

Safety Data Sheet (SDS)

Issue date: Dec. 17, 2015

MSDS#: 15QA073

Revised date: Jan. 28, 2016

rev. 2

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

Product identifier : Glow in the dark receptor tape
Receptor tape for LK-5ZBU/LK-4ZBU

Details of the supplier of the safety data sheet

Distributor : EPSON EUROPE B.V.
Address : Azie building, Atlas ArenA, Hoogoorddreef
5,1101 BA Amsterdam Zuidoost The Netherlands
www.epson-europe.com

Telephone No. : +31-20-314-5000
Fax. No. : +31-20-314-5100
E-mail address : chemicals@epson-europe.com

Emergency telephone number : Giftnotruf Berlin +49 (0) 30 30686790

2. Hazards Identification

GHS Classification

This product is not classed as flammable.

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

GHS Label Elements Including Precautionary Statements : Not applicable

Hazard Statement :None

Toxicological information :None

Ecological Information :None

3. Composition/Information on Ingredients

Substance/Mixture :Mixture

Composition	Content (%)	EC No.	Symbol	R:	CAS No.
Polyethylene terephthalate (PET) film	Trade secret	Trade secret	Trade secret	Trade secret	25038-59-9
Polyester resin	Trade secret	Trade secret	Trade secret	Trade secret	Trade secret
Phosphorescent pigment	Trade secret	Trade secret	Trade secret	Trade secret	Trade secret
Acrylic adhesive agent	Trade secret	Trade secret	Trade secret	Trade secret	Trade secret
Paper	Trade secret	Trade secret	Trade secret	Trade secret	Trade secret

U.N. classification and number : Not applicable

4. First Aid Measures

Eye contact	:Rinse thoroughly with clean water. If there is foreign material in eyes or wound or pain consult an eye specialist.
Skin contact	:Wash off with water and soap.
Inhalation	:Blow nose and gargle.
Ingestion	:Induce vomiting if possible. If aberrance happens, consult a physician.

5. Fire-Fighting Measures

Extinguishing method	:Use same method as normal fire. Protective equipment are required.
Extinguishing media	:A large volume of water, extinguish agent (powder, bubble), carbon dioxide.

6. Accidental Release Measures

Collect and recover to prevent effluence.

7. Handling and Storage Precautions

Handling	: This tape is for printing. Do not use for electrical insulation. Wipe off oil or water on the surface where this tape is stuck before sticking.
Storage	:Keep away from high humidity , high temperature, water leakage, dew condensation, direct sunlight and store in cool place.

8. Exposure Controls/ Personal Protection

Control limit	: Not applicable.
Occupational exposure limits	: Not applicable.
Facility and equipment measures	: Not required.
Protective equipment:	
- Respiratory equipment:	Not required.
- Safety goggles:	Not required.
- Protective gloves:	Not required.
- Protective suit:	Not required.

9. Physical and Chemical Properties

Physical appearance, color, etc. : Pale yellow roll adhesive tape with paper liner, wrapped around center core.

Specific gravity :No data
Melting point :220 degree C at face of film
Flash point :Not applicable
Ignition temperature :Not applicable
Fusibility :Water: Insoluble

10. Stability and Reactivity

Stability :Stable
Material to avoid :None
Condition to avoid :None

11. Toxicological information

Acute toxicity :No data
Inhalation: :Huge volume of dust of this product is inhaled over the long term, pneumoconiosis might be developed.
Skin contact: :Contact with dust of this product over the long term, inflammation might be developed.
Eye contact: :Eye contact with dust of this product over the long term, inflammation might be developed.
Ingestion: :No data

12. Ecological information

Degradability: No data
Accumulative properties: No data
Fish toxicity: No data

13. Disposal Considerations

Waste treatment methods :Disposal should be in accordance with federal, state, and local requirements.

14. Transport Precautions

Nothing. Transport as general transported material.

Transport careful enough to prevent falling over, drop and cargo collapse.

UN classification/UN number : Not applicable

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 Information

Regulation (EC) No 2037/2000: Is not subject

Regulation (EC) No 850/2004: Is not subject

Regulation (EC) No 689/2008: Is not subject

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 Revise of the supplier of the safety data sheet

Safety Data Sheet (SDS)

Issue date: Dec. 3, 2015

MSDS#: 15QA064

Revised date: Jan. 28, 2016

rev. 2

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

Product identifier : Black ink ribbon D
Ink ribbon for LK-1WBN/LK-1YBP/LK-1TBN/LK-2RBP/
LK-2WBN/LK-3RBP/LK-3YBW/LK-3TBW/LK-3WBW/
LK-4KBK/LK-4RBP/LK-4YBW/LK-4TBW/LK-4WBW/
LK-4SBE/LK-4SBM/LK-4KBM/LK-4WBN/LK-4ZBKA/
LK-5WB2/LK-5RBP/LK-5YBW/LK-5TBW/LK-5WBW/
LK-5SBE/LK-5ZBU/LK-5SBR/LK-5YB2/LK-5RB2/LK-5LB2/
LK-5GB2/LK-6WB2/LK-6RBP/LK-6YBP/LK-6WBN/
LK-6TBN/LK-6SBE/LK-6YB2/LK-6RB2/LK-6LB2/LK-6GB2/
LK-7WB2/LK-7RBP/LK-7YBP/LK-7WBN/LK-7TBN/LK-7YB2/
LK-6WBC/LK-7WBC

Details of the supplier of the safety data sheet

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18. 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.

19. 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
Carbon black	1333-86-4	215-609-9	Not available for the moment	Trade secret	None	None	None	None
Ethylene copolymerized resin	Trade secret	Trade secret	Not available for the moment	Trade secret	None	None	None	None
Polyolefin resin	Trade secret	Trade secret	Not available for the moment	Trade secret	None	None	None	None
Polyester Resin	Trade secret	Trade secret	Not available for the moment	Trade secret	None	None	None	None
Silicon copolymerized resin	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

U.N. classification and number : Not applicable

20. First Aid Measures

Eye contact	:Rinse thoroughly with running water immediately. Then consult an eye specialist.
Skin contact	:Wash off with water and soap.
Inhalation	:Blow nose and gargle.
Ingestion	:Rinse mouth thoroughly with water. Then consult a physician.

21. Fire-Fighting Measures

Extinguishing method	:Use a large volume of water, extinguishing agent.
Extinguishing media	:A large volume of water, extinguish agent (powder, bubble), carbon dioxide.

22. Accidental Release Measures

Collect and recover.

23. Handling and Storage Precautions

Handling	:Use in normal temperature, normal humidity and non-condensing.
Storage	:Keep away from high temperature, high humidity, fire, water leakage, direct sunlight and condensing, store in indoor warehouse in normal temperature and normal humidity.

24. Exposure Controls/ Personal Protection

Control parameters

Exposure limit values :

Substance : Carbon black CAS № : 1333-86-4

Country	Limit value-Eight hours		Limit value-Short term	
	ppm	mg/m3	ppm	mg/m3
United Kingdom		3.5		7
France		3.5		
Germany				
USA-OSHA		3.5		7

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.

25. Physical and Chemical Properties

Physical appearance, color, etc. :PET film coated black ink in one side wrapped around center core.

Specific gravity :0.95

Boiling point : <200 degree C

Melting point :250 to 265 degree C (Melting partly at about 135 degree C)

Fusibility :Water: Insoluble

26. Stability and Reactivity

Flash point :>200 degree C

Ignition quality :No (at normal temperature)

Oxidation nature :No

Self-reactive, Explosiveness :No

Dust explosiveness :No

Stability , Reactivity : Stable at normal temperature

27. Toxicological information

Skin Corrosion :No

Irritation(Eyes, Skin) :No

Acute toxicity(Including LD50) :No data.

Carcinogenicity :Carbon black IARC group 2B
(Influence on a human body is not confirmed.)

28. Ecological information

Degradability:	No data
Accumulative properties:	No data
Fish toxicity:	No data

29. Disposal Considerations

Product should be disposed in accordance with the regulations issued by the appropriate federal, provincial, state and local authorities.

30. Transport Precautions

Transport careful enough to prevent falling over, drop and cargo collapse.
Avoid high temperature, high humidity and condensing in transportation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code :
Not applicable

31. 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.

32. 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.

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Rev.2 Revise of the supplier of the safety data sheet