

SAFETY DATA SHEET

According to Regulation (EC) No. 453/2010

Version 6, Revision Date 03.11.2020

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

1.1 Product identifiers

Product name : Conductive Paint

Brand : Spa Plating

REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Silver based suspension for producing conductive films.

1.3 Details of the supplier of the safety data sheet

Company : Spa Plating Ltd
28 Chaucer Road
Bath, Somerset UK

Telephone : +44 (0)1225 329 463

Fax : +44 (0)1225 329 463

E-mail address : info@goldn.co.uk

1.4 Emergency telephone number

Emergency Phone # : +44 (0)1225 329 463

SECTION 2: Hazards identification


2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 3), H226
Acute toxicity, Inhalation (Category 4), H302
Acute toxicity, Dermal (Category 4), 312
Skin irritation (Category 2), H315
Toxic to aquatic life with long lasting effects

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram 

Signal word : Warning

Hazard statement(s)

H226	Flammable liquids (Category 3)
H302	Acute toxicity, Inhalation (Category 4)
H312	Acute toxicity, Dermal (Category 4), H312
H315	Skin irritation (Category 2), H315
H412	Harmful to aquatic life with long lasting effects (Category 2), H412

Precautionary statement(s)	
P261	Avoid breathing vapours.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	none

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Xylenes		
CAS No.	1330-20-7	10 – 30 %
EC-No.	215-535-7	
Index-No.	601-022-00-9	
Cyclohexanone		
CAS No.	108-94-1	10 – 30 %
EC-No.	203-631-1	
Index-No.	606-010-00-7	
1,2,4-Trimethylbenzene		
CAS No.	95-63-6	10 – 30 %
EC-No.	202-436-9	
Index-No.	601-043-00-3	
Solvent naphtha (petroleum), light arom.		
CAS No.	64742-95-6	10 – 30 %
EC-No.	265-199-0	
Index-No.	649-356-00-4	

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

- 4.3 Indication of any immediate medical attention and special treatment needed**
no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides.

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must

be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup

to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | |
|--|--|
| a) Appearance | Liquid: Metallic silver colour |
| b) Odour | Characteristic |
| c) Odour Threshold | no data available |
| d) pH | no data available |
| e) Melting point/freezing point | -45°C |
| f) Initial boiling point and boiling range | Lowest known value is 140°C (*Xylene). Weighted average: 149.6°C |
| g) Flash point | The lowest known value is CLOSED CUP: 25°C (77°F). (*Xylene) |
| h) Evaporation rate | no data available |

i) Upper/lower	The greatest known LOWER: 1.1% UPPER: 8.1% (*Cyclohexanone) flammability or explosive limits
j) Flammability (solid, gas)	no data available
k) Vapour pressure	The highest known value is 1.3 kPa (@ 20°C) (*Cyclohexanone).
l) Vapour density	4.15 (Air = 1) (Trimethylbenzene). Weighted average: 3.67 (Air = 1)
m) Relative density	1.7 g/ml
n) Water solubility	Not soluble
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	The lowest known value is 420°C (788°F) (*Cyclohexanone)
q) Decomposition temperature	no data available
r) Viscosity	not known
s) Explosive properties	no data available
t) Oxidising properties	no data available

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Oxidising agents

10.6 Hazardous decomposition products

Other decomposition products - no data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

None

SECTION 12: Ecological information**12.1 Toxicity**

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

no data available

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number			
ADR/RID: 1263	IMDG: 1263	IATA: 1263	
14.2 UN proper shipping name			
ADR/RID: Paint			
IMDG: Paint			
IATA: Paint			
14.3 Transport hazard class(es)			
ADR/RID: -	IMDG: 3	IATA: 3	
14.4 Packaging group			
ADR/RID: -	IMDG: III	IATA: III	
14.5 Environmental hazards			
ADR/RID: no	IMDG Marine pollutant: no	IATA: no	
14.6 Special precautions for user			
no data available			

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
no data available
- 15.2 Chemical Safety Assessment**
For this product a chemical safety assessment was not carried out.

SECTION 16: Other information**Further information**

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and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Spa Plating Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.