

(In compliance with EC/1907/2006 Article 31 and Annex II)

Revision Date: 06/08/2013

Revision Number: 0

Material/Trade Name: ARGYROTYPE SENSITISER

1 – Identification of Substance/Mixture and of the Company/Undertaking

Material/Trade Name : Argyrotype Sensitiser
Material type : Photographic process reagent
Company : Jay House Ltd
Address : 6B Park Lane Industrial Estate
 Park Lane
 Corsham
 SN13 9LG
Telephone : 01249 714555
Fax : 01249 714999
Internet : info@fotospeed.com

2 – Hazards Identification**Classification of the substance or mixture***According to Regulation (EC) No.1272/2008*

Eye Irritant (Category 2)	H319	Causes serious eye irritation
Specific Target Organ Toxicity (Category 3)	H335	May cause respiratory irritation
Skin Irritant (Category 2)	H315	Causes skin irritation

According to European Directive 67/548/EEC as amended

Xi; Irritant
 R36/37/38 Irritating to eyes, respiratory system and skin

3 – Composition/Information on Ingredients

CAS No.	EC No.	Index No.	Classification	Concentration
Ferric Ammonium Citrate				
1185-57-5	214-686-6	[-]	Eye Irrit. 2, STOT SE 3, Skin Irrit. 2 H319, H315, H335 Xi; R36/37/38	<25%
Silver Sulfamate				
14325-99-6	[-]	[-]	Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2 H302, H319, H315 Xn; R22 Xi; R36/38	<15%

4 - First-aid Measures**Inhalation:**

Remove to fresh air and rest. If recovery is not rapid call for prompt medical attention. Show this safety data sheet to medical personnel.

Eyes

Irrigate with water for at least 15 minutes. Take care not to wash chemical from one eye to another. Seek immediate medical attention.

Skin

Remove contaminated clothing. Wash with soap/cleanser and rinse with plenty of water. Seek immediate medical attention.

Ingestion

Do not induce vomiting. Give plenty of water to drink. Seek immediate medical attention.

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5 - Fire-fighting Measures

Suitable Extinguishers

Use media such as alcohol/aqueous foam, dry chemical, or carbon dioxide or water spray/fog which are suitable and appropriate for any surrounding fire.

Unsuitable Extinguishers

None.

Hazardous Decomposition

Thermal decomposition products may include carbon dioxide, carbon monoxide, nitrogen oxides, and ammonia and sulphur oxides.

Special Procedures/information for firefighters

Do not breathe decomposition products and fumes. Use approved self-contained breathing apparatus. Wear fire retardant clothing. Use water spray to cool containers. Prevent runoff from fire control from entering waterways. Large fires should only be dealt with by trained personnel.

6 - Accidental Release Measures

Personal Protection and Precautions

Use suitable personal protective equipment (refer to Section 8 for details). Avoid breathing vapours. Ensure adequate ventilation.

Environmental Precautions

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

Containment, cleaning up and Disposal Considerations

Absorb in inert material such as sand or non-combustible absorbent granules

Scoop up and place in plastic container to await transfer

Refer to Section 13 for further information regarding disposal.

7 - Handling and Storage

Handling

Avoid inhalation of vapour or mist.

Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8 - Exposure Controls/Personal Protection

Occupational Exposure Limit: 1 mg/m³ 8hrTWA WEL Ammonium iron (III) Citrate
0.01mg/m³ 8hrTWA WEL Silver Compounds

Respiratory Protection

Use in well ventilated areas. Use mechanical ventilation if possible.

Hand Protection

Wear butyl, PVC or nitrile gloves to Standard EN 374. (Breakthrough time for total immersion in excess of 8 hours).

Eye Protection

Wear suitable eye protection to Standard BS EN 166.

Skin Protection

Wear suitable overalls or apron and change if contaminated. After contact with skin wash off immediately. Wash hands before breaks and immediately after using the product.

9 - Physical & Chemical Properties

Appearance: Liquid

Odour: None

pH: 4

Boiling point/range: >100°C

Melting point/range: n/e

Flash point: n/e

Flammability: NON FLAMMABLE

Auto flammability: n/e

Explosive properties: n/e

Oxidising properties: n/e

Vapour pressure: n/e

Relative density: n/e

Solubility: Fully miscible in water

Partition Coefficient: n/e

Vapour Density: n/e

Viscosity: As water

Evaporation rate: n/e

(n/e = not established)

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10 - Stability and Reactivity

Chemical Stability

Stable at normal temperatures and under recommended storage conditions.

Conditions to Avoid

Extreme temperature and direct sunlight.

Materials to Avoid

Strong oxidising agents and bases.

Hazardous Decomposition Products

No hazardous decomposition products when stored and handled correctly.

11 - Toxicological Information

Acute toxicity

Non-toxic by all routes

Skin corrosion/irritation

Causes skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No components 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.

Potential health effects**Inhalation** Causes respiratory tract irritation**Ingestion** May be harmful if ingested in significant quantities**Skin** Causes skin irritation. Prolonged exposure may cause argyria a bluish discolouration of the skin**Eyes** Causes serious eye irritation**Signs and Symptoms of Exposure**

Overdose of iron compounds may have a corrosive effect on the gastrointestinal mucosa and be followed by necrosis, perforation, and stricture formation. Several hours may elapse before symptoms that can include epigastric pain, diarrhoea, vomiting, nausea, and hematemesis occur. After apparent recovery a person may experience metabolic acidosis, convulsions, and coma hours or days later. Further complications may develop leading to acute liver necrosis that can result in death due to hepatic coma. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12 - Ecological Information

Toxicity

7d LC0 (Fundulus heteroclitus) 200mg/l

Persistence and degradability

No data available

Mobility in soil

No data available.

PBT and vPvB assessment

No data available.

Bio accumulative potential

No data available

Other adverse effects

No data available

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13 -Disposal Considerations

Product

Material is classified as hazardous waste under the Hazardous Waste Regulations 2005 (as amended). Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14 -Transport Information

ADR/RID

Not classified as hazardous for transport

IMDG

Not classified as hazardous for transport

IATA

Not classified as hazardous for transport

15 - Regulatory Information

Label Elements

Pictogram



Signal Word Warning

Hazard Statements

H319	Causes serious eye irritation
H315	Causes skin irritation
H335	May cause respiratory irritation

Precautionary Statements

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water

Other Regulations

Health & Safety at Work etc Act 1974

Control of Substances Hazardous to Health Regulations 2002 (as amended)

Chemicals (Hazard Information and Packaging for Supply) Regulations 2009

Classification, Labelling and Packaging of Substances and Mixtures Regulations 2008 (as amended)

EH40/2005 Workplace Exposure Limits (as amended)

Environmental Protection Act 1990

Hazardous Waste Regulations 2005 (as amended)

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16 - Other Information

Text of H-code(s) and R-phrase(s) mentioned in Section 3

H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H302	Harmful if swallowed
R22	Harmful if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin

Recommended restrictions on use

Use in accordance with manufacturer's technical instructions.

Revision History

First Issue

Further Information

The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for people working with or handling these products. This information is believed to be reliable and updated at Revision Date, and represents the best information currently available and known by Jay House Ltd. (Jay House). However, Jay House makes no guarantee or warranty, express or implied, with respect to such information and we assume no liability resulting from its use. The information related herein is based on proper handling and anticipated uses and is for the material without chemical additions or alterations. Users should make their own investigations to determine the suitability of the information for their particular purposes. It is the responsibility of the user to undertake a suitable risk assessment/COSHH assessment prior to using this material.