

Material Safety Data Sheet (MSDS)

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rev. 5

1. Product and Company identification

Product name : Red ink ribbon
Ink ribbon for LC-3WRN9/LC-4WRN9/LC-5WRN9/
RC-R1RNA
Company : SEIKO EPSON CORP.
Address : 6925 Tazawa, Toyoshina, Azumino-shi, Nagano-ken
399-8285, Japan
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2. Hazards Identification

GHS Classification

This product is not classed as hazardous to health by directive 1999/45/EC

GHS Label Elements Including Precautionary Statements

Not applicable

Other Hazards

No data is available regarding the product itself.

3. Composition/Information on Ingredients

Substance/Mixture : Mixture

General product description : Ink ribbon

Composition	CAS No.	EEC No.	EU registration No.	% By Weight	EU Symbols	EU R-phrase	EU OELs	Remark
Titanium dioxide	13463-67-7	236-675-5	Not available for the moment	3	None	None	None	None
Silica SiO ₂	7631-86-9	231-545-4	Not available for the moment	2	None	None	None	None
Coloring Material	Trade secret	Trade secret	Not available for the moment	Trade secret	None	None	None	None
Resin	Trade secret	Trade secret	Not available for the moment	Trade secret	None	None	None	None
Additive agent	Trade secret	Trade secret	Not available for the moment	Trade secret	None	None	None	None
Polyethylene terephthalate (PET) film	25038-59-9	None	Not available for the moment	Trade secret	None	None	None	None

4. First Aid Measures

Description of first aid measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing in an unconscious person.

Eye contact	: Rinse thoroughly with a large volume of water immediately. Then consult an eye specialist.
Skin contact	: Wash off with a large volume of water and soap.
Inhalation	: Not applicable
Ingestion	: In the event of ingestion, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. If swallowed accidentally, call a doctor to assess the need for monitoring and subsequent treatment in hospital.

Most important symptoms and effects, both acute and delayed

No data is available regarding the product itself.

Indication of any immediate medical attention and special treatment needed

No data is available regarding the product itself.

5. Fire-Fighting Measures

Extinguishing media	: Water mist, Foam, Dry powder, CO2 gas, other
Unsuitable extinguishing media	: Not applicable
Special hazards arising from the substance or mixture	: No information
Advice for firefighters	: No special measures required.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

: Consult the safety measures listed under headings 7 and 8.

Environmental precautions : Do not pour into drains or waterways.

Methods and materials for containment and cleaning up

: If inadvertently released, rewind ribbon.

Reference to other sections : Section 8,13

7. Handling and Storage Precautions

The regulations relating to storage premises apply to workshops where the product is handled.

Precautions for safe handling: No special. For personal safety, see section 8.

Conditions for safe storage, including any incompatibilities:

Should be stored in dark and cool place.

Specific end use(s) : Thermal transfer ribbon

8. Exposure Controls/ Personal Protection

Control parameters

Exposure limit values :

Substance : Titanium dioxide CAS № : 13463-67-7

	Limit value-Eight hours		Limit value-Short term	
Country	ppm	mg/m3	ppm	mg/m3
United Kingdom		10 inhalable aerosol 4 respirable aerosol		
France		11 inhalable aerosol		
Germany				
USA-OSHA		15 total dust		

Substance : Silica amorphous CAS № : 7631-86-9

	Limit value-Eight hours		Limit value-Short term	
Country	ppm	mg/m3	ppm	mg/m3
United Kingdom		6 inhalable aerosol 2.4 respirable aerosol		
France				
Germany(AGS)		4 inhalable aerosol		
Germany(DFG)		4 inhalable aerosol		
USA-OSHA		80/% silica total dust		

Exposure controls

Appropriate engineering controls: Not applicable

Individual protection measures, such as personal protective equipment:

Use personal protection equipment as per Directive 89/686/EEC.

Eye/face protection : Not applicable in normal conditions of use.

Skin protection

Hand protection : Wear protective gloves when required.

Other skin protection : Wear suitable protective clothing when required.

Respiratory protection : Not applicable in normal conditions of use.

For further information, see section 11 of S.D.S. - Toxicological information.

Environmental exposure controls: Not applicable in normal conditions of use.

9. Physical and Chemical Properties

Physical appearance, color, etc.	: Polyethylene terephthalate film coated on one side thereof with red ink wrapped around center core.
pH	: not relevant
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: This product is not classed as flammable.
Upper/lower flammability or explosive limits	: No data available
Vapor pressure	: No data available
Vapor density	: No data available
Relative density	: No data available
Solubility(ies)	: Negligible(water)
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Other information	: No data available

10. Stability and Reactivity

Reactivity	:The product is stable at the handling and storage conditions recommended per section 7 of the safety data sheet,
Chemical stability	:The product is stable at the handling and storage conditions recommended per § 7 of the safety data sheet,
Possibility of hazardous reactions	: No hazardous reaction when handled and stored according to provisions.
Conditions to avoid	:High temperature, High humidity, direct sunlight
Incompatible materials	: None
Hazardous decomposition products	: No dangerous decomposition products occur under normal storage and use conditions.

11. Toxicological information

Acute toxicity	: No data is available regarding the product itself.
Irritation	: No data is available regarding the product itself.
Corrosivity	: No data is available regarding the product itself.
Sensitization	: No data is available regarding the product itself.
Repeated dose toxicity	: No data is available regarding the product itself.
Carcinogenicity	: No data is available regarding the product itself.
Mutagenicity	: No data is available regarding the product itself.
Toxicity for reproduction	: No data is available regarding the product itself.
Other data	: No data is available regarding the product itself.
Titanium dioxide 13463-67-7	: IARC Group 2B Possibility carcinogenic to humans.

12. Ecological information

Toxicity : No data is available
Persistence and degradability: No data is available
Bioaccumulative potential : No data is available
Mobility in soil : No data is available
Results of PBT and vPvB assessment : No data is available
Other adverse effects : No data is available

13. Disposal Considerations

Waste treatment methods :
Do not pour into drains or waterways.
Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.
Do not dispose of waste into the environment.

14. Transport Precautions

UN number : Not applicable
UN proper shipping name : Not applicable
Transport hazard class(es) : Not applicable
Packing group : Not applicable
Environmental hazards : Not applicable
Special precautions for user : No special
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code :
Not applicable

15. Applicable regulations

Safety, health and environmental regulations/legislation specific for the substance or mixture
EU regulations
Authorisations and/or restrictions on use : Not applicable
Other EU regulations : No data is available
Chemical Safety Assessment :
No Chemical Safety Assessment has been carried out for this mixture.

16. Disclaimer

The above mentioned data correspond to our present state of knowledge and experience, but no warranty is made. It could be revised by new perception.
Users should consider these data only as a supplement to other information and must make independent determination of the suitability and completeness of information from all sources to ensure proper use and disposal of the materials and safety and health of employees and customers.

<Revision history>

Rev.2 Compliant with GHS.
Rev.3 Revise of applicable regulations
Rev.4 Revise composition table
Rev.5 Ink ribbon for RC tape is added.