

# SAFETY DATA SHEET

UX-15CR, FO-15CR, UX-3CR, UX-6CR, UX-31CR, UX-32CR, UX-9CR,  
UX-91CR, UX-92CR, UX-93CR, UX-71CR, UX-72CR (Ink)

## SECTION 1: Product and company identification

Product Name : THERMAL TRANSFER RIBBON  
UX-15CR, FO-15CR, UX-3CR, UX-6CR, UX-31CR, UX-32CR,  
UX-9CR, UX-91CR, UX-92CR, UX-93CR, UX-71CR, UX-72CR

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MSDS Number : 15A-0001

## SECTION 2: Hazards identification

GHS Classification

Serious eye damage/eye irritation : Category 2B

GHS Label Elements

Pictogram : None

Signal Word : Warning

Hazard Statements : Causes eye irritation.

Precautionary Statements : Wash hands thoroughly after handling.  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to remove.  
Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

## SECTION 3: Composition/information on ingredients

Substance or Mixture : Mixture

Chemical Nature

Ingredients	CAS No.	Contents(wt%)	OSHA PEL	ACGIH TLV
[Ink]				
Paraffin Wax	8002-74-2	23.0 - 28.0	-	2.0mg/m3 (fume)
Carbon Black	1333-86-4	6.0 - 9.0	3.5mg/m3	3.5mg/m3
Resin	27923-68-8	5.0 - 7.0	-	-
Carnauba Wax	8015-86-9	4.0 - 6.0	-	-
Ethylene-vinyl acetate copolymer	24937-78-8	4.0 - 5.0	-	-
Pigment A	557-05-1	0.5 - 0.9	*1	10.0mg/m3
Pigment B	Confidential	0.0 - 0.6	-	
[Film]				
Polyethylene Terephthalate	25038-59-9	48.0 - 53.0	-	-

\*1 : 5mg/m3 (respirable fraction)  
15mg/m3 (total dust)

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## SECTION 4: First aid measures

Inhalation	: Get medical advice/attention if you feel unwell.
Skin Contact	: Wash thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.
Eye Contact	: Rinse with plenty of water and seek medical advice if any irritation remains.
Ingestion	: Wash mouth with water and get medical advice.
Most important symptoms and effects, both acute and delayed	: No information available.

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## SECTION 5: Firefighting measures

Extinguishing Media	: Water, Foam, CO2, Dry Chemical and others.
Unsuitable Extinguishing Media	: No information available.
Specific hazards	: Hazardous combustion products may include carbon monoxide, carbon dioxide (CO2) .
Specific Method	: Fight fire from upwind position if possible.
Special Protective Equipment for Firefighters	: Fire fighters should wear suitable protective clothing and self-contained breathing apparatus.

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## SECTION 6: Accidental release measures

Personal Precautions	: Wear appropriate personal protective equipment as specified in section 8.
Environmental Precautions	: Do not release into soil, sewers, river, or the public water courses.
Clean-up Methods	: Sweep up and collect spilled product.

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## SECTION 7: Handling and storage

Handling	
Technical Measures	: Refer to Section 8.
Safe Handling Advice	: Handle in well ventilated area. Prohibition of dropping and throwing. Wash hands thoroughly after handling.
Storage	
Suitable Storage Conditions	: Keep away from heat and direct sunlight. Store in cool, dry, well-ventilated area.
Safe Packaging Material	: No information available.

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## SECTION 8: Exposure controls/personal protection

Engineering Measures	
Local Exhaust	: None required under normal conditions of use.
Personal Protective Equipment	
Respiratory Protections	: None required under normal conditions of use.
Hand Protection	: It is not required in particular, but wearing of protection gloves is preferable to prevent soiling of hands.
Eye Protection	: None required under normal conditions of use.
Skin and Body Protection	: None required under normal conditions of use.

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## SECTION 9: Physical and chemical properties

### Physical State

Form : Ribbon  
Color : Black  
Odor : None

### Information

pH : No data available  
Boiling Point (°C) : No data available  
Flash Point (°C) : No data available  
Fire Point (°C) : Above 480 (Film)  
Melting Point (°C) : Above 250 (Film)  
Explosion Properties (°C) : This product is considered a no explosive material under normal use condition.  
Vapor Pressure (pa) : No data available Measuring Temperature (°C) : -  
Vapor Density (Air=1) : No data available  
Density (g/cm3) approx. 1.4 (Film) Measuring Temperature (°C) : 20

### Solubility

Water Solubility (g/L) : Insoluble  
Water Solubility Measuring Temperature (°C) : -  
Octanol / Water Partition Coefficient : Not known

## SECTION 10: Stability and reactivity

Reactivity : No hazardous reaction if stored and handled as prescribed.  
Stability : Stable under normal conditions of use.  
Conditions to Avoid : No information available.  
Materials to Avoid : No information available.  
Hazardous Decomposition Products : No dangerous decomposition products known.

## SECTION 11: Toxicological information

### Acute Toxicity

Acute Oral Toxicity : LD50 (rat) 15400mg/kg [Carbon black]  
LD50 (rat) >5000mg/kg [Paraffin Wax]  
Acute Dermal Toxicity : LD50 (rabbit) >3600mg/kg [Paraffin Wax]  
Acute Inhalation Toxicity : No data available  
Skin corrosion/irritation : (rabbit) mild, not irritating [Paraffin wax]  
Serious eye damage/eye irritation : May cause eye irritation.  
(rabbit) slightly irritation, mild irritation [Paraffin wax]  
Respiratory or skin sensitization : No data available  
Germ cell mutagenicity : No data available  
Carcinogenicity : The carbon black contained in this product corresponds to IARC group 2B.  
This classification is given to chemicals for which there is inadequate human evidence, but sufficient animal evidence on which to base an opinion of carcinogenicity. The classification is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats did not show any association between carbon black and lung tumors.  
Reproductive toxicity : No data available  
Specific target organ systemic toxicity -Single exposure : Fumes may cause mild irritation. [Paraffin wax]

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Specific target organ systemic toxicity -Repeated exposure	:	Epidemiologic studies of workers in the carbon black producing industry in the U.S. and in Western Europe show no significant adverse health effect due to occupational exposure to carbon black.[Carbon black]
Specific target organ systemic toxicity -Repeated exposure	:	Epidemiologic studies of workers in the carbon black producing industry in the U.S. and in Western Europe show no significant adverse health effect due to occupational exposure to carbon black.[Carbon black]
Aspiration hazard	:	No data available

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## SECTION 12: Ecological information

Ecotoxicity	
Acute Toxicity for Fish	: No data available
Acute Toxicity for Daphnia	: No data available
Algae Inhibition Test	: No data available
Mobility	: No data available
Persistence / Degradability	: No data available
Bioaccumulation	No data available

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## SECTION 13: Disposal considerations

Recommended Methods for Safe Environmentally Preferred Disposal  
: Dispose of waste material in accordance with local, state and federal pollution regulations.

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## SECTION 14: Transport information

International Regulations	
UN Number	: None
Proper shipping name	: Not applicable
Hazard Class	: Not regulated as a hazardous material.
Packing Group	: Not applicable

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## SECTION 15: Regulatory information

Follow all regulations in your country.

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## SECTION 16: Other information

Date Issued	Oct. 4, 2011
Date Revised	May. 12, 2015

Literature Reference : SDS of raw material manufacturer  
NITE: Chemical Risk Information Platform  
3E: Ariel Research Tool

The information contained herein is based on the current knowledge.  
This Safety Data Sheet is intended to describe our products in correctness of safety requirements.  
It should not therefore be construed as guaranteeing specific properties.  
The data applies to only usual handling.