

## Safety Data Sheet

### Reusable Silver Conductive Ink AgFe 1.3

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#### **Section 1: Identification of the substance/mixture and of the company**

##### **1.1 Product Identifier**

Product name: Water-based Reusable Silver Conductive Printing Ink AgFe 1.3

Product number: AgFe 1.3

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

Identified uses: Printing ink paste, for screen printing or dispensing

##### **1.3 Details of the supplier of the safety data sheet**

Supplier: AilArian ltd  
25 Iorwerth Street  
Manselton  
Swansea  
SA5 9NP

##### **1.4 Emergency contact details**

Emergency number: +447539277355

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#### **Section 2: Hazards Identification**

##### **2.1 Classification of the substance or mixture**

GHG Classification: Aquatic Chronic 1 – H410

Hazard Summary: Spilled material maybe slippery

##### **2.2 Label Elements**

Pictogram:



Signal word: Warning

Hazard statement: Very toxic to aquatic life with lasting effects

Precautionary statements: Avoid release to the environment

Collect spillage


Dispose of this material and its container to hazardous or special waste collection

### **2.3 Other Hazards**

None known

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## **Section 3: Composition/Information on ingredients**

<b>Ingredient</b>	<b>%W/W</b>	<b>Classification</b>	<b>Hazard Symbol</b>
Silver coated ferrite particles	50-90	Aquatic Chronic 1 – H410	
SWINK resin base	10-40	Not classified	

Separate MSDS sheets can be provided for component materials

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## **Section 4: First Aid Measures**

### **4.1 Description of first aid measures**

Eye Contact: Irrigate with eyewash solution or clean water, holding eyelids apart, for at least 15 minutes. If symptoms persist obtain medical attention.

Skin Contact: Wash affected skin with plenty of water. If symptoms occur obtain medical attention.

Inhalation: In case of accidental inhalation: remove casualty to fresh air and keep at rest. If symptoms occur obtain medical attention.

Ingestion: If swallowed, do not induce vomiting; seek medical advice immediately and show SDS or label.

### **4.2 Most important symptoms and effect, both acute and delayed**

Sensitisation: this product contains materials which may trigger an allergic reaction upon skin contact. Allergic reactions can take place within 12-72 hours of exposure.

### **4.3 Indication of any immediate medical attention or special treatment needed**

No specific recommendations. If in doubt seek medical attention.

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## **Section 5: Firefighting Measures**

### **5.1 Extinguishing media**

Suitable extinguishing media: As appropriate for the surrounding fire

### **5.2 Special hazards arising from the substance or mixture**

Product is not classified as flammable

### **5.3 Advice to firefighters**

Control run-off water by containing and keeping out of sewers and water courses. If risk of water pollution occurs notify the appropriate authorities.

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## **Section 6: Accidental Release Measures**

### **6.1 Personal Protective Equipment**

Wear personal protective equipment as described in section 8 of this datasheet

### **6.2 Environmental precautions**

Prevent discharge into drains or watercourses

### **6.3 Methods and materials for containment and cleaning up**

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in containers for appropriate disposal.

### **6.4 Reference to other sections**

See section 8 “Exposure controls and personal protective equipment”

See section 13 “Disposal Considerations”

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## **Section 7: Handling and Storage**

### **7.1 Precautions for safe handling**

Avoid spilling. Avoid contact with skin or eyes.

### **7.2 Conditions for safe storage**

Store in a cool dry location. Once open; carefully reseal and keep upright to prevent leakage.

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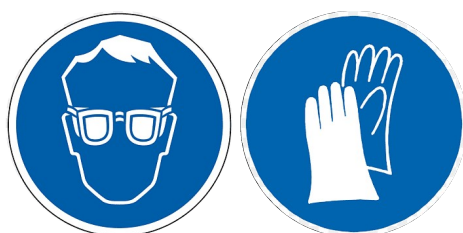
## Section 8: Exposure Control/Personal Protection

### **8.1 Control Parameters**

None known

### **8.2 Exposure Controls**

Protective Equipment:



Engineering Controls:	Handle in a well-ventilated area
Eye/face protection:	Wear chemical splash goggles
Hand protection:	Appropriate chemical resistant gloves suitable
Other skin/body protection:	Appropriate clothing to prevent skin contact
Respiratory protection:	no specific requirements

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## Section 9: Physical and Chemical Properties

### **9.1 Information on basic physical and chemical properties**

Appearance:	Light grey liquid
Odour:	Odourless
Odour Threshold:	Not applicable
pH (value):	Not applicable
Melting point:	Not applicable
Freezing point:	Not applicable
Boiling point:	Undetermined > 100C
Evaporation Rate:	Not known
Flash point:	Not flammable
Flammability:	Not flammable
Explosive properties:	Not applicable

Oxidising properties:	Not applicable
Density:	Not known
Solubility:	Miscible with water
Viscosity:	Not known

## **9.2 Other Information**

None specified

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## **Section 10: Stability and Reactivity**

### **10.1 Reactivity**

Avoid contact with Acetylene, Acetylene compounds, ammonia, aziridine, bromine azide, 3-bromopropyne, carboxylic acids, chlorine trifluoride, ethylene oxide ethyl hydroperoxide, ethyleneimine, hydrogen peroxide, iodoform, nitric acid, ozonides, oxalic acid, peroxomonosulfur.

### **10.2 Chemical stability**

Stable under normal conditions

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## **Section 11: Toxicological Information**

### **11.1 Information on toxicological effects**

Acute toxicity – Ingestion:	Harmful by ingestion
Acute toxicity – Inhalation:	May be harmful if inhaled. Inhalation may cause irritation to the mucous membrane
Acute toxicity – Skin contact:	Contains silver which can cause argyria-grey pigmentation of the eyes, skin and mucous membranes with prolonged and repeated exposure.
Skin corrosion/irritation:	May cause irritation
Carcinogenicity:	None of the components are listed or known or suspected carcinogens
Reproductive toxicity:	No data available, no evidence of reproductive effects.
Specific target organ toxicity:	Single exposure – no data available. Repeated exposure – no data available.

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## **Section 12: Ecological Information**

### **12.1 Toxicity**

Contains silver which is toxic to terrestrial and aquatic organisms. In fish and amphibian toxicity tests with 22 metals silver was the most toxic tested element as judged by acute LC50 values.

### **12.2 Persistence and degradability**

Sorption and precipitation processes are effective in reducing the concentration of silver in natural waters and results in higher concentrations in bed sediments than in overlying waters. Silver does not readily bioconcentrate in animals. Almost all of the total silver intake is usually excreted rapidly; less than 1% of the total silver intake is absorbed and retained, primarily as insoluble silver salts.

### **12.3 Bioaccumulative potential**

No data available

### **12.4 Mobility in soil**

No data available

### **12.5 Results of PBT and vPvB assessment**

Not classified as PBT or vPvB

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## **Section 13: Disposal Considerations**

### **13.1 Waste treatment methods**

Silver is a RCRA hazardous waste. Disposal should be in accordance with local or national legislation.

### **13.2 Recycling**

These materials have been designed to facilitate recycling and separation of the conductive materials. This significantly reduces the toxicity of waste material. Waste material can be returned to the supplier for separation.

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## **Section 14: Transport Information**

**14.1 UN number** Not available

**14.2 UN shipping name** Not available

**14.3 Transport hazard class** Not available

<b><u>14.4 Packing group</u></b>	Not available
<b><u>14.5 Environmental hazard</u></b>	Environmentally hazardous substance
<b><u>14.6 Special precautions</u></b>	Not classified as hazardous under DOT or US transport recommendations.

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## **Section 15: Regulatory Information**

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
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### **15.2 Chemical risk assessment**

No chemical risk assessment has been undertaken

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## **Section 16: Other Information**

Last updated:	31/10/2024
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Available documents:	SDS for component materials