

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 04.02.2020

Version number 3

Revision: 31.01.2020

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

- **1.1 Product identifier**
- **Trade name: *Liquid Elements Dust Cracker Wheel Cleaner***
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** *Wheel cleaner*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
*AREA 52 GmbH
Thüngenfeld 4
D-58256 Ennepetal
Germany
tel. +49-(0)2333-3068945*
- *e-mail: info@liquidelements.de*
- **Further information obtainable from:** *Product safety department*
- **1.4 Emergency telephone number:** *tel.: +49 (0)2333-3068945 (Monday to friday: 8:00 - 17:00)*

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS07

- *Acute Tox. 4 H302 Harmful if swallowed.*
- *Skin Sens. 1 H317 May cause an allergic skin reaction.*

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07

- **Signal word** *Warning*
- **Hazard-determining components of labelling:**
*ammonium mercaptoacetate
2-methylisothiazol-3(2H)-one (METHYLISOTHIAZOLINONE)*
- **Hazard statements**
*H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.*
- **Precautionary statements**
*P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P260 Do not breathe spray.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/producer if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P501 Dispose of contents/container to an authorised waste disposal contractor or licensed local authority disposal / landfill site.*
- **Additional information:** *Void*

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- Labelling of packages where the contents do not exceed 125 ml
- Hazard pictograms



GHS07

- Signal word **Warning**
- Hazard-determining components of labelling:
ammonium mercaptoacetate
2-methylisothiazol-3(2H)-one (METHYLISOTHIAZOLINONE)
- Hazard statements
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
- Precautionary statements
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P260 Do not breathe spray.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/producer if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P501 Dispose of contents/container to an authorised waste disposal contractor or licensed local authority disposal / landfill site.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT:
The product does not contain any PBT (PBT: persistent, bioaccumulative, toxic) substance or does not fulfil criteria for PBT according to annex XIII of regulation (EC) 1907/2006 (< 0,1 %).
- vPvB:
The product does not contain any vPvB (vPvB: very persistent, very bioaccumulative) substance or does not fulfil criteria for vPvB according to annex XIII of regulation (EC) 1907/2006 (< 0,1 %).

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures
- Description: Cleansing agent

· Dangerous components:

CAS: 5421-46-5 EINECS: 226-540-9 Reg.nr.: 01-2119531489-31	ammonium mercaptoacetate Acute Tox. 3, H301 Met. Corr. 1, H290 Skin Sens. 1B, H317	5-<15%
CAS: 147170-44-3 EC number: 931-333-8 Reg.nr.: 01-2119489410-39	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts Eye Dam. 1, H318 Aquatic Chronic 3, H412	1-<2.5%

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CAS: 68891-38-3 NLP: 500-234-8 Reg.nr.: 01-2119488639-16	Alcohols, C12-14, ethoxylated, sulfates, sodium salts Eye Dam. 1, H318 Skin Irrit. 2, H315 Aquatic Chronic 3, H412	1-<2.5%
CAS: 2682-20-4 EINECS: 220-239-6 Index number: 613-326-00-9 Reg.nr.: 01-2120764690-50	2 - m e t h y l i s o t h i a z o l - 3 (2 H) - o n e (METHYLISOTHIAZOLINONE) Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330 Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1) Skin Sens. 1A, H317	0.00015-<0.0015%

Regulation (EC) No 648/2004 on detergents / Labelling for contents

amphoteric surfactants, anionic surfactants, non-ionic surfactants

<5%

preservation agents (PHENOXYETHANOL, BUTYLBENZISOTHIAZOLINONE, BENZISOTHIAZOLINONE, METHYLISOTHIAZOLINONE, LAURYLAMINE DIPROPYLENEDIAMINE), perfumes

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
General information:

Immediately remove any clothing soiled by the product.

If symptoms persist consult doctor.

After inhalation: Fresh air. If pain persists, get medical attention.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Rinse out mouth and drink plenty of water.

Induce vomiting, if person is conscious. Seek medical help.

4.2 Most important symptoms and effects, both acute and delayed

Coughing

Nausea

Gastric or intestinal disorders

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed, induce vomiting (if patient is conscious).

Give activated charcoal to reduce resorption in the gastrointestinal tract.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: None known.

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

 Sulphur dioxide (SO₂)

Carbon monoxide (CO)

 Nitrogen oxides (NO_x)

5.3 Advice for firefighters
Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

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· **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective clothing.

Ensure adequate ventilation

· **6.2 Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

· **6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Observe the usual precautionary measures for handling chemicals.

Avoid contact with eyes and skin.

Do not breathe aerosol.

Use only in well ventilated areas.

Observe use instructions.

· **Information about fire - and explosion protection:** *No special measures required.*

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** *No special requirements.*

· **Information about storage in one common storage facility:**

Store away from oxidising agents.

Store away from reducing agents.

Store away from foodstuffs.

· **Further information about storage conditions:**

Store in dry conditions at 10 - 25 °C.

Protect from frost.

· **Storage class:** 10 - 13 (Germany)

· **7.3 Specific end use(s)** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** *No further data; see item 7.*

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information:** *The lists valid during the making were used as basis.*

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· **8.2 Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Observe the usual precautionary measures for handling chemicals.

Avoid contact with the eyes and skin.

Immediately remove all soiled and contaminated clothing

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

· **Respiratory protection:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

· **Recommended filter device for short term use:** Filter A· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Protective gloves according EN 374.

Check the permeability prior to each renewed use of the glove.

· **Material of gloves**

Butyl rubber, BR

Recommended thickness of the material: $\geq 0.6\text{-}0.8\text{ mm}$ Penetration time: ≥ 480 minutes (Permeation according to EN 374 Part 3: Level 6)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· **Eye protection:** Safety glasses· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:****Form:** Liquid**Colour:** Blue· **Odour:** Sulfurous

Perfumed

· **Odour threshold:** Not determined.· **pH-value at 20 °C:** 5-8· **Change in condition****Melting point/freezing point:** Not determined.**Initial boiling point and boiling range:** 100 °C· **Flash point:** $>100\text{ °C}$ · **Flammability (solid, gas):** Not applicable.· **Decomposition temperature:** Not determined.· **Auto-ignition temperature:** Product is not selfigniting.

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· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Oxidising properties	Not applicable.
· Vapour pressure:	Not determined.
· Density at 20 °C:	~ 1.1 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.0 %
Solids content:	Not determined.
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with strong acids and oxidising agents.
- **10.4 Conditions to avoid** Protect from frost.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- **Acute toxicity**
Harmful if swallowed.

· **LD/LC50 values relevant for classification:**

5421-46-5 ammonium mercaptoacetate

Oral	LD50	71 mg/kg (rat) (OECD 401)
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Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
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147170-44-3 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
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Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
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68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Oral	LD50	2,870 mg/kg (rat) (OECD 401)
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Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
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- **Primary irritant effect:**
- **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**
May cause an allergic skin reaction.
- **Repeated dose toxicity** No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
No further relevant information available.
- **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.

· **Germ cell mutagenicity****5421-46-5 ammonium mercaptoacetate**

Ames test negative (bacterial reverse mutation assay)

68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Ames test negative (bacterial reverse mutation assay)

- **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.

SECTION 12: Ecological information· **12.1 Toxicity**· **Aquatic toxicity:****5421-46-5 ammonium mercaptoacetate**

EC50 13 mg/l (algae) (OECD 201)

38 mg/l (daphnia magna) (48 h)

LC50 >100 mg/l (fish) (OECD 203)

147170-44-3 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts

EC50 >1-10 mg/l (algae) (OECD 201)

LC50 >1-10 mg/l (fish) (OECD 203)

68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts

EC50 27.7 mg/l (algae) (OECD 201)

7.4 mg/l (daphnia magna) (OECD 202)

LC50 7.1 mg/l (fish) (96 h)

NOEC 0.95 mg/l (algae) (OECD 201)

0.27 mg/l (daphnia magna) (21)

- **12.2 Persistence and degradability** The contained surfactants are easily biodegradable
- **12.3 Bioaccumulative potential** Bioaccumulation improbable.
- **12.4 Mobility in soil** No further relevant information available.

· **Additional ecological information:**· **General notes:**

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **12.5 Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

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· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Dispose of in accordance with all applicable local and national regulations.

· **European waste catalogue**

20 01 29*	detergents containing hazardous substances
15 01 10*	packaging containing residues of or contaminated by hazardous substances

· **Uncleaned packaging:**

· **Recommendation:**

Dispose of in accordance with all applicable local and national regulations.
Non contaminated packagings may be recycled.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, ADN, IMDG, IATA** Void

· **14.2 UN proper shipping name**

· **ADR, ADN, IMDG, IATA** Void

· **14.3 Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class** Void

· **14.4 Packing group**

· **ADR, IMDG, IATA** Void

· **14.5 Environmental hazards:**

· **Marine pollutant:** No

· **14.6 Special precautions for user**

Not applicable.

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **UN "Model Regulation":**

Void

SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **National regulations:**

· **Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed, if applicable.

· **Other regulations, limitations and prohibitive regulations** The product has to be fitted with a tactile warning.

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· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out, because it is not necessary for mixtures.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H290 May be corrosive to metals.
 H301 Toxic if swallowed.
 H311 Toxic in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H330 Fatal if inhaled.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

· **Training hints**

Instructions on hazards and protective measures based on operating instructions. The instructions must be given before start of employment and at least once a year.

· **Classification according to Regulation (EC) No 1272/2008**

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:**

Chemisches Labor & Consulting - Dr. Ulrich Bönig
 Simonshöfchen 55, D-42327 Wuppertal
 Germany
 Tel.: +49-(0)202-7387557

· **Contact: Mr. Boenig, PhD.**

· **Abbreviations and acronyms:**

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)
 REACH: 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.
 EC50: effective concentration, 50 percent
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 VCI: Verband der chemischen Industrie, Deutschland (German chemical industry association)
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: persistent, bioaccumulative, toxic
 vPvB: very persistent, very bioaccumulative
 Met. Corr. 1: Corrosive to metals – Category 1
 Acute Tox. 3: Acute toxicity - oral – Category 3
 Acute Tox. 4: Acute toxicity - oral – Category 4
 Acute Tox. 2: Acute toxicity - inhalation – Category 2
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Skin Sens. 1: Skin sensitisation – Category 1
 Skin Sens. 1A: Skin sensitisation – Category 1A
 Skin Sens. 1B: Skin sensitisation – Category 1B
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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Sources

The safety data sheet was prepared with the help of the relevant MSDS of the raw materials, data from the ECHA databases, current literature references and the guidelines of ECHA for the preparation of safety data sheets.

EU