

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY**

**Supplier:** MacDermid Autotype Limited Telephone: 01235 771111  
Grove Road, Wantage, Emergency telephone: 01235 770063  
Oxon OX12 7BZ, England

**Product Name:** **INDIRECT FILMS: FIVESTAR/GREENSTAR**

**Product Description:** Pigmented, light sensitive gelatine coating on Polyester film.

**2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS**

NAMES	CONCENTRATION	SYMBOL	R/S-PHRASES	REGISTRATION NOS
Ferric Ammonium Oxalate	<5%	Xn	R21/22 S24/S25	CAS NR: 13268-42-3 EC No: 220-952-2

**3. HAZARD IDENTIFICATION**

None in normal use.

**4. FIRST AID MEASURES****Inhalation:**

Not applicable.

**Ingestion:**

Get medical attention.

**Eye Contact:**

Not applicable.

**Skin Contact:**

Not applicable.

**Further Medical Treatment:**

Not applicable.

**5. FIRE FIGHTING MEASURES**

EXTINGUISHER MEDIA      Suitable:      Water, Foam.      Not Suitable:      Carbon Dioxide

**Exposure Hazards:**

None.

**Protective Equipment:**

None, will only burn with extreme difficulty.

**6. ACCIDENTAL RELEASE MEASURES****Personal Precautions:**

No special precautions.

**Environmental Precautions:**

No special precautions.

**Methods for Cleaning:**

Not applicable.

**7. HANDLING AND STORAGE**

Store in cool, dry conditions.

**8. EXPOSURE CONTROLS/PERSONNEL PROTECTION****Exposure Controls:**

None.

**Respiratory Equipment:**

Not required.

**Hand Protection:**

Nylon Gloves.

**Eye Protection:**

Not required.

**Other Protection:**

Not required.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State:	Film.	Colour:	Red.
Odour:	None.	pH:	N/A
Boiling Point:	N/A	Melting Point	N/A
Flash Point:	N/A	Flammability:	None.
Autoflammability:	N/A	Explosive Limit:	N/A
Oxidising Properties:	None.	Vapour Pressure:	N/A
Relative Density:	@ 20°C 1.3g/cm <sup>3</sup> .	Solubility in Water:	Coating is soluble.
Viscosity:	N/A		

**10. STABILITY AND REACTIVITY**

**Stability:** Stable.

**Conditions to Avoid:**

Heat and light (for product function).

**Materials to Avoid:**

None.

**Hazardous Decomposition Products:**

None.

**11. TOXICOLOGICAL INFORMATION****Inhalation:**

No recorded incidents.

LC50=N/A.

**Ingestion:**

Oxalate content may be harmful.

LD50=N/A

**Skin Contact:**

Not applicable.

**Eye Contact:**

Not applicable.

**Long Term Exposure:**

No recorded incidents.

**12. ECOLOGICAL INFORMATION**

This product is a water dispersible coating on polyester film. Polyester is recyclable as clean scrap polyester film when separated from the coating. A local processor should be contacted. The coating consists of principally gelatine plasticised with a water soluble humectant. It also contains a soluble iron salt and surfactant with insoluble pigments and silica. The coating does not contain any materials regarded as ecotoxic or which are EC Black or Grey listed. Tests have shown no inhibitions of activated sludge at typical effluent concentrations and the washings from the coating may be regarded as drain safe and biodegradable.

**13. DISPOSAL CONSIDERATIONS**

Normal solid waste, official disposal.

**14. TRANSPORTATION INFORMATION**

This product is not hazardous for shipment.

**15. REGULATORY INFORMATION**

**Classification:**

**Contains:**

**R-Phrases:**

**S-Phrases:**

**16. OTHER INFORMATION****Read the instructions carefully before using**

N/A - Not Applicable

The information and recommendations contained in the Company's literature or elsewhere are based on knowledge at the time of printing and are believed to be accurate. Whilst such details are printed in good faith, they are intended to be a guide only and shall not bind the Company. Due to constant development, customers are urged to obtain up-to-date technical information from representatives of the Company and not to rely exclusively on printed material. Customers are reminded of the importance of obtaining and complying with instructions for the handling and use of chemicals and materials supplied as the Company cannot accept responsibility for any loss or injury caused through non-compliance.

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