

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 6 (replaces version 5)

Revision: 13.01.2023

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

1.1 Product identifier

Trade name: **Certanium 34C**

Article number: 86758

1.2 Relevant identified uses of the substance or mixture and uses advised against
FOR PROFESSIONAL AND INDUSTRIAL USE ONLY

Application of the substance / the mixture Metal-working product

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

KENT (United Kingdom) Ltd

Forsyth House

Pitreavie Drive

Pitreavie Business Park

Dunfermline

Fife

KY11 8US

Tel: +44 01383 723344 / 0800 136925 Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm

Fax: +44 1383 620079

SDS@kenteurope.com

1.4 Emergency telephone number:

Tel: +44 01383 723344 During normal office hours - Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

This product is normally not considered hazardous as shipped. Avoid eye contact or inhalation of dust from the product. When this product is used in a welding process, the most important hazards are welding fumes and heat.

The product is not classified, according to the GB CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Additional information:

Safety data sheet available on request.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of the substances listed below with harmless additions.

Dangerous components:

CAS: 7440-22-4 EINECS: 231-131-3	silver	substance with a Community workplace exposure limit	0-10%
CAS: 123-99-9 EINECS: 204-669-1	azelaic acid	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	0-<5%
CAS: 333-18-6 EINECS: 206-369-6	ethylenediammonium dichloride	⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	0-<5%
CAS: 557-66-4 EINECS: 209-182-8	ethylammonium chloride	⚠ Eye Irrit. 2, H319; STOT SE 3, H335	0-<5%

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 6 (replaces version 5)

Revision: 13.01.2023

Trade name: Certanium 34C

(Contd. of page 1)

· **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

Take affected persons into the open air.

Seek immediate medical advice

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation** Supply fresh air.· **After skin contact**

After contact with the molten product, cool rapidly with cold water.

If skin irritation continues, consult a doctor.

· **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.· **After swallowing** Seek immediate medical advice.· **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** CO₂, extinguishing powder or water jet. Fight larger fires with water jet.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Metal oxide fumes

Hydrogen chloride (HCl)

Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained breathing apparatus.

Wear full protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid causing dust.

Put on breathing apparatus.

· **6.2 Environmental precautions:** Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up:

Allow to solidify. Collect mechanically.

Ensure adequate ventilation.

Dispose of 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 information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Avoid contact with the eyes and skin.

· **Information about protection against explosions and fires:** No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage

· **Requirements to be met by storerooms and containers:** Store in cool location.· **Information about storage in one common storage facility:**

Store away from flammable substances.

(Contd. on page 3)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 6 (replaces version 5)

Revision: 13.01.2023

Trade name: Certanium 34C

(Contd. of page 2)

- Do not store together with alkalis (caustic solutions).
- Do not store together with oxidising and acidic materials.
- **Further information about storage conditions:**
- Store in cool, dry conditions in well sealed containers.
- Protect from humidity and keep away from water.
- <25°C
- **Storage class 11**
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

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

7440-22-4 silver

WEL Long-term value: 0.1 mg/m³

· **Regulatory information** WEL: EH40/2020

· **Additional information:**

Overexposure to welding fumes may result in dizziness, nausea or dryness or irritation of nose, throat and eyes. Chronic excess welding fumes above OES or OEL may be hazardous. Prolonged and repeated inhalation may be harmful to respiratory system. The lists that were valid during the compilation 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**
- Keep away from foodstuffs, beverages and food.
- Do not inhale dust / smoke / mist.
- Take off immediately all contaminated clothing
- Wash hands during breaks and at the end of the work.
- Store protective clothing separately.
- Avoid contact with the eyes and skin.
- **Breathing equipment:**
- In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
- Filter P1 (EN 143)
- **Hand protection**
- Welders protective gloves (EN 12477)



Protective gloves.

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

· **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. 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.

· **Eye/face protection**

Welders face shield and coloured absorbing lenses (EN379)



Safety glasses (EN 166)

- **Body protection:** Heat-resistant protective clothing

GB

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 6 (replaces version 5)

Revision: 13.01.2023

Trade name: Certanium 34C

(Contd. of page 3)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

· Physical state	Solid
· Colour:	Grey
· Odour:	Odourless
· Odour threshold:	Not determined.
· Melting point/freezing point:	850-1,100 °C
· Boiling point or initial boiling point and boiling range	Not determined
· Flammability	Not determined.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable
· Decomposition temperature:	Not determined.
· pH	Mixture is non-polar/aprotic.
· Viscosity:	
· Kinematic viscosity	Not applicable.
· dynamic:	Not applicable.
· Solubility	
· Water:	Unsoluble
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not applicable.
· Density and/or relative density	
· Density	Not determined
· Relative density at 20 °C	6-9
· Vapour density	Not applicable.

9.2 Other information

· Appearance:	
· Form:	Solid
· Important information on protection of health and environment, and on safety.	
· Self-flammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.
· Solvent content:	
· Solids content:	100.0 %
· Change in condition	
· Evaporation rate	Not applicable.

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
· Desensitised explosives	Void

GB
(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 6 (replaces version 5)

Revision: 13.01.2023

Trade name: Certanium 34C

(Contd. of page 4)

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**
 Reacts with strong acids and alkali
 Reacts with oxidizing agents
 with polyhalogenated compounds
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Acids
- **10.6 Hazardous decomposition products:**
 Formation of toxic gases is possible during heating or in case of fire.
 Carbon monoxide and carbon dioxide
 Nitrogen oxides (NOx)

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 that are relevant for classification:**

57-13-6 urea		
Oral	LD50	14,500 mg/kg (Rat)
123-56-8 succinimide		
Oral	LD50	14,000 mg/kg (Rat)
333-18-6 ethylenediammonium dichloride		
Oral	LD50	1,620 mg/kg (Mouse)

- **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:**

7440-22-4 silver	
EC50 (48 hr)	0.001 mg/l (Daphnia magna)
NOEC (72 hr)	5 mg/l (Algae) (Glenodinium halli)

- **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:**
 Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 6 (replaces version 5)

Revision: 13.01.2023

Trade name: Certanium 34C

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

(Contd. of page 5)

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Disposal must be made according to official regulations.
- **Uncleaned packagings:**
- **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 |
| · 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 Maritime transport in bulk according to IMO instruments | Not applicable. |
| · Transport/Additional information: | Not dangerous according to the above specifications. |
| · 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**
 - **Technical instructions (air):**
- | Class | Share in % |
|-------|------------|
| III | 97.0 |
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
 - **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.

(Contd. on page 7)

Safety data sheet

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Trade name: Certanium 34C

(Contd. of page 6)

· **Department issuing data specification sheet:** Environment protection department

· **Abbreviations and acronyms:**

ADR: 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

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· **Data compared to the previous version altered.** *

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