Jay House Ltd.

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II
Version 0.1 Revision Date 03/02/2017

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

1.1 Product identifiers

Product name : ARGYROTYPE SENSITISER

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

Identified uses : Photographic process reagent

Used advised against : None identified

1.3 Details of the supplier of the safety data sheet

Company : Jay House Ltd
6B Park Lane Industrial Estate
Park Lane
Corsham
SN13 9LG
United Kingdom

Telephone : 01249 714555
E-mail address : info@fotospeed.com

1.4 Emergency telephone number

Emergency Phone : 01249 714555 (only available during office hours)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Irritant (Category 2) H315
Eye effects (Category 2) H319
Specific Target Organ Toxicity Single Exposure (Category) H335

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram

Signal Word Warning

Hazard statement(s)
H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation

Precautionary statement(s)
P280: Wear protective gloves/protective clothing/eye protection/face protection
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302+352: IF ON SKIN: Wash with plenty of water
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P314: Get medical advice/attention if you feel unwell.
P403+404+233: Store locked up, in a well ventilated place. Keep container tightly closed.

Supplemental Hazard statement(s)
None

2.3 Other hazards

This product is not identified as a BPT vPvB substance.
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>EC No.</th>
<th>Index No.</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1185-57-5</td>
<td>214-686-6</td>
<td>n/a</td>
<td>Skin Irrit. 2; H315, Eye effects 2; H319, STOT SE 3; H335</td>
<td>&lt; 25%</td>
</tr>
<tr>
<td>14325-99-6</td>
<td>n/a</td>
<td>n/a</td>
<td>Acute Tox. 4; H302, Skin Irrit. 2; H315, Eye effects 2; H319</td>
<td>&lt; 15%</td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled
Unlikely to occur during intended use. If vapour or mists are breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Remove contaminated clothing. Wash off skin with soap and water. If irritation persists, seek further medical attention.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes. Take care not to wash the chemical from one eye to the other. If irritation persists, seek further medical attention.

If swallowed
Never give anything by mouth to an unconscious person. If person is conscious, rinse mouth with water and give plenty of water to drink. Seek further medical attention if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed
When properly handled, the product is not dangerous for human health.

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 fog, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media
None.

5.2 Special hazards arising from the substance or mixture
Highly dependent on combustion conditions. May produce decomposition fumes and combustion products if involved in a fire.

5.3 Advice 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. Use water fog to disperse vapours and leaks that have not ignited. Prevent runoff from fire control from entering waterways. Large fires should only be dealt with by trained personnel.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use suitable personal protective equipment (refer to Section 8 for details). Avoid breathing vapours or mists. Ensure adequate ventilation.

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

6.3 Methods and materials for containment and cleaning up
Absorb in inert material such as sand or non-combustible granules. Scoop up and place in a plastic container and dispose of in a manner consistent with applicable regulations.

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.

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)
No data available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with occupational exposure limits

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Reference period</th>
<th>Exposure Limit</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium iron(III) citrate (Iron salts as Fe)</td>
<td>1185-57-5</td>
<td>8hr TWA 15min STEL</td>
<td>1 mg/m³ 2 mg/m³</td>
<td>EH40 WEL</td>
</tr>
<tr>
<td>Silver sulfamate (soluble compounds as Ag)</td>
<td>14325-99-6</td>
<td>8hr TWA</td>
<td>0.01 mg/m³</td>
<td>EH40 WEL</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Appropriate engineering controls
Use in well ventilated areas. Use mechanical ventilation in poorly ventilated areas.

Personal protective equipment

Eye/face Protection
Use equipment for eye protection tested and approved under appropriate standards such as EN 166.

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 good 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. Recommended glove types include Nitrile, PVC and Butyl gloves.

Body Protection
Wear suitable overalls or apron and change if contaminated.

Respiratory Protection
Where risk assessment in accordance with the hierarchy of controls established within the Chemical Agents Directive shows a requirement for respirators as a means of control, use a particulate filter type P.

Environmental exposure controls
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance  
   Form: liquid

b) Odour  
   None

c) Odour Threshold  
   No data available

d) pH  
   4

e) Melting point/freezing point  
   No data available

f) Initial boiling point  
   >100°C

g) Flash point  
   No data available

h) Evaporation rate  
   No data available

i) Flammability (liquid)  
   Non Flammable

j) Upper/lower flammability or explosive limits  
   No data available

k) Vapour pressure  
   7.0mmHg @ 38°C

l) Vapour density  
   No data available

m) Relative density  
   No data available

n) Water solubility  
   Fully miscible in water

o) Partition coefficient (n-octanol/water)  
   No data available

p) Auto-ignition temperature  
   No data available

q) Decomposition temperature  
   No data available

r) Viscosity  
   No data available

s) Explosive properties  
   No

t) Oxidizing properties  
   No

9.2 Other safety information

No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available on mixture.

10.2 Chemical stability

Expected to be stable at normal temperatures and under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

High temperature (>50°C), sources of ignition & direct sunlight.

10.5 Incompatible materials

Strong oxidising agents and bases.

10.6 Hazardous decomposition products

No hazardous decomposition products when stored and handled correctly.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD₅₀ (oral)/LD₅₀ (dermal)/LC₅₀ (inhalation): No acute lethal effects.

Skin corrosion/irritation

No data available on mixture. Expected to cause skin irritation.

Serious eye damage/eye irritation

No data available on mixture. Expected to cause serious eye irritation.

Respiratory or skin sensitisation

No known sensitisation potential.

Germ cell mutagenicity

No known mutagenic potential.

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.
SECTION 11: TOXICOLOGICAL INFORMATION

Reproductive toxicity
No known toxic to reproduction potential.

Specific target organ toxicity - single exposure
No data available on mixture. Inhalation of significant vapours or mists may cause transient respiratory irritation.

Specific target organ toxicity - repeated exposure
No data available.

Aspiration hazard
No data available on mixture. Not expected to pose an aspiration hazard.

Potential health effects

<p>| | |</p>
<table>
<thead>
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</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Excessive inhalation of vapours, aerosols or mists may cause transient respiratory tract irritation.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May be harmful if ingested in significant quantities.</td>
</tr>
<tr>
<td>Skin</td>
<td>May cause skin irritation</td>
</tr>
<tr>
<td>Eyes</td>
<td>May cause serious eye irritation</td>
</tr>
</tbody>
</table>

Signs and Symptoms of Exposure
Material may cause irritation to the respiratory tract, eyes and skin. Symptoms may include inflammation of the mucous membranes and upper respiratory tract, coughing, wheezing, shortness of breath. To the best of our knowledge, the chemical, physical, and toxicological properties of this mixture have not been thoroughly investigated.

Additional Information
Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
Not expected to be harmful to aquatic life.

12.2 Persistence and degradability
No data available.

12.3 Bioaccumulative potential
No data available. Not expected to bioaccumulate.

12.4 Mobility in soil
No data available.

12.5 Results of PBT and vPvB assessment
No data available. Will not meet PBT or vPvB criteria.

12.6 Other adverse effects
No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

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<tbody>
<tr>
<td>ADR/RID:</td>
<td>- not applicable</td>
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<tr>
<td>IMDG:</td>
<td>- not applicable</td>
</tr>
<tr>
<td>IATA:</td>
<td>- not applicable</td>
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</table>

14.2 UN proper shipping name

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<tbody>
<tr>
<td>ADR/RID:</td>
<td>Not dangerous goods</td>
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<td>IMDG:</td>
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<tr>
<td>IATA:</td>
<td>Not dangerous goods</td>
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14.3 Transport hazard class(es)

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<tr>
<td>IMDG:</td>
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<tr>
<td>IATA:</td>
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</table>

14.4 Packaging group

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<tbody>
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<tr>
<td>IMDG:</td>
<td>- not applicable</td>
</tr>
<tr>
<td>IATA:</td>
<td>- not applicable</td>
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14.5 Environmental hazards

<p>| | |</p>
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<tbody>
<tr>
<td>ADR/RID:</td>
<td>no</td>
</tr>
<tr>
<td>IMDG Marine Pollutant:</td>
<td>no</td>
</tr>
<tr>
<td>IATA:</td>
<td>no</td>
</tr>
</tbody>
</table>

14.6 Special precautions for user
No data available
**SECTION 15: REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

- 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)

### 15.2 Chemical Safety Assessment

No data available.

**SECTION 16: OTHER INFORMATION**

**Further information**

Text of H-statements mentioned in Section 3

- H302  Harmful if swallowed
- H315  Causes skin irritation
- H319  Causes serious irritation
- H335  May cause respiratory irritation

**Recommended restrictions on use**

Use in accordance with manufacturer’s technical instructions.

**Revision history**

Amendment to the original SDS dated 06/08/2013 to align SDS with requirements of alterations to safety data sheet layout in accordance with changes to EC1907/2006 (REACH) amendments and removal of references to SI:2009/716 (CHIP).

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.