

150 UT PF

<150µm>

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product name:	<u>RICOH THERMAL PAPER TYPE 150 UT PF <150µm></u>
1.2. Company name:	RICOH INDUSTRIE FRANCE S.A.S.
Address:	144, route de Rouffach 68920 WETTOLSHEIM COLMAR FRANCE
Telephone number for information:	+33 (0)3 89 20 40 00
Emergency telephone number:	+33 (0)3 89 20 41 34

2. HAZARDS IDENTIFICATION

Not classified as a dangerous product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Character:

The 150 UT <150µm> grade consists of a wood-free base paper made from ECF (elementary chlorine free) pulp, with a surface specially treated for the coating of a thermal layer and a protective «top coat» covering the thermal layer.

The main chemical components of the thermal layer are wax, a color former, a color developer and additives adjusting the fusing process to the requirements of the different printheads. These components are fixed to the base paper by a binder. To improve the thermal printing characteristics as well as the performance of the coating process, various other additives and pigments (such as calcium carbonate) are added to the coating liquids.

4 . FIRST AID MEASURES

<u>Inhalation:</u>	It is unlikely that emergency treatment will be required. If adverse effects occur, remove from exposure, treat symptomatically and supportively and get medical attention.
<u>Skin contact:</u>	It is unlikely that emergency treatment will be required. If adverse effects occur, remove from exposure, treat symptomatically and supportively and get medical attention.
<u>Eye contact:</u>	Wash eyes with large amounts of water, until no evidence of paper remains (at least 15 minutes). Get medical attention if adverse effects occur.
<u>Ingestion:</u>	It is unlikely that emergency treatment will be required. If adverse effects occur, remove from exposure, treat symptomatically and supportively and get medical attention.

5 . FIREFIGHTING MEASURES

<u>Extinguishing media:</u>	Water spray, foam, and water
<u>Hazardous combustion Products:</u>	Thermal decomposition products may include toxic oxides of carbon for example, carbon mono oxide.
<u>Fire and explosion hazard:</u>	Fire hazard when exposed to heat or flame. No explosion hazard, as long as there is no formation of dust-air mixture.
<u>Fire fighting:</u>	Prevent inhalation of gases during fire. Do not scatter spilled material with high-pressure streams. Dike fire-control water for later disposal.

6 . ACCIDENTAL RELEASE MEASURE

Collect material for recycling or disposal as used thermal paper.

7 . HANDLING AND STORAGE

<u>Handling:</u>	Should only be transported with proper
<u>Storage:</u>	Temperature should not exceed 25°C Relative humidity should be less than 60 % No exposure to direct sunlight as well as direct exposure to UV rays; Avoid water contact; No contact with solvents or solvent agents such as adhesives and cosmetics; No contact with aggressive gas like NO _x or vapor of organic solvent; No exposure to any strong mechanical or physical friction process such as scratches.

8 ◦ EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Eye protection:</u>	Not necessary
<u>Protective clothing:</u>	Not necessary
<u>Gloves:</u>	Not necessary
<u>Other:</u>	Safety shoes are recommended if one's work requires handling and removing heavy paper reels.

9 ◦ PHYSICAL AND CHEMICAL PROPERTIES

<u>Physical state:</u>	Coated paper
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10 ◦ STABILITY AND REACTIVITY

<u>Stability:</u>	Stable under normal temperature and moisture conditions.
<u>Conditions to avoid:</u>	May burn but does not ignite easily. Avoid contact with strong oxidisers, excessive heat, sparks, or open flame.

11 ◦ TOXICOLOGICAL INFORMATION

LD50 (oral):	> 2000 mg/Kg	=>	According to OECD guidelines: 401
Skin irritation (Rabbit):	Not irritant	=>	According to OECD guidelines: 404
Mutation (Ames test):	No mutagenic activity	=>	According to OECD guidelines: 471
Sensitivity test:	No sensitivity	=>	According to Buehler test method

12 ◦ ECOLOGICAL INFORMATION

There is no data available on ecological consequences of release of this product into the environment.

13 ◦ DISPOSAL CONSIDERATIONS

The product is fit for recycling or burning but anyhow, the product should be disposed according to the local regulation.

14 ◦ TRANSPORT INFORMATION

No classification currently assigned.

15 ◦ REGULATORY INFORMATION

There is no regulatory information for this product.

16 ◦ OTHER INFORMATION

- 150 UT PF products conform to the directive on Packaging and Packaging waste 94/62 EC.

This Material Safety Data Sheet has been established in accordance with the applicable European Directives including Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Regulation, Evaluation, Authorization and Restriction of Chemicals (REACH), and applies to all countries that have translated the Directives in their national laws.

The information and recommendations contained herein are, to the best of our knowledge and belief, accurate and reliable as of the data issued. We do not warrant or guarantee their accuracy or reliability, and we shall not be liable for any loss or damage arising out of the use thereof. The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use.