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

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

- **1.1 Product identifier**
  
  **Gouging carbon electrode AL**
  
  Identified use: intended for professional use only!

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

- **1.3 Details of the supplier of the safety data sheet**
  
  Manufacturer/Supplier:
  Alexander BINZEL
  Schweiftechnik GmbH & Co.KG
  Postfach 10 01 53 / D-35331 Giessen
  Tel.: +49 (0) 6408 / 59-0
  Fax: +49 (0) 6408 / 59-191
  Mail: technischedokumentation@binzel-abicor.com

- **1.4 Emergency telephone number:**

  Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen
  Langenbeckstraße 1; Gebäude 601; 55131 Mainz
  Tel. Nr.: +49 (0)6131 / 19 24 0
  Universitätsmedizin der Johannes Gutenberg-Universität Mainz

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
  
  The product is not classified, according to the CLP regulation.

- **2.2 Label elements**
  
  Void

- **2.3 Other hazards**

  - **Results of PBT and vPvB assessment**
    
    - **PBT:** Not applicable.
    - **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
  
  - CAS No. Description: 8009-03-8 Petrolatum - 100 %
  - Identification number(s):
    - EC number: 232-373-2
    - Index number: 064-925-40-0

- **3.2 Chemical characterisation: Mixtures**
  
  - Description:
    Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

  | CAS: 7429-90-5 | aluminium powder (pyrophoric) | Flam. Sol. 1, H228 |
  | EINECS: 231-072-3 | | 10-50% |
  | Index number: 013-002-00-1 | | |
  | Reg.nr.: 01-2119529243-45 | | |

  | CAS: 1333-86-4 | Carbon black | substance with a Community workplace exposure limit |
  | EINECS: 215-609-9 | | 0.5-10% |
  | Reg.nr.: 01-2119384822-32 | | |

- **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. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. Do not leave affected persons unattended. Personal protection for the First Aider. Take affected persons out of danger area and lay down. In case of unconsciousness place patient stably in side position for transportation. Supply fresh air; consult doctor in case of complaints. Immediately wash with water and soap and rinse thoroughly. Seek medical treatment in case of complaints. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Protect unharmed eye. If symptoms persist consult doctor.

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SECTION 5: Firefighting measures

- 5.1 Extinguishing media
  - Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  - For safety reasons unsuitable extinguishing agents: Water with full jet

- 5.2 Special hazards arising from the substance or mixture
  - Formation of toxic gases is possible during heating or in case of fire.

- 5.3 Advice for firefighters
  - Protective equipment: Do not inhale explosion gases or combustion gases.
  - 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 equipment. Keep unprotected persons away.
  - Ensure adequate ventilation
  - Avoid contact with skin and eyes

- 6.2 Environmental precautions:
  - Prevent from spreading (e.g. by damming-in or oil barriers).
  - Inform respective authorities in case of seepage into water course or sewage system.

- 6.3 Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Dispose contaminated material as waste according to item 13.
  - Do not flush with water or aqueous cleansing agents

- 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
  - Store in cool, dry place in tightly closed receptacles.
  - Ensure good ventilation/exhaustion at the workplace.

- 7.2 Conditions for safe storage, including any incompatibilities
  - Storage:
    - Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
    - Information about storage in one common storage facility: Store away from foodstuffs.
    - Further information about storage conditions: Store in dry conditions.
      - Keep container tightly sealed.
      - Recommended storage temperature: 5-30 °C
  - Storage class: 10

- 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:

    | Substance | WEL | EL | Source |
    |-----------|-----|----|--------|
    | 7429-90-5 aluminium powder (pyrophoric) | | | |
    | 1333-86-4 Carbon black | | | |

- Regulatory information: WEL: EH40/2018
- Additional information: The lists valid during the making were used as basis.
  - Technical protection measures: a ventilation system must be used when welding in indoor areas.

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### SECTION 9: Physical and chemical properties

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

**- General Information**

**- Appearance:**
- **Form:** Solid
- **Colour:** Black
- **Odour:** Odourless
- **Odour threshold:** Not determined.

**- pH-value:** Not determined.

**- Change in condition**
- **Melting point/freezing point:**
  - C: 3527 °C
  - AL: 660 °C
- **Initial boiling point and boiling range:**
  - C: 4027 °C
  - AL: 2519 °C

**- Flash point:** Not applicable.

**- Flammability (solid, gas):** Not applicable.

**- Decomposition temperature:** Not determined.

**- Auto-ignition temperature:** Product is not selfigniting.

**- Explosive properties:** Product does not present an explosion hazard.

**- Explosion limits:**
- **Lower:** Not determined.
- **Upper:** Not determined.

**- Density:**
- C: 1.7 g/cm³
- AL: 2.7 g/cm³
- Not determined.

**- Relative density** Not determined.

**- Vapour density** Not determined.
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- Evaporation rate: Not determined.
- Solubility in / Miscibility with water: Not miscible or difficult to mix.
- Partition coefficient: n-octanol/water: Not determined.
- Viscosity:
  Dynamic: Not applicable.
  Kinematic: Not applicable.
- 9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity: A gas that is harmful to health can be created in the event of contact with an acidic chemical substance.
- 10.2 Chemical stability:
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions: No dangerous reactions known.
- 10.4 Conditions to avoid: No further relevant information available.
- 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: Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:
  - Oral LD50 >5,000 mg/kg (rat)
  - Dermal LD50 >2,000 mg/kg (rabbit)
- 7429-90-5 aluminium powder (pyrophoric)
  - Oral LD50 15,900 mg/kg (rat)
  - Inhalative LC50 0.888 mg/l (rat) (4h)
  - NOAEC 10 mg/m³ (rat)
- 1333-86-4 Carbon black
  - Oral LD50 10,000 mg/kg (rat)
- 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: Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
  - 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.

SECTION 12: Ecological information

- 12.1 Toxicity:
- Aquatic toxicity:
  - LC50/96 h >100 mg/l (Pimephales promelas)
  - EC50 >10,000 mg/l (Daphnia magna)
- 12.2 Persistence and degradability: No further relevant information available.
- 12.3 Bioaccumulative potential: No further relevant information available.
- 12.4 Mobility in soil: No further relevant information available.
- Additional ecological information:
  - General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Not hazardous for water.
- 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. Disposal according to official regulations
- Uncleaned packaging:
Recommendation
Disposal must be made according to official regulations.

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.
- 15.2 Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.

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

H228 Flammable solid.

- Department issuing SDS:
Technical Documentation
- Contact:
Technical Documentation

- Abbreviations and acronyms:
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
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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Sol. 1: Flammable solids – Category 1

- Sources
- www.echa.europa.eu
- www.baua.de
IFA: Institute für Occupational Safety and Health of the German Social Accident Insurance:
- www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp
- www.dguv.de/ifa/gestis/gestis-dnel-liste

* Data compared to the previous version altered.