

Product information

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

Printing date 21.04.2023

Version number 1

Revision: 21.04.2023

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

- 1.1 Product identifier **WCe20**
 - Trade name:
 - 1.2 Relevant identified uses of the substance or mixture and uses advised against
 - Product category
 - Application of the substance / the mixture
 - 1.3 Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:
 - Further information obtainable from:
 - 1.4 Emergency telephone number:
- Nothing known
 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.
 Non-fusing electrode in the TIG welding process; Electrode for lighting technology; electrode for plasma melting, plasma cutting, plasma spraying (thermal spraying); emission cathode for electronic tubes
 ABICOR-BINZEL (UK) Ltd. Mill Lane
 Winwick Quay, Warrington WA28UA UK
 Contact Person: Kevin Chudley
 Email: kevin.chudley@binzel-abicor.co.uk
 Contact Number: 01925 653944
 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.
 Void
 Void
 Void
 Void
 Not applicable.
 Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures
 - Description:
 - Dangerous components:
 - Additional information:
- 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.
- | | | | |
|-------------------|----------|---|--------------|
| CAS: 7440-33-7 | tungsten | substance with a Community workplace exposure limit | 97.8 - 98.2% |
| EINECS: 231-143-9 | | | |
- 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:
 - After swallowing:
- 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.
 If symptoms persist consult doctor.

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Trade name: **WCe20**

(Contd. of page 1)

- **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
CO₂, 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_x)
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.
- **6.3 Methods and material for containment and cleaning up:** Pick up mechanically.
See Section 7 for information on safe handling.
- **6.4 Reference to other sections** 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:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **5.10 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:

7440-33-7 tungsten

WEL (Great Britain)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ as W
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- **Regulatory information** WEL (Great Britain): EH40/2020
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:** The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required.
- **Hand protection** Not required.

(Contd. on page 3)

Product information

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Version number 1

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Trade name: **WCe20**

(Contd. of page 2)

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|--|---|
| - Material of gloves | 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. |
| - Penetration time of glove material | Not applicable |
| - As protection from splashes gloves made of the following materials are suitable: | Not applicable |

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- | | |
|--|------------------------------------|
| - General Information | |
| - Physical state | Solid |
| - Colour: | According to product specification |
| - Odour: | Odourless |
| - Odour threshold: | Not determined. |
| - Melting point/freezing point: | Undetermined. |
| - Boiling point or initial boiling point and boiling range | Undetermined. |
| - Flammability | Not applicable. |
| - Lower and upper explosion limit | |
| - Lower: | Not determined. |
| - Upper: | Not determined. |
| - Flash point: | Not applicable. |
| - Decomposition temperature: | Not determined. |
| - pH | Not applicable. |
| - Viscosity: | |
| - Kinematic viscosity | Not determined.
Not applicable. |
| - Dynamic: | Not determined.
Not applicable. |
| - Solubility | |
| - water: | Insoluble. |
| - Partition coefficient n-octanol/water (log value) | Not determined. |
| - Density and/or relative density | |
| - Density: | Not determined. |
| - Relative density | Not determined. |
| - Vapour density | Not determined. |
| - Particle characteristics | See item 3. |

- 9.2 Other information

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

- Information with regard to physical hazard classes

- | | |
|---|------|
| - Explosives | Void |
| - Flammable gases | Void |
| - Aerosols | Void |
| - Oxidising gases | Void |
| - Gases under pressure | Void |
| - Flammable liquids | Void |
| - Flammable solids | Void |
| - Self-reactive substances and mixtures | Void |
| - 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 |

(Contd. on page 4)

Product information

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Revision: 21.04.2023

Trade name: WCe20

(Contd. of page 3)

- Desensitised explosives	Void
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SECTION 10: Stability and reactivity

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|---|---|
| - 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. |
| - 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: | No further relevant information available. |
| - 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. |
| - 12.6 Endocrine disrupting properties | The product does not contain substances with endocrine disrupting properties. |
| - 12.7 Other adverse effects | |
| - Additional ecological information: | |
| - General notes: | Not hazardous for water. |

SECTION 13: Disposal considerations

- | | |
|--------------------------------|--|
| - 13.1 Waste treatment methods | |
| - Recommendation | Disposal according to official regulations |
| - European waste catalogue | |
| 12 01 13 welding wastes | |
| - Uncleaned packaging: | |
| - Recommendation: | Disposal must be made according to official regulations. |

SECTION 14: Transport information

- | | |
|-------------------------------|------|
| - 14.1 UN number or ID number | |
| - ADR, ADN, IMDG, IATA | Void |

(Contd. on page 5)

EN-GB

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(Contd. of page 4)

- 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:	Not applicable.
- 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.

- Department issuing SDS:	Technical Documentation
- Date of previous version:	21.04.2023
- Abbreviations and acronyms:	ADR: Accord relatif au transport international 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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
- 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.	