

SAFETY DATA SHEET

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



Trade name: **A.Z. Meisterteile Contact cleaner**

Version: 1

Latest revision: -

Date of issue: 12. 12. 2022

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

1.1 Product identifier:

A.Z. Meisterteile Contact cleaner

UFI: S1N8-PR6D-D12N-RG8Q

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

Relevant identified uses: Contact cleaner. For industrial, professional and residential 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.

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E-mail: cs@unixauto.com

Responsible for SDS:

UNIX Autó és Alkatrészkereskedelmi Kft.

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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 (07-15²⁰ h): +36 1 270 8700 (CET) on workdays

Health Toxicological Information Service (ETTSZ 1097 Budapest, Albert Flórián st. 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:

Aerosol 1

Aerosol 1

Eye Irrit. 2

Acute Tox. 4

STOT SE 3

STOT SE 3

Aquatic Chronic 3

Hazard statement:

H222 Extremely flammable aerosol

H229 Pressurized container: may burst if heated.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

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2.2 Label elements

Product identification: Trade name: **A.Z. Meistererteile Contact cleaner.**

Hazardous components: Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

GHS Pictogram:



Signal word:

Danger

Hazard statement:

- H222** Extremely flammable aerosol
- H229** Pressurized container: may burst if heated.
- H319** Causes serious eye irritation.
- H332** Harmful if inhaled.
- H335** May cause respiratory irritation.
- H336** May cause drowsiness or dizziness.
- H412** Harmful to aquatic life with long lasting effects.

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.
- P211** Do not spray on an open flame or other ignition source.
- P251** Do not pierce or burn, even after use.
- P261** Avoid breathing gas, vapours, spray.
- P271** Use only outdoors or in a well-ventilated area
- P273** Avoid release to the environment.

Precautionary statements – Response: -

- P303 + P361 + P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P304 + P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305 + P351 + P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary statements – Storage:

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

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Precautionary statements – Disposal:

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

Other liabilities for labelling:

Tactile warning of danger: Not required.

Transport classification: see section 14.

2.3 Other hazards

Product can form flammable/explosive vapour-air mixtures.

The product does not contain any PBT or vPvB substance according to annex XIII of regulation (EC) 1907/2006.

SECTION 3 Composition/information on ingredients

3.2 Mixtures

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

Component(s) / Hazardous component(s):

Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
Butane* REACH Registr. Nr.: 01-2119474691-32	203-448-7	106-97-8	Flam. Gas 1 Press. Gas	H220 H280	max. 45
Isobutane* REACH Registr. Nr.: 01-2119485395-27	200-857-2	75-28-5	Flam. Gas 1 Press. Gas	H220 H280	max. 45
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n- hexane REACH Registr. Nr.: 01-2119486291-36	926-605-8	-	Flam. Liq. 2 Asp. Tox. 1 STOT SE 3 Aquatic Chronic 2 EUH066	H225 H304 H336 H411	approx. 25
Ethanol REACH Registr. Nr.: 01-2119457610-43	200-578-6	64-17-5	Flam. Liq. 2 Eye Irrit. 2	H225 H319	approx. 25
Propane REACH Registr. Nr.: 01-2119486944-21	200-827-9	74-98-6	Flam. Gas 1 Press. Gas	H220 H280	max. 15
Isopropyl alcohol REACH Registr. Nr.: 01-2119457558-25	200-661-7	67-63-0	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336	<1.0
2-methylpropan-2-ol REACH Registr. Nr.: no data	200-889-7	75-65-0	Flam. Liq. 2 Eye Irrit. 2	H225 H319	<1.0

*Butadiene content: <0.1%

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

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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. Give oxygen if necessary. If breathing stops, apply artificial respiration.

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

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. Cover with gauze or clean cloth.

Ingestion: Not possible under normal conditions. Do not induce vomiting. Get medical attention.

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

If alcohol is inhaled or swallowed, coughing, headache, dizziness, drowsiness, stupor, and loss of consciousness may occur.

In case of eye contact: redness, pain, burning sensation.

In case of inhalation lack of oxygen.

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

Fire hazards:

Explosive.

5.1 Extinguishing media

Suitable extinguishing media:

Carbon dioxide, dry chemical powder, alcohol-resistant foam, water spray.

Unsuitable extinguishing media:

Full water jet.

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5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:

On burning, carbon monoxide, carbon dioxide, hydrocarbons, aldehydes and soot can be formed.

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.

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. Contain spilled liquid with sand, earth 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.

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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 vapour-air mixtures.

Keep away from heat, sparks, open flames, hot surfaces.

Keep container in vertical position avoiding falls and strokes.

Use explosion-proof and non-sparking tools.

Do not pierce or burn, even after use.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Avoid to accumulate electrostatic charge.

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

7.2 Conditions for safe storage, including any incompatibilities

Keep general measures applied for storage of flammable and explosive materials.

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

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

Keep away from food, drink.

Keep out of reach of children.

Storage temperature: no data.

7.3 Specific end use(s)

Contact cleaner. For industrial, professional and residential 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 ³	ppm	mg/m ³	
<i>Butane</i>	106-97-8	600	1450	750	1810	Carc

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Substance	CAS number	Workplace exposure limit				Comments
		long therm exposure limit (8- hr)		short therm exposure limit (15- min.)		
		ppm	mg/m ³	ppm	mg/m ³	
<i>Ethanol</i>	64-17-5	1000	1920	-	-	-
<i>Isopropyl alcohol</i>	67-63-0	400	999	500	1250	-
<i>2-methylpropan-2-ol</i>	75-65-0	100	308	150	462	-

8.2 Exposure controls

Engineering control measures:

Maintain suitable ventilation of the working place.

Personal protection:

- (a) Eye/face protection Protective goggles or face shield if splashes may occur (EN 166).
- (b) Skin protection
 - (i) Hand protection Protective gloves (EN 374). Material: neoprene, nitrile rubber, viton. Breakthrough time: >480 minutes.
Note: Manufacturer's directions for use and the conditions of application should be observed.
 - (ii) Other Protective clothing.
- (c) Respiratory protection In case of vapor or aerosol formation, a respirator with a suitable filter (A/P2) is required.
- (d) Thermal hazards No data.

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

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-yellowish
- c) Odour: characteristic
- d) Melting point/freezing point: not available
- e) Boiling point or initial boiling point and boiling range (DIN 51356): not available
- f) Flammability: Extremely flammable aerosol

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- | | |
|---|--|
| g) Lower and upper explosion limit: | Product is not explosive.
However, formation of explosive air/steam mixtures 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 | |
| | at 40°C: not available |
| | at 100°C: 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 at 20°C: | 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: | Formation of explosive gas, vapour, air mixture is possible. |
| 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 acids, oxidizing agents. |
| 10.6 Hazardous decomposition products: | No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5. |

SECTION 11 Toxicological information

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

Acute toxicity: Harmful if inhaled.

Components:

Propane (CAS: 74-98-6)

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

Inhalation: LC₅₀ (rat) 658 mg/L/4 h (literature data)

Isobutane (CAS: 75-28-5)

Inhalation: LC₅₀ (mouse) 974 mg/L/4 h (literature data)

Isopropyl alcohol (CAS: 67-63-0)

Oral: LD₅₀ (rat) 5280 mg/kg

Dermal: LD₅₀ (rabbit) 12 800 mg/kg

2-methylpropan-2-ol (CAS: 75-65-0)

Oral: LD₅₀ (rat) 2733 mg/kg

Dermal: LD₅₀ (rabbit) >2000 mg/kg

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Causes serious eye irritation.

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: May cause respiratory irritation.

May cause drowsiness or dizziness.

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

No data available.

SECTION 12 Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Components:

Ethanol (CAS: 64-17-5)

Fishes LC₅₀ 11 200 mg/L/24 h

Aquatic invertebrates: EC10/LC10 or
NOEC 9.6 mg/L/48 h

Algae: EC10/LC10 or
NOEC 11,5 mg/L/4 days

Isopropyl alcohol (CAS: 67-63-0)

Fish: LC₅₀ 9640 mg/L/96 h

Daphnia (*Daphnia magna*): EC₅₀ 13 299 mg/L/48 h

Algae: EC₅ >1000 mg/L/72 h

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2-methylpropan-2-ol (CAS: 75-65-0)

Fish:	LC ₅₀	6410 mg/L/96 h
Daphnia (Daphnia magna):	EC ₅₀	933 mg/L/48 h
Algae:	IC ₅	>1000 mg/L/72 h

Butane (CAS: 106-97-8)

Fish:	LC ₅₀	24.11 mg/L	(literature data)
Daphnia:	LC ₅₀	14.22 mg/L	(literature data)
Algae:	EC ₅₀	7.71 mg/L/96 h	(literature data)

Isobutane (CAS: 75-28-5)

Fish:	LC ₅₀	27.98 mg/L	(literature data)
Other aquatic organisms:	LC ₅₀	16.33 mg/L	(literature data)
Algae:	EC ₅₀	89.57 mg/L/96 h	(literature data)

Propane (CAS: 74-98-6)

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

12.2 Persistence and degradability
Biodegradability:

No data available for the product.
No data available for the product.

12.3 Bioaccumulative potential

No data available for the product.

Ethanol (CAS: 64-17-5)

Log Kow: -0.35, BCF: 3.2

Propane (CAS: 74-98-6)

Log Kow: 1.09 – 2.8 (literature data)

Butane (CAS: 106-97-8)

Log Kow: 1.09 – 2.8 (literature data)

Isobutane (CAS: 75-28-5)

Log Kow: 1.09 – 2.8 (literature data)

12.4 Mobility in soil

No data.

Mobility in water:

No data.

12.5 Results of PBT and vPvB assessment

No data.

12.6 Endocrine disrupting properties

No data.

12.7 Other adverse effects

Water hazard class (German):

No data.

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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: 16 05 04

Gases in pressure containers (including halons) containing dangerous substances.

Disposal must be in compliance with national and local regulations.

Recommended waste treatment method: incineration

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 04

Metallic packaging.

Waste Identification Code: 15 01 11*

Metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers.

Recommended waste treatment method: The material of the clean packaging material can be recycled. Contaminated packaging must be treated in the same way as the product.

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: | 1950 |
| 14.2 UN proper shipping name: | AEROSOLS |
| 14.3 Transport hazard class(es): | 2 (classification code: 5F) |
| 14.4 Packing group: | Not classified. |
| 14.5 Environmental hazards: | not dangerous for the environment |
| Marine pollutant: | no |
| 14.6 Special precautions for user: | |
| Labels: | 2.1 |
| Tunnel restriction code: | D |

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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: P3.a.
- 15.2 Chemical safety assessment.
not available

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)

Aerosol 1	H222 + H229	calculation method (based on flammable components)
Eye Irrit. 2	H319	calculation method
Acute Tox. 4	H332	calculation method
STOT SE 3	H335	manufacturer classification
STOT SE 3	H336	manufacturer classification
Aquatic Chronic 3	H412	calculation method

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

H220	Extremely flammable gas
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

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Flam. Gas 1	Flammable gas Category 1
Flam. Liq. 2	Flammable liquid Category 2
Press Gas	Compressed gas
Asp. Tox. 1	Aspiration hazard Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2.
STOT SE 3	Specific target organ toxicity — single exposure Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment, Chronic 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
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
ECHA	European Chemicals Agency
Ec _x	Effective Concentration x%
Ed _x	Effective Dose x%
ELINCS	European List of Notified Chemical Substances
ErC ₅₀	EC ₅₀ 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 _x	Lethal Concentration x%
LD _x	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

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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