

# Product information

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

Printing date 30.07.2024

Version number 1

Revision: 30.07.2024

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

- **1.1 Product identifier**
- **Trade name:** **E3® PRO (Sm9La9Y2)**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**
- **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

SU14 Manufacture of basic metals, including alloys

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

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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.  
Mixture: consisting of the following components.

CAS: 7440-33-7	tungsten	substance with a Community workplace exposure limit	50-100%
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:**

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.  
Seek medical treatment in case of complaints.  
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.

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- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
Protect unharmed eye.
- **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** Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Avoid contact with skin and eyes
- **6.2 Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.  
Prevent from spreading (e.g. by damming-in or oil barriers).
- **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** Store in cool, dry place in tightly closed receptacles.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **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:** Protect from frost.  
Keep container tightly sealed.  
Store in dry conditions.  
Recommended storage temperature: 5-30 °C
- **Storage class:** 13
- **7.3 Specific end use(s)** No further relevant information available.

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## 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 <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> 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 section 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. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

**- Respiratory protection:** Not necessary if room is well-ventilated. Use suitable respiratory protective device in case of insufficient ventilation. Wear suitable respirators during spray applications. Filter A2/P3  
 Respiratory protection - Gas filters and combination filters according to (EN 14387)  
**- Hand protection** Leather gloves



Protective gloves

Only use chemical-protective gloves with CE-labelling of category III. Check protective gloves prior to each use for their proper condition. 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. After use of gloves apply skin-cleaning agents and skin cosmetics.

**- Material of gloves**

Penetration time (min.): < 5  
 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. 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**

Recommended thickness of the material: ≥ 0.1 mm  
 Not applicable  
 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.

**- As protection from splashes gloves made of the following materials are suitable:**

Not applicable  
 Nitrile rubber, NBR

**- Eye/face protection**



Tightly sealed goggles

Protective goggles and facial protection - Classification according to EN 166 protective clothing (EN 13034)

**- Body protection:**

## 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:**

Characteristic

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- Odour threshold:	Not determined.
- Melting point/freezing point:	Undetermined.
- Boiling point or initial boiling point and boiling range	Undetermined.
- Flammability	Not determined.
- 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 applicable.
- Dynamic:	Not applicable.
- Solubility	
- water:	Insoluble.
- Partition coefficient n-octanol/water (log value)	Not determined.
- Density and/or relative density	
- Density at 20 °C:	19.03 g/cm <sup>3</sup>
- Relative density	Not determined.
- Vapour density	Not applicable.
- Particle characteristics	

See section 3.

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

<b>- Information with regard to physical hazard classes</b>	
- 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
- 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.

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- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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## 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** Smaller quantities can be disposed of with household waste.  
Disposal according to official regulations

**- European waste catalogue**

08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09
17 02 03	plastic

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** Void
- **14.2 UN proper shipping name**
- **ADR, 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.

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- |  |                 |
|--|-----------------|
| - 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.

- Department issuing SDS:                             Technical Documentation
- 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
- [www.echa.europa.eu](http://www.echa.europa.eu)
- [www.baua.de](http://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](http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp)
- [www.dguv.de/ifa/gestis/gestis-dnel-liste](http://www.dguv.de/ifa/gestis/gestis-dnel-liste)
- Sources