

SAFETY DATA SHEET

PRODUCT NAME: ITW IMAGEDATA DYE DIFFUSION THERMAL TRANSFER PRINTING MEDIA

1. IDENTIFICATION

This product is considered an article under the REACH regulation and thus a Safety Data Sheet (SDS) is not required. This SDS is provided as a convenience to the user relative to materials which are integral to the article.

Colour ribbon for Dye Diffusion Thermal Transfer (D2T2) printing.

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2. HAZARDS IDENTIFICATION

The hazards associated with this product are those of the PET base film.

Form : film
Colour : multicoloured
Odour : odourless
Use : printing

Unlikely to cause harmful effects under normal conditions of handling and use.

3. COMPOSITION INFORMATION

The colour ribbon is polyethylene terephthalate (PET) with thin layers of specialized coatings. The concentration of colourants is very low and they are insoluble in water. In the printing process, they only diffuse at temperatures above 50°C.

The information contained in this Safety Data Sheet is given in good faith, but without warranty of any kind. Intending users are advised to determine independently the safety and suitability of each product in their particular application.

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4. FIRST AID MEASURES

Only normally needed for thermal burns and for inhalation of smoke from burning material. Treat in the same way as other thermal burns and wood smoke inhalation.

Inhalation : Remove patient from exposure.

Skin Contact : If symptoms develop, obtain medical attention.

Eye Contact : Irrigate with eyewash solution or clean water holding the eyelids apart.

Ingestion : Unlikely to be required but if necessary treat symptomatically.

Further Medical Treatment

Unlikely to be required but if necessary treat symptomatically.

5. FIREFIGHTING MEASURES

Low fire hazard.

Will shrink away from heat sources or flame.

Persistent application of a flame will ignite the material.

Burning is accompanied by melting and dripping which may cause the fire to spread.

Combustion will evolve irritant vapours.

At complete combustion, the major products formed are carbon dioxide and water.

Some of the products of decomposition will also be present but at a concentration considerably less than carbon dioxide and carbon monoxide.

Extinguishing Media: As appropriate for surrounding materials/equipment.

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6. SPILLAGE/ACCIDENTAL RELEASE

Not relevant for this material.

7. HANDLING AND STORAGE

To maintain print quality do not touch printing media surfaces. Touching the colour ribbon might cause slight staining of the skin. Wash skin with soap and water. Keep away from heat and sources of ignition.

Storage Temperature: Ambient.

Exposure to extremes of heat and cold should be avoided.

Avoid extremes of humidity.

8. PERSONAL PROTECTION

Not relevant for this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

The following values are broadly representative of the material supplied. They are not intended to be accurate specifications for the product, but are provided for guidance.

Density (g/ml)	: 1.395 - 1.410 at 23 °C
Flash Point (°C)	: 440
Minimum Ignition Temperature (°C)	: 480
Decomposition Temperature (°C)	: 260
Solubility (Water)	: insoluble
Upper melt temperature (°C)	: 255 - 260
Specific heat	: 1.34 KJ/kg at 25 °C
Thermal conductivity (W/mK)	: 0.14
Heat of combustion	: 23.5 mJ/kg
Limiting oxygen index	: 21

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10. STABILITY AND REACTIVITY

Hazardous Decomposition Product(s):

Above the decomposition temperature the major volatiles will be terephthalic acid, oligomers of PET, carbon dioxide, carbon monoxide, low molecular weight alcohols/aldehydes and acrylates from the coating. If involved in a fire, it may emit noxious and toxic fumes.

Hazardous Reactions: Not known.

11. TOXICOLOGICAL INFORMATION

Inhalation : Combustion products may be irritants.

Skin Contact : No evidence of irritant effects from normal handling and use.

Eye contact : Highly unlikely under normal use.

Ingestion : Highly unlikely under normal use.

Long Term Exposure : No relevant information. Chronic effects are unlikely.

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12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution

VOC content <1%

The product is essentially insoluble in water.

Toxicity

Adverse effects would not be expected.

13. WASTE DISPOSAL

Bury on an authorized landfill site or incinerate under approved controlled conditions.

14. TRANSPORT

Not classified as Hazardous for Transport.

15. REGULATORY INFORMATION

Not classified as Hazardous to Users.

16. OTHER INFORMATION

For other technical information, contact the address in Section 1.
