point/freezing point:                             | not available  |
| e) Boiling point or initial boiling point and boiling range: | not available  |
| f) Flammability:   | Highly flammable liquid and vapour.  |
| g) Lower and upper explosion limit:                          | Non-explosive, but the formation of an explosive vapour/air mixture is possible. |
| h) Flash point:  | not available  |
| i) Auto-ignition temperature:                                | not available  |
| j) Decomposition temperature:                                | not available  |
| k) pH:   | not available  |
| l) Kinematic viscosity:                                      | not available  |
| m) Solubility  |  |
| Solubility in water:   | soluble  |
| Solubility in other solvents:                                | not available  |
| n) Partition coefficient n-octanol/water (log value):        | not available  |
| o) Vapour pressure:  | not available  |
| p) Density and/or relative density:                          | not available  |
| q) Relative vapour density:                                  | not available  |
| r) Particle characteristics:                                 | not available  |

### 9.2. Other information

No data available.

## SECTION 10: Stability and reactivity

- |  |   |
|--|---|
| 10.1. Reactivity                         | Dangerous reactivity not known.   |
| 10.2. Chemical stability                 | No decomposition if stored and handled properly.  |
| 10.3. Possibility of hazardous reactions | Not known.  |
| 10.4. Conditions to avoid                | High temperature (over 50°C), ignition source, heat source, open flame, spark, direct sunlight, electrostatic charging. |
| 10.5. Incompatible materials             | Strong oxidizing agents, strong acids, alkalis.   |
| 10.6. Hazardous decomposition products   | No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5.   |

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## SECTION 11: Toxicological information

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

Acute toxicity: Harmful if swallowed.

Components:

*Propane (CAS: 74-98-6):*

Inhalation:	LC <sub>50</sub> (rat)	1443 mg/L/4 h	(literature data)
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*Butane (CAS: 106-97-8):*

Inhalation:	LC <sub>50</sub> (rat)	658 mg/L/4 h	(literature data)
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*Isobutane (CAS: 75-28-5):*

Inhalation:	LC <sub>50</sub> (mouse)	974 mg/L/4 h	
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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: no data.

## SECTION 12: Ecological information

### 12.1. Toxicity      No data available for the product.

Components:

*Propane (CAS: 74-98-6):*

Fish:	LC <sub>50</sub>	49.47 mg/L	(literature data)
Other aquatic organisms:	LC <sub>50</sub>	27.14 mg/L	(literature data)
Algae:	EC <sub>50</sub>	11.89 mg/L/72 h	(literature data)



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## *Butane (CAS: 106-97-8):*

Fish:	LC <sub>50</sub>	24.11 mg/L	(literature data)
Other aquatic organisms:	LC <sub>50</sub>	14.22 mg/L	(literature data)
Algae:	EC <sub>50</sub>	7.71 mg/L/96 h	(literature data)

## *Isobutane (CAS: 75-28-5):*

Fish:	LC <sub>50</sub>	27.98 mg/L	(literature data)
Other aquatic organisms:	LC <sub>50</sub>	16.33 mg/L	(literature data)
Algae:	EC <sub>50</sub>	8.57 mg/L/96 h	(literature data)

### 12.2. Persistence and degradability

Biodegradability: No data available.

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data.

Mobility in water:

No data.

### 12.5. Results of PBT and vPvB assessment

Does not contain PBT and vPvB substances.

### 12.6. Endocrine disrupting properties

No data.

### 12.7. Other adverse effects

Water hazard class (German): No data.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product disposal:

Wastes of the product or used oil should be treated as hazardous waste.

Waste Identification Code: 14 06 03\*

Other solvents and solvent mixtures.

Disposal must be in compliance with national and local regulations.

Recommended waste treatment method: incineration

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## Packaging disposal:

Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations.

Waste Identification Code: 15 01 10\*

Packaging containing residues of or contaminated by dangerous substances.

Disposal must be in compliance with national and local regulations.

## Wastewater:

Quality of wastewater emitted to natural water must comply with national and local regulations.

Care should be taken in any case to ensure compliance with EC, national and local regulations. It is the responsibility of the user to know all relevant national and local regulations.

## SECTION 14: Transport information

### Land transport:

Road/ Railway

ADR/RID:

14.1. UN number or ID number	1993
14.2. UN proper shipping name	FLAMMABLE LIQUID, N.O.S.
14.3. Transport hazard class(es)	3 (classification code: F1)
14.4. Packing group	II
14.5. Environmental hazards:	no
Marine pollutant:	no
14.6. Special precautions for user	-
14.7. Maritime transport in bulk according to IMO instruments	does not apply

## SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 2020/878/EU) and to Regulation (EC) 1272/2008.

Seveso category: P5.c.

15.2. Chemical safety assessment.  
not available

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## SECTION 16: Other information

The information given in this data sheet is based on our best knowledge at the time of publication. The information is related only to this product and is intended to assist its safe transport, handling and use. The given physical and chemical parameters describe the product only for the purpose of safety requirements and therefore should not be construed as guaranteeing any specific property of the product or as being part of a product specification or any contract.

The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. It is the responsibility of the user to keep regulatory precautions and observe recommendations for safe use of the product.

Classification for mixtures and used evaluation method according to regulation 1272/2008/EC (CLP)

Flam. Liq. 2	H225	calculation method (based on flammable components)
Acute Tox. 4	H302	calculation method

*The full text of each relevant Hazard classes and cat. and H- phrase in Section 3.:*

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
Flam. Liq. 2	Flammable liquid Category 2
Acute Tox. 4	Acute toxicity Category 4
STOT RE 2	Specific target organ toxicity – repeated exposure Category 2

### Legend:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration Factor
BOD	Biological Oxygen Demand
Bw	Body Weight
C&L	Classification and Labelling
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging (1272/2008/EC)
CMR	Carcinogenic, Mutagenic or toxic to Reproduction
COD	Chemical Oxygen Demand
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report

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DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
ECHA	European Chemicals Agency
Ec <sub>x</sub>	Effective Concentration x%
Ed <sub>x</sub>	Effective Dose x%
ELINCS	European List of Notified Chemical Substances
ErC50	EC50 in terms of reduction of growth rate;
ES	Exposure Scenario
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC <sub>x</sub>	Lethal Concentration x%
LD <sub>x</sub>	Lethal Dose x%
LOAEC	Lowest Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest Observed Effect Level
NOEC	No observed effect concentration
NOEL	No observed effect level
NLP	No-Longer Polymer
NOAEL	No Observed Adverse Effect Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SVHC	Substance of Very High Concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bio-accumulative

## Revision Indicators:

Section	Subject of change	Date	Version
1-16	Revision modification according to 2020/878/EU. Full revision due to composition change.	08. 09. 2023	2