according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



Trade name: A.Z. Meisterteile KFS 12-70 coolant, prediluted

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### Section 1 Identification of the mixture/substance and of the company/undertaking

1.1 Product identifier:

# A.Z. Meisterteile KFS 12-70 coolant, prediluted

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

Relevant identified uses: coolant, prediluted

Uses advised against: no data

1.3 Details of the supplier of the safety data sheet:

Trader identification: Technical information:

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

Tel.: 06 1 270 8700
Fax: 06 1 270 8799
Fax: 06 1 270 8799
Fax: 06 1 270 8799

E-mail: info@unixauto.hu E-mail: info@unixauto.hu

Responsible for SDS:

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

Tel.: 06 1 270 8700 Fax: 06 1 270 8799

E-mail: info@unixauto.hu

1.4 Emergency telephone number

Emergency telephone (07-19 h): +36 1 270 8700 (CET) on workdays

Health Toxicological Information Service (ETTSZ 1096 Budapest, Nagyvárad tér 2.)

Tel.: 36 80 201 199 (0-24 h, free number).

#### Section 2 Hazards identification

2.1 Classification of the <u>mixture</u> or substance

Hazard Class and Category: Hazard statement:

Acute Tox. 4 H302 Harmful if swallowed.

STOT RE 2 H373 May cause damage to organs through prolonged

or repeated exposure.

Repr. 2 H361d Suspected of damaging the unborn child.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



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2.2 Label elements

Product identification: Trade name: A.Z. Meisterteile KFS 12-70 coolant, prediluted

Hazardous components: Ethanediol(CAS: 107-21-1)

2-ethyl-hexanoic acid, sodium salt (CAS: 19766-89-3)

GHS Pictogram:





Signal word: Warning

Hazard statement:

H302 Harmful if swallowed

**H373** May cause damage to organs through prolonged or repeated exposure.

**H361d** Suspected of damaging the unborn child.

Supplemental hazard information: -

Precautionary statements – General:

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

P102 Keep out of the reach of children.

Precautionary statements - Prevention

**P260** Do not breathe mist, vapours, spray.

**P270** Do no eat, drink or smoke when using this product.

Precautionary statements - Response

P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you

feel unwell.

**P330** Rinse mouth.

**P308** + **P313** IF exposed or concerned: Get medical advice/attention.

Precautionary statements - Storage: -

Precautionary statements - Disposal

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

Other liabilities for labelling:

Tactile warning of danger: in case of distribution for population.

Transport classification: see section 14.

#### 2.3 Other hazards

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

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



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# Section 3 Composition/information on ingredients

#### 3.2 Mixtures

Chemical description: Ethylene glycol with additives, colorific.

Component(s) / Hazardous component(s):

Name	EU	CAS	Hazard classes	Hazard	Conc.
	number	number	and cat.	statements	%(m/m)
Ethanediol	203-473-3	107-21-1	Acute Tox. 4	H302	max. 70
REACH Registr.Nr.:			STOT RE 2	H373	
01-2119456816-28					
2-ethyl-hexanoic acid,	243-283-8	19766-89-3	Repr. 2	H361d	max. 5.6
sodium salt					

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 if adverse effects are observed. If

breathing has stopped, apply artificial respiration. If breathing is labored,

administer oxygen. Get medical attention.

Skin Wash immediately with soap and water. If symptoms persist (redness,

contact: swelling, pain, bladder) get medical attention.

Eye contact: Flush immediately with plenty of running water for at least 15 minutes,

holding the eyelids open. Rest the eyes at least 30 minutes. If symptoms persist (redness, burning pain, dim-red sight, swelling) get medical attention.

Ingestion: Wash out the mouth immediately with water. Give plenty of water. Do not

induce vomiting! If vomiting occur spontaneously, lower head below waist to

prevent fluid entering the lungs. Get medical attention.

Protection of first-aid person: No individual specifications.

4.2 Most important symptoms and effects, both acute and delayed

Harmful if swallowed. May cause damage to the central nervous system (headache, dizziness, nausea, vomiting, drowsiness, confusion, involuntary eye movements cause) and the kidneys.

Suspected of damaging the unborn child.

4.3 Indication of any immediate medical attention and special treatment need

If swallowed, immediate medical attention is required: 2 hours, gastrolavage, etc.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



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## Section 5 Fire-fighting measures

Fire hazards:

Combustible.

#### 5.1 Extinguishing media

Suitable extinguishing media:

According to the existing fire-fighting regulations, powder, alcohol resistant foam, water, CO<sub>2</sub>.

Unsuitable extinguishing media:

No data.

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

Hazardous combustion products:

On burning hazardous gases and vapours (carbon-dioxide, carbon-monoxide, other organic compounds) 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:

Cool containers and surroundings exposed to fire with water spray.

Vapours of ethanediol ethylene glycol heavier than air and form explosive mixture with air.

# Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Personal precautions: see Section 8.

#### 6.2 Environmental precautions:

Prevent spills from entering into natural water, soil and drains by containing the liquid. Notify relevant authority.

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

On soil: Exclude source of ignition. Adequate ventilation required in enclosed

areas.

Contain spilled liquid with sand, earth or other suitable absorbents. Recover free liquid by pumping. Dispose of according to local regulations.

Clean up with large amount of water the contaminated area.

On water: Notify local authorities according to regulations.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



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#### 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 flammable liquids.

Adequate ventilation required.

Keep material away from and open flame. No smoking.

Avoid contact with skin and eyes, inhalation of vapours.

Ensure washing facilities after working hours and before breaks. Take off contaminated clothing, wash with warm water and soap.

Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.

Handling temperature: no data

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

Storage facilities must comply with regulations for storing of chemicals and flammable liquids.

Keep material away from heat, sparks, and open flame. Store in cool, dry, well-ventilated area, in original, tightly closed containers.

Keep out of the reach of children. Keep away from food, drink.

Unsuitable storage materials are: not recommended using plated or galvanized iron or steel containers.

Storage temperature: -35 - +30°C

# 7.3 Specific end use(s)

Coolant, prediluted.

#### Section 8 Exposure controls / personal protection

Engineering control measures:

Not required.

# 8.1 Control parameters:

EU (2000/39/EC)

Ethanediol: Eight hours: 52 mg/m<sup>3</sup>

Short-term: 104 mg/m<sup>3</sup>

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



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8.2 Exposure controls

Personal protection:

Respiratory protection: Under normal use conditions, respirator is not usually

required.

Use approved breathing apparatus if vapours, mists and aerosols are generated or recommended exposure limits are

exceeded.

Hand protection: Protective gloves (chemical resistant) (EN 374).

Note: Manufacturer's directions for use and the conditions of

application should be observed.

Eye protection: Protective goggles.

Skin protection: Protective clothing, possibly chemical resistant protective

boots.

Other special: 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

Appearance:

Physical state: liquid
Colour: violet
Odour: mild

Change in physical state:

Crystallisation temperature (1:1)(ASTM D

1177): typ. –20°C Boiling point (ASTM D 1120): typ. 107°C

Others:

Flash point (COC) (ASTM D 92): typ. 128°C Ignition point: no data Flammability: no data Explosion limits: lower/upper: no data Decomposition temperature: unknown Oxidizing properties: no data Vapour pressure at 20°C: no data

Density at  $20^{\circ}$ C(ASTM D 1122):  $1.085 - 1.105 \text{ g/cm}^3$ 

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



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Solubility in water at 20°C: soluble in all proportion

Thermal decomposition: no data n-Octanol/water partition coefficient: no data Kinematic viscosity at 20°C: no data pH (ASTM D 1187): typ. 8.6

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: Direct heat or ignition sources. 10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition No dangerous decomposition products are formed under normal

products:

Nota:

conditions. Hazardous combustion products: See Section 5. Vapours of ethanediol heavier than air and form explosive

mixture with air.

#### Section 11 **Toxicological information**

11.1 Information on toxicological effects

Acute toxicity: No data for the product.

Ethanediol:

Oral: LD (human): 1200-1500 mg/kg Oral (OECD 401): 5840 mg/kg LD<sub>50</sub> (rat): LD<sub>50</sub> (guinea pig): 6610 mg/kg

LD<sub>50</sub> (mouse): 2780 mg/kg

Dermal (OECD 402): LD<sub>50</sub> (rabbit): 9530 mg/kg

The main component is ethanediol symptoms of glycol Note:

poisoning: breathing disorders, paralysis of central nervous

system and in case of severe toxicosis may be fatal.

May cause vomiting when ingested. Aspiration into the lungs may cause chemical pneumontitis. May produce central nervous

system disorders. Absorb on skin.

Vapours may cause narcosis.

In aerosol form in eyes can cause blindness.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



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Acute toxicity: irritation

Inhalation: not irritant (based on components)

Note: Elevated temperatures, mixing or mechanical action may form mists,

which may cause slightly burning effects in nose, throat and lungs.

Skin contact: not irritant (based on components)

Note: Prolonged and/or repeated contact may cause slight irritation: transient

burning effects, mild local redness on skin and/or swelling. Risk of skin

resorption.

In case of short term contact is not expected to other unlikely effects.

Eye contact: not irritant (based on components)

Note: May cause slight irritation: transient burning effects, mild redness

and/or dim sight.

Respiratory or skin sensitisation: not sensitising (based on components)

Other information, specific effects:

Germ cell mutagenicity: not known, resp. not mutagen (based on components)

Carcinogenicity: not known, resp. not carcinogen (based on

components)

Reproductive toxicity: Suspected of damaging the unborn child.

STOT-single exposure: not classified

STOT-repeated exposure: Suspected of damaging the unborn child.

Aspiration hazard: May cause vomiting when ingested. Aspiration into

the lungs may cause chemical pneumontitis.

#### **Section 12 Ecological information**

12.1 Toxicity No data available for the preparation.

Ethanediol:

Aquatic organisms: Fish toxicity:  $LC_{50} > 100 \text{ mg/l}$  (Literature)

Soil organisms: Bacteria toxicity: >1000 mg/l (Literature)

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



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12.2 Persistence and degradability

Biodegradability: Readily degradable. (Literature)

12.3 Bioaccumulative potential Has low bioaccumulation (ethylene glycol)

12.4 Mobility

Mobility in soil: Large spills to soil can contaminate groundwater.

Mobility in water: In water is fully dissolved.

12.5 Results of PBT and vPvB

assessment Does not contain PBT and vPvB substances.

12.6 Other adverse effects

Biological oxygen demand: *Ethanediol:* BOD: 0.81 g/g (Literature) Chemical oxygen demand: *Ethanediol:* COD: 1.29 g/g (Literature)

Heavy metal content: None. PCT, PCB and other chlorinated None.

hydrocarbons:

Effects on activated sludge: The product can be disposed in wastewater treatment

plant – biological stage of treatment (activation) after dilution in the ratio 1:1000 and after approval of

relevant authority and manager of the sewer.

Environmental effects: Do not empty into waterways without disposal.

Water hazard class (German): WGK 1 (Classification by VwVwS)

#### 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 01 14\*

Antifreeze fluids containing dangerous substances.

Disposal must be in compliance with national and local regulations.

Recommended waste treatment method: incineration

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



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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: Not classified.

14.1. UN number:

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

14.5. Environmental hazards:

14.6. Special precautions for user:

#### Waterways:

Inland waterways/ Sea transport ADN/IMDG: Not apply to the product.

Air transport: ICAO / IATA: Not apply to the product.

#### Section 15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the mixture. This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 2015/830/EU) and to Regulation (EC) 1272/2008.
- 15.2 Chemical safety assessment.

not available

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



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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.

Source of data presented in this material safety data sheet:

Test results of this product

Material safety data sheets of product's components

Hungarian and EU lists of dangerous substances

Relevant Hungarian regulation and EU directives

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

Acute Tox. 4 H302 calculated method STOT RE 2 H373 calculated method Repr. 2 H361d calculated method

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

H302 Harmful if swallowed.

H361d Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

Acute Tox. 4 Acute toxicity Category 4

Repr. 2 Reproductive toxicity Category 2

STOT RE 2 Specific target organ toxicity – repeated exposure Category 2

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



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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

Acute Toxicity Estimate ATE **Biocontrentration Factor BCF** BOD Biological Oxigen Demand

Body Weight Bw

Classification and Labeling C&L Chemical Abstracts Service CAS

Classification, Labelling and Packaging CLP

**CMR** Carcigonic, Mutagenic or toxic to Reproduction

COD Chemical Oxygen Demand CSA Chemical Safety Assessment **CSR** Chemical Safety Report Derived Minimal Effect Level DMEL Derived No Effect Level DNEL **ECHA** European Cheamicals Agency Effective Concentration x% Ecx

Effective Dose x% Edx

European List of Notified Chemical Substances ELINCS ErC50 EC50 in terms of reduction of growth rate;

ES Exposure Scenario

**ESIS** European Chemical Substances Information System International Agency for Research on Cancer **IARC** International Air Transport Association **IATA IMDG** International Maritime Dangerous Goods

Lethal Concentration x% LCx

Lethal Dose x% LDx

Lowest Observed Adverse Effect Concentration LOAEC

Lowest Observed Adverse Effect Level LOAEL

LCx Lethal Concentration x%

LDx Lethal Dose x%

LOAEC Lowest Observed Adverse Effect Concentration

Lowest Observed Adverse Effect Level LOAEL Lowest Observed Effect Concentration LOEC

LOEL Lowest Observed Effect Level **NOEC** No observed effect concentration

NOEL No observed effect level No-Longer Polymer NLP

No Observed Adverse Effect Level NOAEL

Organisation for Economic Cooperation and Development OECD

Persistent Bioaccumulative and Toxic **PBT PNEC** Predicted No-Effect Concentration

Registration, Evaluation, Authorisation and Restriction of Chemicals REACH

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



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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
3	Composition/information on ingredients	13.04.2016	2
9	Physical and chemical properties		
1-16	Other corrections, revision modification according to		
	2015/830 /EU		
Letterhead	Form	31. 03. 2017	2.1
1.3	E-mail address		