

MATERIAL SAFETY DATA SHEET

Issuing date: 01.03.12

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

- 1.1. Product name: **RICOH THERMAL PAPER TYPE 150 LHB**
- 1.2. Company name: RICOH COMPAGNY, Ltd
Departement Environment Safety Center, Corporate Environment Division
Address: 146-1 Nishisawada, Numazu-shi, Shizuoka-ken, 410-0007
JAPAN
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2. Composition/information on ingredients

	<u>Weight (%)</u>	
Base paper:	82-87	%
Resin:	2-5	%
Phenol Derivative:	2-5	%
Inorganic Pigment:	1-3	%
Organic Pigment:	1-2	%
Leuco dye:	<1	%

3. Hazards identification

Not hazardous according to our knowledge.

4. First aid measures

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

Extinguishing media:	CO ₂ , dry chemicals, foam and water
Hazardous combustion Products:	Thermal decomposition products may include toxic oxides of carbon for example carbon mono oxide.
Fire and explosion hazard:	Fire hazard when exposed to heat or flame. No explosion hazard, as long as there is no formation of dust-air mixture.
Fire fighting:	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 measures

Collect material for recycling or disposal as used thermal paper.

7. Handling and storage

There are no special safety regulations for storing or handling this product.
Paper reels should only be transported within the storage with proper equipment.

8. Exposure controls/personal protection

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

9. Physical and chemical properties

Physical state:

Form: Paper
Color: White
Odour: None

10. Stability and reactivity

Stability:

Stable under normal temperature and moisture conditions.

Conditions to avoid:

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 guide lines: 401
Skin irritation (Rabbit):	Not irritant	=> According to OECD guide lines: 404
Mutation (Ames test):	No mutagenic activity	=> According to OECD guide lines: 471
Sensitivity test:	No sensitivity.	=> According to Buehler test method
Effects on the reproductive system	No data is available on this product.	
Teratogenic effects:	Not available	

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.

Specific precautionary transport measures: Store in cool and dry place avoiding sunshine.

15. Regulatory information

There is no regulatory information for this product.

16. Other information

- **BGVV certification :**

Thus the thermal paper quality 150 LHB is safe from a physiological and toxicological point of view when used according to its intended purpose. It may be used safely in printers and scales for the marking of goods. However, it may only stand in direct contact with such foodstuffs which are usually rinsed and/or peeled before consumption.

- **Heavy metal content according to:**

European safety of toys EN 71/3, state of May 2003.

- **150 LHB 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.