



## SAFETY DATA SHEET

## 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME	Linx Brilliant White ink 1305
PRODUCT NO.	1305
APPLICATION	Ink for Linx® inkjet printers
SUPPLIER	Linx Printing Technologies plc Burrel Road ST IVES Cambridgeshire PE27 3LA UK +44 (0)1480 302100 +44 (0)1480 302116 <a href="http://www.linxglobal.com">www.linxglobal.com</a>
EMERGENCY TELEPHONE	USA only: 1-800-535-5053 (24 HOUR SERVICE)

## 2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
BUTANONE	201-159-0	78-93-3	30-60%	F;R11 Xi;R36 R66 R67
ETHANOL	200-578-6	64-17-5	10-30%	F;R11
2-METHOXY-1-METHYLETHYL ACETATE	203-603-9	108-65-6	1-5%	R10 Xi;R36
POTASSIUM THIOCYANATE	206-370-1	333-20-0	1-5%	Xn;R20/21/22. R32.

The Full Text for all R-Phrases are Displayed in Section 16

### 3 HAZARDS IDENTIFICATION

Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

CLASSIFICATION Xi;R36. F;R11. R66, R67.

## 4 FIRST-AID MEASURES

## GENERAL INFORMATION

Get medical attention if any discomfort continues. Do not give victim anything to drink if they are unconscious.

## INHALATION

Move the exposed person to fresh air at once. If breathing stops, provide artificial respiration. Keep the affected person warm and at rest. Get prompt medical attention.

## INGESTION

**DO NOT INDUCE VOMITING!** Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Provide rest, warmth and fresh air. Get medical attention immediately!

#### **SKIN CONTACT**

**SKIN CONTACT**  
Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

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**EYE CONTACT**

Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes and get medical attention.

**5 FIRE-FIGHTING MEASURES****EXTINGUISHING MEDIA**

Fire can be extinguished using: Alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>). Water spray, fog or mist. Powder.

**SPECIAL FIRE FIGHTING PROCEDURES**

Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control. Containers close to fire should be removed or cooled with water.

**UNUSUAL FIRE & EXPLOSION HAZARDS**

**HIGHLY FLAMMABLE!** Vapours may form explosive mixture with air at room temperature. Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back.

**6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet. Do not breathe vapour. Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection.

**ENVIRONMENTAL PRECAUTIONS**

Do not discharge into drains, water courses or onto the ground.

**SPILL CLEAN UP METHODS**

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Provide ventilation and confine spill. Do not allow runoff to sewer. Clean-up personnel should use respiratory and/or liquid contact protection. Absorb spillage with suitable absorbent material.

**7 HANDLING AND STORAGE****USAGE PRECAUTIONS**

Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Risk of vapour concentration on the floor and in low-lying areas. Contaminated rags and cloths must be put in fireproof containers for disposal.

**STORAGE PRECAUTIONS**

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a cool, dry well-ventilated place. May attack some plastics, rubber and coatings.

**STORAGE CLASS**

Flammable liquid storage.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	LT - ppm	LT - mg/m <sup>3</sup>	ST - ppm	ST - mg/m <sup>3</sup>
ETHANOL	WEL	1000 ppm	1920 mg/m <sup>3</sup>		
BUTANONE	WEL	200 ppm(Sk)	600 mg/m <sup>3</sup> (Sk)	300 ppm(Sk)	899 mg/m <sup>3</sup> (Sk)
2-METHOXY-1-METHYLETHYL ACETATE	WEL	50 ppm(Sk)	274 mg/m <sup>3</sup> (Sk)	100 ppm(Sk)	548 mg/m <sup>3</sup> (Sk)

**INGREDIENT COMMENTS**

WEL = Workplace Exposure Limits

**PROTECTIVE EQUIPMENT**

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### PROCESS CONDITIONS

Use engineering controls to reduce air contamination to permissible exposure level.

### RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

### HAND PROTECTION

Protective gloves must be used if there is a risk of direct contact or splash. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Rubber gloves are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.

### EYE PROTECTION

Wear approved safety goggles.

### OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

### HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet.

When using do not eat, drink or smoke.

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## 9 PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE	Coloured liquid		
COLOUR	White		
ODOUR	Characteristic of solvents		
VOLATILITY DESCRIPTION	Volatile.		
SOLUBILITY	Slightly soluble in water.		
BOILING POINT (°C)	c. 80 @ 760 mm Hg	MELTING POINT (°C)	c. -86
RELATIVE DENSITY	0.85 - 0.95 @ 20°C	VAPOUR DENSITY (air=1)	c. 2.4
VAPOUR PRESSURE	c. 78 mmHg @ 20°C	EVAPORATION RATE	> BuAc (BuAc=1)
VISCOSITY	c. 2 - 5 mPas @ 20°C	FLASH POINT (°C)	c. -6 CC (Closed cup).
AUTO IGNITION	c. 515	FLAMMABILITY LIMIT - LOWER(%)	c. 1.8 (%v/v)
TEMPERATURE (°C)			
FLAMMABILITY LIMIT - UPPER(%)	c. 11.5 (%v/v)		

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## 10 STABILITY AND REACTIVITY

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### STABILITY

No particular stability concerns.

### CONDITIONS TO AVOID

Avoid heat. Avoid contact with oxidisers or reducing agents. Avoid contact with acids and alkalies.

### HAZARDOUS POLYMERISATION

Will not polymerise.

### HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Asphyxiating gases/vapours/fumes of: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Nitrous gases (NO<sub>x</sub>).

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## 11 TOXICOLOGICAL INFORMATION

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### INHALATION

High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

Drowsiness, dizziness, disorientation, vertigo.

### INGESTION

Liquid irritates mucous membranes and may cause abdominal pain if swallowed. Nausea, vomiting. Diarrhoea.

### SKIN CONTACT

Product has a defatting effect on skin. Repeated exposure may cause skin dryness or cracking.

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**EYE CONTACT**

Irritating to eyes. Vapour or spray may cause temporary (reversible) eye damage.

**12 ECOLOGICAL INFORMATION****ECOTOXICITY**

Not regarded as dangerous for the environment.

**13 DISPOSAL CONSIDERATIONS****GENERAL INFORMATION**

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements. Absorb in vermiculite or dry sand, dispose in licensed special waste.

**WASTE CLASS**

European Waste Catalogue Number (2000/532/EC): 08 03 12

**14 TRANSPORT INFORMATION****PROPER SHIPPING NAME**

UN NO. ROAD

**PRINTING INK RELATED MATERIALS**

1210 ADR CLASS NO.

3 - F1

ADR CLASS

Class 3: Flammable liquids. ADR LABEL NO.

3

HAZCHEM CODE

3YE

RID CLASS NO.

3

UN NO. SEA

1210

IMDG CLASS

3

IMDG PACK GR.

II

EMS

F-E, S-D

MARINE POLLUTANT

No.

UN NO. AIR

1210

ICAO CLASS

3

AIR PACK GR.

II

**15 REGULATORY INFORMATION****LABELLING**

Irritant



Highly Flammable

**RISK PHRASES**

R11

Highly flammable.

R36

Irritating to eyes.

R66

Repeated exposure may cause skin dryness or cracking.

R67

Vapours may cause drowsiness and dizziness.

**SAFETY PHRASES**

S9

Keep container in a well-ventilated place.

S16

Keep away from sources of ignition - No smoking.

S25

Avoid contact with eyes.

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S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37	Wear suitable gloves.
S51	Use only in well-ventilated areas.
S60	This material and its container must be disposed of as hazardous waste.

### UK REGULATORY REFERENCES

The Control of Substances Hazardous to Health (COSHH) Regulations 2002 (S.I. 2002 No 2677). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (CHIP 3) (S.I. 2002 No 1689)

### EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EEC. System of specific information relating to Dangerous Preparations. 2001/58/EEC.

### APPROVED CODE OF PRACTICE

The Approved Code of Practice on Safety Data Sheets L130 (3rd Edition). The Approved Classification and Labelling Guide (ACLG) L131 (5th Edition).

### GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP3 for everyone HSG(228).

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## 16 OTHER INFORMATION

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### REVISION COMMENTS

Multiple language edition

### ISSUED BY

Paul Doody

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### GENERATED

SDS NO. MP80050

### SAFETY DATA SHEET STATUS

Approved.

### RISK PHRASES IN FULL

R10	Flammable.
R11	Highly flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R32	Contact with acids liberates very toxic gas.
R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

### DISCLAIMER

The information relates only to the specific material designated. Such information is, to the best of Linx's knowledge and belief, accurate and reliable, and is based on the present state of knowledge and current legislation as of the date indicated. As the specific conditions of use of the product are outside of Linx's control, it remains the sole responsibility of the end-user to satisfy themselves as to the suitability of such information for their own particular use and to ensure that the requirements of any relevant legislation are complied with.