

# Product information

**based on Regulation (EC) no. 1907/2006, Article 31**

Printing date 21.04.2023

Version number 3 (replaces version 2)

Revision: 21.04.2023

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

- **1.1 Product identifier**
  - **Trade name:** Gouging carbon electrode AL
  - **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  - **Product category**
  - **Application of the substance / the mixture**
  - **Manufacturer/Supplier:**
  - **Further information obtainable from:**
  - **1.4 Emergency telephone number:**
- Identified use: intended for professional use only!  
 Article according to Article 3 No. 3 of the REACH Regulation.  
 The classifications listed below are classifications of the pure substance and are provided for information purposes only.  
 Gouging  
 Alexander BINZEL  
 Schweißtechnik 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  
  
 Technical Documentation  
 Registration with a poison control center is not required for articles. In the event of an accident, contact the national emergency call center.

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**
  - **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**
  - **Hazard pictograms**
  - **Signal word**
  - **Hazard statements**
  - **2.3 Other hazards**
  - **Results of PBT and vPvB assessment**
  - **PBT:**
  - **vPvB:**
- Article according to Article 3 No. 3 of the REACH Regulation.  
 The classifications listed below are classifications of the pure substance and are provided for information purposes only.  
  
 The product is not classified, according to the CLP regulation.  
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 Void  
 Void  
 Void  
 Void  
 Not applicable.  
 Not applicable.

## SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
  - **Description:**
- Article according to REACH regulation article 3 n°3.  
 The classifications listed below are classifications of the pure substance and are provided for information purposes only.

- <b>Dangerous components:</b>			
CAS: 7782-42-5 EINECS: 231-955-3	Graphite	substance with a Community workplace exposure limit	≥50-≤100%
CAS: 7429-90-5 EINECS: 231-072-3	aluminium powder (pyrophoric)	Flam. Sol. 1, H228	≥10-≤50%
CAS: 1333-86-4 EINECS: 215-609-9	Carbon black	substance with a Community workplace exposure limit	≥0.5-≤10%

- **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:**
  - **After inhalation:**
  - **After skin contact:**
  - **After eye contact:**
- No special measures required.  
 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.

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- After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed: No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed: No further relevant information available.

## SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: Sand  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire extinguishing methods suitable to surrounding conditions.
- 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.  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO)
- 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: Not required.
- 6.2 Environmental precautions: No special measures required.  
Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- 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: No special measures required.
- 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: Store only in the original receptacle.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store in dry conditions.
- Storage class: 13
- 7.3 Specific end use(s): No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### - 8.1 Control parameters

#### - Ingredients with limit values that require monitoring at the workplace:

##### 7782-42-5 Graphite

OEL (Ireland)	Long-term value: 2 mg/m <sup>3</sup> respirable fraction
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##### 7429-90-5 aluminium powder (pyrophoric)

OEL (Ireland)	Long-term value: 1* mg/m <sup>3</sup> *metal, respirable fraction
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##### 1333-86-4 Carbon black

OEL (Ireland)	Long-term value: 3* mg/m <sup>3</sup> *inhalable fraction
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<ul style="list-style-type: none"> <li>- <b>Regulatory information</b></li> <li>- <b>Additional information:</b></li> <li>- <b>8.2 Exposure controls</b></li> <li>- <b>Appropriate engineering controls</b></li> <li>- <b>Individual protection measures, such as personal protective equipment</b></li> <li>- <b>General protective and hygienic measures:</b></li> <li>- <b>Respiratory protection:</b></li> <li>- <b>Hand protection</b></li> <li>- <b>Material of gloves</b></li> <li>- <b>Penetration time of glove material</b></li> </ul>	<p>OEL (Ireland): 2021 CoP for the Safety, Health and Welfare at Work The lists valid during the making were used as basis.</p> <p>No further data; see item 7.</p> <p>The usual precautionary measures are to be adhered to when handling chemicals.</p> <p>Not required.</p> <p>Leather gloves</p> <p>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.</p> <p>The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.</p>
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## SECTION 9: Physical and chemical properties

<b>- 9.1 Information on basic physical and chemical properties</b>	
<b>- General Information</b>	
- <b>Physical state</b>	Solid
- <b>Colour:</b>	Black
- <b>Odour:</b>	Odourless
- <b>Odour threshold:</b>	Not determined.
- <b>Melting point/freezing point:</b>	C: 3527 °C AL: 660 °C Undetermined.
- <b>Boiling point or initial boiling point and boiling range</b>	C: 4027 °C AL: 2519 °C Undetermined.
- <b>Flammability</b>	Not applicable.
- <b>Lower and upper explosion limit</b>	
- <b>Lower:</b>	Not determined.
- <b>Upper:</b>	Not determined.
- <b>Flash point:</b>	Not applicable.
- <b>Decomposition temperature:</b>	Not determined.
- <b>pH</b>	Not applicable.
- <b>Viscosity:</b>	
- <b>Kinematic viscosity</b>	Not applicable.
- <b>Dynamic:</b>	Not applicable.
- <b>Solubility</b>	
- <b>water:</b>	Not miscible or difficult to mix.
- <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
- <b>Density and/or relative density</b>	
- <b>Density:</b>	C: 1.7 g/cm <sup>3</sup> AL: 2.7 g/cm <sup>3</sup> Not determined.
- <b>Relative density</b>	Not determined.
- <b>Vapour density</b>	Not determined.
- <b>Particle characteristics</b>	See item 3.

<b>- 9.2 Other information</b>	
<b>- Appearance:</b>	
- <b>Form:</b>	Solid
<b>- Important information on protection of health and environment, and on safety.</b>	
- <b>Auto-ignition temperature:</b>	Product is not selfigniting.
- <b>Explosive properties:</b>	Product does not present an explosion hazard.
- <b>Change in condition</b>	
- <b>Evaporation rate</b>	Not determined.

<b>- Information with regard to physical hazard classes</b>	
- <b>Explosives</b>	Void
- <b>Flammable gases</b>	Void
- <b>Aerosols</b>	Void
- <b>Oxidising gases</b>	Void
- <b>Gases under pressure</b>	Void
- <b>Flammable liquids</b>	Void
- <b>Flammable solids</b>	Void
- <b>Self-reactive substances and mixtures</b>	Void

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- Pyrophoric liquids	Void
- Pyrophoric solids	Void
- Self-heating substances and mixtures	Void
- Substances and mixtures, which emit flammable gases in contact with water	Void
- Oxidising liquids	Void
- Oxidising solids	Void
- Organic peroxides	Void
- Corrosive to metals	Void
- Desensitised explosives	Void

## 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 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 hazard classes as defined in Regulation (EC) No 1272/2008	
- 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/m <sup>3</sup> (rat)

### 1333-86-4 Carbon black

Oral	LD50	10,000 mg/kg (rat)
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- 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.
- 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.
- 11.2 Information on other hazards	

### - Endocrine disrupting properties

None of the ingredients is listed.

## 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.
- 12.5 Results of PBT and vPvB assessment	
- PBT:	Not applicable.
- vPvB:	Not applicable.

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<ul style="list-style-type: none"> <li>- 12.6 Endocrine disrupting properties</li> <li>- 12.7 Other adverse effects</li> <li>- Additional ecological information:</li> <li>- General notes:</li> </ul>	<p>The product does not contain substances with endocrine disrupting properties.</p> <p>Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water</p>	(Contd. of page 4)
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## SECTION 13: Disposal considerations

- 13.1 Waste treatment methods	Disposal according to official regulations
- Recommendation	
- European waste catalogue	
17 04 09*	metal waste contaminated with hazardous substances
- Uncleaned packaging:	
- Recommendation:	Disposal must be made according to official regulations.

## SECTION 14: Transport information

- 14.1 UN number or ID number	Void
- ADR, ADN, IMDG, IATA	
- 14.2 UN proper shipping name	Void
- ADR, ADN, IMDG, IATA	
- 14.3 Transport hazard class(es)	Void
- ADR, ADN, IMDG, IATA	
- Class	
- 14.4 Packing group	Void
- ADR, IMDG, IATA	
- 14.5 Environmental hazards:	
- Marine pollutant:	No
- 14.6 Special precautions for user	Not applicable.
- 14.7 Maritime transport in bulk according to IMO instruments	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.
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II	
	None of the ingredients is listed.
- REGULATION (EU) 2019/1148	
- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))	
	None of the ingredients is listed.
- Annex II - REPORTABLE EXPLOSIVES PRECURSORS	
	None of the ingredients is listed.
- Regulation (EC) No 273/2004 on drug precursors	
	None of the ingredients is listed.
- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	
	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.  
The safety data sheet issued is also compliant with the regulation Annex I of Regulation (EU) no. 453/2010 and Annex II of Regulation (EU) no. 2020/878.

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| <ul style="list-style-type: none"> <li>- <b>Relevant phrases</b></li> <li>- <b>Department issuing SDS:</b></li> <li>- <b>Date of previous version:</b></li> <li>- <b>Version number of previous version:</b></li> <li>- <b>Abbreviations and acronyms:</b></li> <li><br/></li> <li>- <b>Sources</b></li> <li><br/></li> <li>- <b>* Data compared to the previous version altered.</b></li> </ul> | <p>H228 Flammable solid.</p> <p>Technical Documentation</p> <p>22.03.2023</p> <p>2</p> <p>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</p> <p>IMDG: International Maritime Code for Dangerous Goods</p> <p>IATA: International Air Transport Association</p> <p>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</p> <p>EINECS: European Inventory of Existing Commercial Chemical Substances</p> <p>ELINCS: European List of Notified Chemical Substances</p> <p>CAS: Chemical Abstracts Service (division of the American Chemical Society)</p> <p>LC50: Lethal concentration, 50 percent</p> <p>LD50: Lethal dose, 50 percent</p> <p>PBT: Persistent, Bioaccumulative and Toxic</p> <p>vPvB: very Persistent and very Bioaccumulative</p> <p>Flam. Sol. 1: Flammable solids – Category 1</p> <p>- <a href="http://www.echa.europa.eu">www.echa.europa.eu</a></p> <p>- <a href="http://www.baua.de">www.baua.de</a></p> <p>IFA: Institute für Occupational Safety and Health of the German Social Accident Insurance:</p> <p>- <a href="http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp">www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp</a></p> <p>- <a href="http://www.dguv.de/ifa/gestis/gestis-dnel-liste">www.dguv.de/ifa/gestis/gestis-dnel-liste</a></p> |
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