

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1. **Product identifier:**
A.Z. Meisterteile bug remover spray
- 1.2. **Relevant identified uses of the mixture and uses advised against:**
Spray for the removal of bugs from windshields. For industrial, consumer and professional use.
Uses advised against: Uses other than the recommended uses.
- 1.3. **Details of the supplier of the safety data sheet:**
Information about the distributor:
Unix Autó Kft.
1139 Budapest, Frangepán utca 55-57.
Tel.: 00 36 1 270 8700
- 1.3.1. Responsible person: -
E-mail: info@unixauto.hu
- 1.4. **Emergency telephone number:** Please fill in!

SECTION 2: HAZARDS IDENTIFICATION

- 2.1. **Classification of the mixture:**
Classification according to Regulation (EC) No 1272/2008 (CLP):
Skin corrosion/irritation, Hazard Category 2 – H315
Serious eye damage/eye irritation, Hazard Category 2 – H319
Specific target organ toxicity – Single exposure, Hazard Category 3, Respiratory tract irritation – H335

Hazard statements:

H315 – Causes skin irritation.
H319 – Causes serious eye irritation.
H335 – May cause respiratory irritation.

- 2.2. **Label elements:**

Components that define the hazards: 2-Aminoethanol



Hazard statements:

H315 – Causes skin irritation.
H319 – Causes serious eye irritation.
H335 – May cause respiratory irritation.

Precautionary statements:

P102 – Keep out of reach of children.
P302 + P352 – IF ON SKIN: Wash with plenty of water and soap.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Contents according to **Regulation (EC) No 648/2004** on detergents:

< 5 % anionic surfactants

< 5 % non-ionic surfactants

2.3. **Other hazards:**

The product has no other known specific hazards for human or environment.

Results of PBT and vPvB assessment: Not classified or no data is available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. **Substances:**

Not applicable.

3.2. **Mixtures:**

Description	CAS number	EC number / ECHA list number	REACH registration number	Conc. (%)	Classification according to Regulation (EC) No 1272/2008 (CLP)		
					Pictogram, signal word code(s)	Hazard class and category code(s)	Hazard statement code(s)
Diethylene glycol monobutyl ether* Index number: 603-096-00-8	112-34-5	203-961-6	-	< 5	GHS07 Warning	Eye Irrit. 2	H319
2-Aminoethanol* Index number: 603-030-00-8	141-43-5	205-483-3	-	< 5	GHS05 GHS07 Danger	Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Skin Corr. 1B	H332 H312 H302 H314
Sodium etasulphate***	126-92-1	204-812-8	-	< 5	GHS05 Danger	Skin Irrit. 2 Eye Dam. 1	H315 H318
Anionic surfactants***	mixture	mixture	-	< 5	GHS05 GHS07 Warning	Met. Corr. 1 Skin Irrit. 2 Eye Irrit. 2	H290 H315 H319
Non-ionic surfactants***	120944-58-5	-	-	< 5	GHS05 GHS07 Danger	Acute Tox. 4 Eye Dam. 1	H302 H318
Tetrasodium ethylene diamine tetraacetate** Index number: 607-428-00-2	64-02-8	200-573-9	-	< 1	GHS05 GHS07 Danger	Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1	H302 H332 H315 H318

*: Substance having occupational exposure limit value.

**: Classification specified by the manufacturer that includes other classification in addition to the classification specified by Regulation (EC) No 1272/2008.

***: Classification specified by the manufacturer; the substance is not listed in Annex VI of the Regulation (EC) No 1272/2008.

Specific concentration limits:

2-Aminoethanol (CAS: 141-43-5):

STOT SE 3; H335: C ≥ 5 %

For the full text of hazard statements, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

INGESTION:

Measures:

- Rinse mouth.
- Obtain medical attention if complaints occur.

INHALATION:

Measures:

- Take the victim into fresh air.
- Obtain medical attention if complaints occur.

SKIN CONTACT:

Measures:

- Immediately remove contaminated clothing.
- Wash skin with plenty of water.
- Obtain medical attention if skin problems occur.

EYE CONTACT:

Measures:

- Rinse eye immediately with plenty of running water, while keeping eyelids apart and moving the eyeballs.
- Continue to rinse for at least 15 minutes.
- Obtain medical attention if complaints occur.

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

Ingestion: May have a negative effect on health.

Inhalation: May cause irritation.

Skin contact: May cause irritation.

Eye contact: Causes irritation.

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

No special treatment needed; treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

5.1.1. Suitable extinguishing media:

Choose extinguishing media depending on surrounding fire.

5.1.2. Unsuitable extinguishing media:

No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture:

No special hazards known.

5.3. Advice for firefighters:

Wear full protective clothing and self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

6.1.1. For non-emergency personnel:

Allow only well-trained experts wearing suitable protective clothing to abide in the field of accident.

6.1.2. For emergency responders:

Avoid contact with skin and eyes.

Wear protective gloves and protective glasses during use.

6.2. Environmental precautions:

Dispose of the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.

6.3. Methods and material for containment and cleaning up:

In case of small spill, wash spilled product with plenty of water.

In case of large spill, collect spilled product with absorbent material (sand, earth) and place into a properly labelled container until disposal.

6.4. Reference to other sections:

For further and detailed information see Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

Observe conventional hygiene precautions.

Avoid contact with skin, eyes and clothing.

Do not eat, drink or smoke at the workplace.

Wash hands before breaks and at the end of the work.

Technical measures:

Provide adequate ventilation.

Precautions against fire and explosion:

No special instructions.

7.2. Conditions for safe storage, including any incompatibilities:

Technical measures and storage condition:

Store only in the original packaging.

Keep out of the reach of children.

Keep away from food, drinks and animal feed.

Incompatible materials: See Section 10.5

Packaging material: No special prescriptions.

7.3. Specific end use(s):

Spray for the removal of bugs from windshields.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Occupational exposure limit values (United Kingdom, EH40/2005 (Fourth Edition 2020)):

Diethylene glycol monobutyl ether (CAS: 112-34-5):

Long-term exposure limit (8-hr TWA reference period): 10 ppm; 67.5 mg/m³

Short-term exposure limit (15-minute reference period): 15 ppm; 101.2 mg/m³

2-Aminoethanol (CAS: 141-43-5):

Long-term exposure limit (8-hr TWA reference period): 1 ppm; 2.5 mg/m³

Short-term exposure limit (15-minute reference period): 3 ppm; 7.6 mg/m³

DNEL values		Oral exposure		Dermal exposure		Inhalative exposure	
		Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)
Consumer	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data
Worker	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data

PNEC values		
Compartment	Value	Note(s)
Freshwater	no data	no notes
Marine water	no data	no notes
Freshwater sediment	no data	no notes
Marine water sediment	no data	no notes
Sewage Treatment Plant (STP)	no data	no notes
Intermittent release	no data	no notes
Secondary poisoning	no data	no notes
Soil	no data	no notes

8.2. Exposure controls:

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

8.2.1. Appropriate engineering controls:

In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin. Provide adequate ventilation during use.

8.2.2. Individual protection measures, such as personal protective equipment:

Immediately remove contaminated clothing and wash before re-use.

Wash affected skin surface with water and soap.

Avoid contact with skin and eyes.

Avoid the inhalation of the product.

The information regarding personal protective equipment is only for informative purposes. A complete risk assessment is required before the use of the product for the determination of the appropriate personal protective equipment, taking local circumstances into account.

1. **Eye/face protection:** No special instructions.

2. **Skin protection:**

a. **Hand protection:** The use of appropriate protective rubber gloves is recommended even in the case of consumer use (EN 374).

b. **Other:** No special instructions.

3. **Respiratory protection:** No special instructions.

4. **Thermal hazards:** No thermal hazards known.

8.2.3. Environmental exposure controls:

No special instructions.

The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions, an expert's advice is necessary before deciding upon further protective measures.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Parameter	Value / Test method / Remarks
1. Appearance:	light yellow liquid
2. Odour:	odour according to chemical composition (butyl glycol)
3. Odour threshold:	no data*
4. pH:	9-10 (10 % solution)
5. Melting point/freezing point:	no data*
6. Initial boiling point and boiling range:	no data*
7. Flash point:	no data*
8. Evaporation rate:	no data*
9. Flammability (solid, gas):	no data*
10. Upper/lower flammability or explosive limits:	no data*
11. Vapour pressure:	no data*
12. Vapour density:	no data*
13. Relative density:	ca. 1
14. Solubility(ies):	completely miscible with water
15. Partition coefficient: n-octanol/water:	no data*
16. Auto-ignition temperature:	no data*
17. Decomposition temperature:	no data*
18. Viscosity:	no data*
19. Explosive properties:	no data*
20. Oxidizing properties:	no data*

9.2. Other information:

No other information available.

*: The manufacturer did not carry out any tests on this parameter for the product or the results of the tests are not available at the time of publication of the data sheet.

SECTION 10: STABILITY AND REACTIVITY

- 10.1. **Reactivity:**
No reactivity known.
- 10.2. **Chemical stability:**
Stable under normal conditions.
- 10.3. **Possibility of hazardous reactions:**
No hazardous reactions known.
- 10.4. **Conditions to avoid:**
Do not mix with other detergents or bases.
- 10.5. **Incompatible materials:**
No incompatible materials known.
- 10.6. **Hazardous decomposition products:**
No hazardous decomposition products are formed if stored as prescribed.

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1. **Information on toxicological effects:**
 - Acute toxicity:** Based on available data, the classification criteria are not met.
 - Skin corrosion/irritation:** Causes skin irritation.
 - 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.
 - 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.
- 11.1.1. **Summaries of the information derived from the test conducted:**
No data available.
- 11.1.2. **Relevant toxicological properties:**
No data available.
- 11.1.3. **Information on likely routes of exposure:**
Ingestion, inhalation, skin contact, eye contact.
- 11.1.4. **Symptoms related to the physical, chemical and toxicological characteristics:**
 - Ingestion: May have a negative effect on health.
 - Inhalation: May cause irritation.
 - Skin contact: May cause irritation.
 - Eye contact: Causes irritation.
- 11.1.5. **Delayed and immediate effects as well as chronic effects from short and long-term exposure:**
 - Causes skin irritation.
 - Causes serious eye irritation.
 - May cause respiratory irritation.
- 11.1.6. **Interactive effects:**
No data available.
- 11.1.7. **Absence of specific data:**
No information.
- 11.1.8. **Other information:**
No data available.

SECTION 12: ECOLOGICAL INFORMATION

- 12.1. Toxicity:**
Based on available data, the classification criteria are not met.
- 12.2. Persistence and degradability:**
No data available.
- 12.3. Bioaccumulation potential:**
No data available.
- 12.4. Mobility in soil:**
No data available; but the product as aqueous solution has high mobility.
- 12.5. Results of PBT and vPvB assessment:**
Not classified or no data is available.
- 12.6. Other adverse effects:**
Do not let the product into the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods:**
Disposal according to the local regulations.
- 13.1.1. Information regarding the disposal of the product:**
Do not dispose of together with household waste.
Do not empty into drains.
Dispose of in accordance with applicable regulations.
List of Waste Code:
07 06 04* other organic solvents, washing liquids and mother liquors
*: Hazardous waste.
- 13.1.2. Information regarding the disposal of the packaging:**
Dispose of in accordance with applicable regulations.
Empty containers may be collected together with household waste after rinsing with plenty of water.
- 13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified:**
No data available.
- 13.1.4. Sewage disposal:**
No data available.
- 13.1.5. Special precautions for any recommended waste treatment:**
No data available.

SECTION 14: TRANSPORT INFORMATION

Not subject to the conventions of carriage of dangerous goods.
Packaging units: 500 ml container with pump and nozzle.

- 14.1. UN Number:**
No UN Number.
- 14.2. UN proper shipping name:**
No proper shipping name.
- 14.3. Transport hazard class(es):**
No transport hazard classes.
- 14.4. Packing group:**
No packing group.
- 14.5. Environmental hazards:**
No relevant information available.
- 14.6. Special precautions for user:**
No relevant information available.
- 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:**
Not applicable.

SECTION 15: REGULATORY INFORMATION

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

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive (EC) No 1999/45 and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive (EEC) No 76/769 and Commission Directives (EEC) No 91/155, (EEC) No 93/67, (EC) No 93/105 and (EC) No 2000/21

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives (EEC) No 67/548 and (EC) No 1999/45, and amending Regulation (EC) No 1907/2006

COMMISSION REGULATION (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents

15.2. Chemical safety assessment: Chemical safety assessment has not been performed.

SECTION 16: OTHER INFORMATION

Information regarding the revision of the safety data sheet: No information.

Literature references / data sources:

Safety data sheet issued by the manufacturer (07. 05. 2020, version 1/HU).

Methods used for the classification according to Regulation (EC) No 1272/2008:

The classification of the product has been given by the manufacturer who knows the exact composition of the product. In Section 3 the weight percentages are given in ranges because of the confident nature of the exact composition.

Classification	Method
Skin corrosion/irritation, Hazard Category 2 – H315	Based on calculation method
Serious eye damage/eye irritation, Hazard Category 2 – H319	Based on calculation method
Specific target organ toxicity – Single exposure, Hazard Category 3, Respiratory tract irritation – H335	Based on expert judgement (data provided by the manufacturer)

Relevant hazard statements (code and full text) of Sections 2 and 3:

H290 – May be corrosive to metals.

H302 – Harmful if swallowed.

H312 – Harmful in contact with skin.

H314 – Causes severe skin burns and eye damage.

H315 – Causes skin irritation.

H318 – Causes serious eye damage.

H319 – Causes serious eye irritation.

H332 – Harmful if inhaled.

H335 – May cause respiratory irritation.

Training advice: No data available.

Full text of the abbreviations in the safety data sheet:

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate.

AOX: Adsorbable organic halides.

BCF: Bioconcentration factor.

BOD: Biological Oxygen Demand.

CAS number: Chemical Abstract Service number.

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

CMR effects: Carcinogenic, mutagenic, reprotoxic effects.

COD: Chemical Oxygen Demand.

CSA: Chemical Safety Assessment.

CSR: Chemical Safety Report.
DNEL: Derived-No-Effect-Level.
ECHA: European Chemical Agency.
EC: European Community.
EC number: EINECS and ELINCS numbers (see also EINECS and ELINCS).
EEC: European Economic Community.
EEA: European Economic Area (EU + Iceland, Liechtenstein and Norway).
EINECS: European Inventory of Existing Commercial Chemical Substances.
ELINCS: European List of Notified Chemical Substances.
EN: European Norm.
EU: European Union.
EWC: European Waste Catalogue (replaced by LoW – see below).
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
IATA: International Air Transport Association.
ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
IMSBC: International Maritime Solid Bulk Cargoes.
IUCLID: International Uniform Chemical Information Database.
IUPAC: International Union of Pure and Applied Chemistry.
Kow: n-Octanol - Water Partition Coefficient.
LC50: Lethal concentration resulting in 50 % mortality.
LD50: Lethal dose resulting in 50 % mortality (median lethal dose).
LoW: List of Waste.
LOEC: Lowest Observed Effect Concentration.
LOEL: Lowest Observed Effect Level.
NOEC: No Observed Effect Concentration.
NOEL: No Observed Effect Level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
OECD: Organization for Economic Cooperation and Development.
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic.
PNEC: Predicted No Effect Concentration.
QSAR: Quantitative Structure Activity Relationship.
REACH: Regulation 1907/2006/EC concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.
SCBA: Self Contained Breathing Apparatus.
SDS: Safety Data Sheet.
STOT: Specific Target Organ Toxicity.
SVHC: Substances of Very High Concern.
UN: United Nations.
UVCB: Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials.
VOC: Volatile Organic Compound.
vPvB: very Persistent and very Bioaccumulative.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.

The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information.

The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product.

It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.