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1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Identity: Argyrotype Sensitizer

Producer / Distributor: Jay House Ltd, Unit 6b, Park Lane Ind. Estate,

Corsham, Wiltshire SN13 9LG, UK.

Tel: +44 (0)1249 714555 email: tech@fotospeed.com

2. COMPOSITION / INGREDIENT INFORMATION

This is an aqueous solution. The main ingredients are:

Chemical Name and %w/w

Symbol letter R-Phrases S-Phrases EINEC No CAS No

FERRIC AMMONIUM CITRATE <25%

- - 214-686-6 01185-57-5

SILVER SULPHAMATE <15%

Xn R22-36/38 S2-26-28

3. HAZARD IDENTIFICATION

EC classification:

See paragraph 15

Most important hazards:

4. FIRST AID MEASURES

Inhalation: Move the victim to fresh air. Put person in half sitting position and let rest. In extreme cases seek medical advice.

Skin contact: Flush with plenty of water. Remove contaminated clothing. Wash before re-use

Eye contact: Rinse eyes thoroughly with water until irritation stops. In all cases seek medical advice.

Ingestion: Rinse mouth with plenty of water. Give victim considerable amounts of water to drink, do not give anything to drink to an unconscious person. In extreme cases seek medical advice.

Other:

Advice to physician:

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Only use extinguishing media which are compatible with the surrounding materials.

Water, waterspray, Carbon dioxide, dry powder, foam, sand.

Unsuitable extinguishing media : All extinguishing media are allowed.

Special exposure hazards: When product is involved in a fire, toxic fumes and smoke may be generated. Do not breathe these fumes

Hazardous decomposition/combustion products: Thermal Decomposition products may include carbon dioxide, carbon monoxide, nitrogen oxides, ammonia and sulphur oxides.

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Protective equipment: Use approved positive pressure self-contained breathing apparatus when product is involved in a fire.

Further instructions: Contaminated extinguishing water should be disposed of in a manner approved by the EEC, national and local regulatory agencies.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear personal protective clothing. (See paragraph 8). When vapours, aerosols or mists are formed, wear suitable respiratory protection. Environmental precautions: In case of an accident, avoid release of product into the environment. Prevent product getting into sewerage systems or public waterways. Try to collect as much as possible in an approved container for later disposal Methods for cleaning up: Action may only be taken when fully protected. Contain the

Methods for cleaning up: Action may only be taken when fully protected. Contain the area of spillage. Stop the source of leak. Large amounts should be pumped into a container. Small amounts can be collected with absorbing materials. Small remaining effovers may be washed away with large amounts of water

7. HANDLING AND STORAGE

Handling: Working areas and methods should be organised in such a way that direct contact is avoided. Wear protective clothing. Emergency wash and eye rinse facilities should be accessible. When handling chemicals, do not eat, drink or smoke.

Fire and explosion prevention: This preparation contains a lot of water and does not show any flammable or explosive properties. No special fire and explosion prevention procedures are necessary.

Storage requirements: Store in a dry cool, well ventilated place away from all sources or ignition and heating. Keep out of direct sunlight. Product will darkenwhen exposed to light. Keep the package closed if not in use

Other information: Always store in the original container. Do not use the empty contaminated container for any other purposes

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Ensure good ventilation and local exhaustion of the working area.

Exposure limits: Both Iron and silver compounds are asigned 8hr TWA exposure limits (as a metal) Iron = 1mg/m3 and silver 0.01mg/m3. These risk should be observed if an aerosol is created.

Personal protection:

Inhalation: Normally a local ventilation is sufficient to keep airborne concentration of chemicals at a low level. No special breathing protection is necessary

Skin contact: Wear impervious gloves.

Eye contact: Wear close fitting safety goggles.

Ingestion: When handling chemicals do not eat, drink or smoke.

Other information: Always follow the mixing instructions strictly when water or other solutions have to be added to the preparation. Avoid breathing mist or vapour. Avoid contact with eyes and skin. Handle with care.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: LiquidColour: Green/BrownOdour: Odourless

:> 100 deg C Boiling point/range Melting point/range : Not relevant Flash point : Not relevant Flammability : Not relevant **Autoignition temperature** : Not relevant **Explosive limits lower** : Not relevant Oxidising properties : Not determined Vapour pressure (20deg C) : Not determined Density (20deg C) : Not determined Solubility in water (25deg C) : Completely Solubility in other solvents (25deg C) : Not determined

pH value (25deg C) : 4

pH solution in water : Not determined Partition coefficient n-octanol/water : Not determined Viscosity : As water

Other information : -

10. STABILITY AND REACTIVITY

Stability: The product is stable under normal storage conditions. Darkens when exposed

to light. Will not polymerise

Conditions to avoid: The preparation is a slightly acid solution

Materials to avoid : No data

Hazardous decomposition products Only when the product is involved in a fire, or when it is handled incorrectly, is there a possibility that decomposition products will be

generated. (See paragraph 5)

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Different routes of exposure, health warnings

Inhalation: Avoid breathing mist, vapour or aerosols. Ventilate as required to keep

concentrations low.

Skin contact: Causes skin irritation Eye contact: Causes eye irritation Ingestion: Harmful by ingestion,

Other information: Prolongned exposure may cause argyria a bluish discolouration of

the skin

Experience with humans:

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12. ECOLOGICAL INFORMATION

Information about elimination

Information about environmental compartments:

Ecotoxicity:

Other information: No adverse environmental effects forseen

13. DISPOSAL CONSIDERATIONS

Product or contaminated product Dispose of leftovers, waste or contaminated products in accordance with local and national regulations.

Contaminated package: Contaminated package should be disposed of in accordance with local and national regulations.

Other information: We recommend the separation of any waste resulting from this product. It can be dangerous when different photographic products are mixed together

14. TRANSPORT INFORMATION

UN No.

Description: NON HAZARDOUS LIQUID

Containing:

ADR/RID Class: Item: TREMCARD:

IMDG/ADNR Class : Page : EmS :

Pack.gr: MFAG :

ICAO/IATA Class : Pass< : Instr. :

Pack.gr: Cargo<: Instr.

15. REGULATORY INFORMATION

Chemical identity: Warning sign EC:

Symbol(s):

R(isk) phrase(s):

S(afety) phrase(s) : S2 Keep out of reach of children.

S24/25 Avoid contact with skin & eyes

Exposure limits:
Other information:

16. OTHER INFORMATION

The above mentioned information corresponds to our present knowledge and therefore does not guarantee certain properties. The safety data sheet serves as a description of the product in regards to necessary safety measures. Recipients of our product must take responsibility for observing existing laws and regulations.