Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023 Version number 50 (replaces version 49) Revision: 17.01.2023

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

· 1.1 Product identifier

· **Trade name: CERTANIUM 707SP SUPER GOLD**

· **Article number:** 84270

· 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

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SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· **Classification according to Regulation (EC) No 1272/2008**

health hazard

Carc. 2	H351 Suspected of causing cancer. Route of exposure: Inhalation.
STOT RE 2	H373 May cause damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

Skin Sens. 1	H317 May cause an allergic skin reaction.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

· 2.2 Label elements

· **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms**

GHS07 GHS08

· **Signal word** Warning

· **Hazard-determining components of labelling:**

Titanium dioxide
nickel
trilithium hexafluoroaluminate

· **Hazard statements**

H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer. Route of exposure: Inhalation.

(Contd. on page 2)

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

Printing date 23.01.2023 *Version number 50 (replaces version 49)* *Revision: 17.01.2023*

Trade name: CERTANIUM 707SP SUPER GOLD

(Contd. of page 1)

H373 May cause damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.
H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe fumes.
P280 Wear protective gloves / eye protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**
Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

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

· **Dangerous components:**

CAS: 7440-47-3 EINECS: 231-157-5	Chromium Aquatic Acute 1, H400	10-25%
CAS: 13463-67-7 EINECS: 236-675-5	Titanium dioxide Carc. 2, H351	5-15%
CAS: 7440-02-0 EINECS: 231-111-4	nickel Carc. 2, H351; STOT RE 1, H372; Skin Sens. 1, H317	5-10%
CAS: 1312-76-1 EINECS: 215-199-1	Potassium Silicate Skin Irrit. 2, H315; Eye Irrit. 2, H319	0-10%
CAS: 13821-20-0 EINECS: 237-509-4	trilithium hexafluoroaluminate STOT RE 1, H372; Aquatic Chronic 2, H411; Acute Tox. 4, H302	0-<5%
CAS: 7789-75-5 EINECS: 232-188-7	Calcium fluoride Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	0-<3%
CAS: 7439-96-5 EINECS: 231-105-1	Manganese STOT RE 2, H373	0-<3%
CAS: 7439-98-7 EINECS: 231-107-2	Molybdenum Flam. Sol. 1, H228	0-<3%
CAS: 7440-21-3 EINECS: 231-130-8	Silicon Flam. Sol. 2, H228	0-<3%

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **After inhalation**
Supply fresh air and call for doctor for safety reasons.
In case of unconsciousness bring patient into stable side position for transport.

· **After skin contact**
Instantly remove any clothing soiled by the product.
If skin irritation continues, consult a doctor.
Instantly rinse with water.

· **After eye contact**
Rinse opened eye for several minutes under running water.
Seek immediate medical advice.

· **After swallowing** In case of persistent symptoms 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.

(Contd. on page 3)

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

Printing date 23.01.2023 Version number 50 (replaces version 49) Revision: 17.01.2023

Trade name: CERTANIUM 707SP SUPER GOLD

(Contd. of page 2)

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SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents**
Use fire fighting measures that suit the environment.
CO2, extinguishing powder or water haze. Fight larger fires with water haze or alcohol-resistant foam.
· **For safety reasons unsuitable extinguishing agents** Water with a full 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.
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
· **5.3 Advice for firefighters**
· **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear self-contained breathing apparatus.
Wear full protective suit.
· **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

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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:**
Send for recovery or disposal in suitable containers.
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **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.

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SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
· **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:** Do not store together with acids.
· **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.
Protect from heat and direct sunlight.
· **Storage class** 11
· **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**

· **Components with limit values that require monitoring at the workplace:**	
13463-67-7 Titanium dioxide	
WEL	Long-term value: 10* 4** mg/m³ *total inhalable **respirable
7440-02-0 nickel	
WEL	Long-term value: 0.5 mg/m³ as Ni; Sk; Carc

(Contd. on page 4)

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

Printing date 23.01.2023 Version number 50 (replaces version 49) Revision: 17.01.2023

Trade name: CERTANIUM 707SP SUPER GOLD

(Contd. of page 3)

7439-96-5 Manganese	
WEL	Long-term value: 0.2* 0.05** mg/m³ as Mn *inhalable fraction **respirable fraction
7440-21-3 Silicon	
WEL	Long-term value: 10* 4** mg/m³ *inhalable dust **respirable dust

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

· **PNECs**	
13463-67-7 Titanium dioxide	
PNEC	0.184 mg/l (Aqua (freshwater)) 0.193 mg/l (Aqua (intermittent)) 0.0184 mg/l (Aqua (marine water)) 1,000 mg/kg (Freshwater sediment) 100 mg/kg (Marine water sediment) 100 mg/l (Sewage treatment plant) 100 mg/kg (Soil)

· **Additional information:** 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.
Take off immediately all contaminated clothing
Wash hands during breaks and at the end of the work.
Store protective clothing separately.
Do not inhale dust / smoke / mist.
· **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 P2 (EN 143)
Filter P3 (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)

Tightly sealed safety glasses. (EN 166)

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

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SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**
· **General Information**
· **Physical state** Solid

(Contd. on page 5)

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

Printing date 23.01.2023 Version number 50 (replaces version 49) Revision: 17.01.2023

Trade name: CERTANIUM 707SP SUPER GOLD

(Contd. of page 4)

· **Colour:**	Gold coloured
· **Odour:**	Odourless
· **Odour threshold:**	Not determined.
· **Melting point/freezing point:**	850 - 1100 °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 at 20 °C**	5-8 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not applicable.

· **9.2 Other information**	
· **Appearance:**	
· **Form:**	Solid
· **Important information on protection of health and environment, and on safety.**	
· **Self-inflammability:**	Product is not selfigniting.
· **Explosive properties:**	Product is not explosive.
· **Solvent content:**	
· **Organic solvents:**	NIL VOC
· **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

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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.

(Contd. on page 6)

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

Printing date 23.01.2023 *Version number 50 (replaces version 49)* *Revision: 17.01.2023*

Trade name: CERTANIUM 707SP SUPER GOLD

(Contd. of page 5)

· **10.3 Possibility of hazardous reactions** Reacts with acids
· **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)
Silicon oxides
Hydrogen fluoride

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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.

· **LD/LC50 values that are relevant for classification:**		
7439-89-6 Iron		
Oral	LD50	30,000 mg/kg (Rat)
13463-67-7 Titanium dioxide		
Oral	LD50	>20,000 mg/kg (Rat)
Dermal	LD50	>10,000 mg/kg (rbt)
	ErC 50	61 mg/l (Algae) (EPA 600/9-78-018, 72 hr)
7440-02-0 nickel		
Oral	LD50	>5,000 mg/kg (Rat)
7439-96-5 Manganese		
Oral	LD50	9,000 mg/kg (Rat)
7440-21-3 Silicon		
Oral	LD50	3,160 mg/kg (Rat)

· **Respiratory or skin sensitisation** May cause an allergic skin reaction.
· **Carcinogenicity** Suspected of causing cancer. Route of exposure: Inhalation.
· **STOT-repeated exposure**
May cause damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.
· **11.2 Information on other hazards**

· **Endocrine disrupting properties**
None of the ingredients is listed.

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SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
7439-89-6 Iron	
LC50 (96 hr)	1.29 mg/l (Fish)
13463-67-7 Titanium dioxide	
LC50 (48 hr)	5.5 mg/l (Crustacea)
LC50 (96 hr)	>100 mg/l (Oncorhynchus mykiss) (= OECD 203)
7439-96-5 Manganese	
EC50 (48 hr)	40 mg/l (Crustacea)

· **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**
· **Remark:** Harmful to fish

(Contd. on page 7)

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

Printing date 23.01.2023 *Version number 50 (replaces version 49)* *Revision: 17.01.2023*

Trade name: CERTANIUM 707SP SUPER GOLD

(Contd. of page 6)

· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.
Harmful to aquatic organisms

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SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

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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:**	Not applicable.
· **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

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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 %
II	7.0
III	25.0

· **Water hazard class:** Water hazard class 2 (Self-assessment): 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**
H228 Flammable solid.
H302 Harmful if swallowed.

(Contd. on page 8)

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

Printing date 23.01.2023 *Version number 50 (replaces version 49)* *Revision: 17.01.2023*

Trade name: CERTANIUM 707SP SUPER GOLD

(Contd. of page 7)

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

· **Department issuing data specification sheet:** *Environment protection department*
· **Abbreviations and acronyms:**
RID: (Regulations Concerning the International Transport of Dangerous Goods by Rail)
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)
PNEC: Predicted No-Effect Concentration (UK REACH)
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
Flam. Sol. 2: Flammable solids – Category 2
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
Skin Sens. 1: Skin sensitisation – Category 1
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
· **Data compared to the previous version altered.** *