

MATERIAL SAFETY DATA SHEET
In dependence on regulation (EC) No. 1907/2006*

155 UT <190µm>

Revision date: 11.05.2016

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product name: **RICOH THERMAL PAPER TYPE 155 UT <190µm>**

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 155 UT <190µm> quality consists of wood free base paper, made from ECF (elementary chlorine free) pulp, with a specially treated clay undercoat, a thermal sensitive coating and a protective «top-coat» covering the thermal layer.

The main chemical components in the thermal layer are wax-type materials, colour former, colour developer and additives which adjust the melting process according to the requirements of the various print heads. The components are fixed on the base paper by a binder. For better thermal printing characteristics as well as better performance of the coating process various other additives and pigments (like calcium carbonate or clay) are added into the coating mixture.

4. First aid measures

General advice:	none
After inhalation:	void
After skin contact:	void
After eye contact:	void
After swallowing:	void

5. Firefighting measures

Extinguishing media: any fire extinguisher may be used.

For safety reasons unsuitable extinguishing agents: use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special hazards arising from the substance or mixture: in case of fire formation of carbon oxides and other toxic gases/vapors is possible.

Special protective equipment for firefighters: wear appropriate personal protective equipment.

6. Accidental release measure

Personal precautions, protective equipment and emergency procedures: none

Environmental precautions: none

Methods and material for containment and cleaning up: not applicable

Additional information: none

Reference to other sections: see section 7 for information on safe handling and section 13 for information on disposal.

7. Handling and storage

Protections for safe handling: maintain good safety practice.

Information about protection against explosions and fires: paper will burn when exposed to flame. Observe the general rules of industrial fire protection.

Conditions for safe storage, including any incompatibilities: 155 UT <190µm> product should be stored indoors, at temperatures between 18 °C and 25 °C and with a relative humidity of 40 % to 60 %. Longer storage or storage at temperatures over 40°C or over 65% relative humidity can lead to a reduction in image contrast through lower brightness or lower performance of the thermal image lifetime. Direct sunlight, fluorescent and similar UV light sources should be avoided. Store in area away from heat or open flame and excessive moisture.

8. Exposure controls/personal protection

Control parameters:	not applicable
Engineering controls:	not applicable
General protective and hygienic measures:	when using do not eat, drink or smoke.
Breathing equipment:	not applicable
Protection of hands:	if necessary, wear gloves to prevent cuts, edges may be sharp and can cut skin. Wash hands after handling.
Eye protection:	not applicable
Body protection:	not applicable

9. Physical and chemical properties

Physical state:	solid
Colour:	white
Odour:	practically odourless
pH-value:	not determined
Melting point/Melting range:	not determined
Decomposition temperature:	not determined
Ignition temperature:	> 200 °C
Flash point:	not applicable
Self-inflammability:	not applicable
Danger of explosion:	product is non potentially explosive
Relative density (23 °C):	approx. 0.9 g/cm ³
Water solubility:	not soluble
Viscosity:	not applicable
Other information:	no further relevant information available

10. Stability and reactivity

The product is stable and not reactive.
No thermal decomposition when stored and handled correctly.

11. Toxicological information

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12. Ecological information

The product does not pose any known risk for the environment. It is recommended to dispose for recycling after use.

13. Disposal considerations

It is possible to recycle 155 UT <190µm> product by using a de-inking process. Secondary fibres with a relatively high brightness can be obtained. It is not necessary to keep 155 UT<190µm> product separate from other paper waste. The usual methods of waste treatment can be used, i.e. incineration or disposal. Never discharge directly into sewers or surface waters. Disposal must be made according to official regulations.

14. Transport information

Not classified as hazardous for transport (ADR/RID, ADNR, IMDG, ICAO/IATA).

15. Regulatory information

This product is not subject to identification regulations under EU directives.

16. Other information

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction.

It is always the responsibility of the user to take all necessary steps in order to fulfill the demand laid down in the local rules and legislation. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

* The present product is an article in the sense of regulation (EC) No. 1907/2006 (REACH). According to article 31 and annex II of the REACH regulation there is no legal obligation to compile safety data sheets for articles. In order to meet the increasing customer demand and to promote the risk-prevention, this safety data sheet is provided on voluntary basis in dependence on REACH. The information in this safety data sheet is given to ensure safe use and handling of the product and to protect the environment.