

**LINX**

**SAFETY DATA SHEET**  
**Linx Solvent for wet process ink 1555**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

1.1. Product identifier

**Product name** Linx Solvent for wet process ink 1555  
**Product No.** 1555

1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Printing ink. Cleaning agent.

1.3. Details of the supplier of the safety data sheet

**Supplier** Linx Printing Technologies  
Burrell Road  
ST IVES  
Cambridgeshire PE27 3LA  
UK  
T: +44 (0)1480 302100 Available 9am-5pm  
Mon-Fri  
F: +44 (0)1480 302116  
MSDS@Linx.co.uk  
www.linxglobal.com

1.4. Emergency telephone number

24 HOUR SERVICE: (+1)-352-323-3500 (USA: 1-800-535-5053)

**SECTION 2: HAZARDS IDENTIFICATION**

2.1. Classification of the substance or mixture

**Classification (1999/45/EEC)** Xi;R36. F;R11. R66, R67.

2.2. Label elements

**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.
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.

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S60

This material and its container must be disposed of as hazardous waste.

2.3. Other hazards**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures

<b>BUTANONE</b>		60-100%
CAS-No.: 78-93-3	EC No.: 201-159-0	
Classification (EC 1272/2008) Flam. Liq. 2 - H225 EUH066 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classification (67/548/EEC) F;R11 Xi;R36 R66 R67	
<b>ETHANOL</b>		10-30%
CAS-No.: 64-17-5	EC No.: 200-578-6	
Classification (EC 1272/2008) Flam. Liq. 2 - H225	Classification (67/548/EEC) F;R11	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: FIRST AID MEASURES**4.1. Description of 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**

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

**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.

4.2. Most important symptoms and effects, both acute and delayed**General information**

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

**Inhalation.**

Vapours may cause headache, fatigue, dizziness and nausea. Irritation of nose, throat and airway.

**Ingestion**

May cause stomach pain or vomiting.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.



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### 4.3. Indication of any immediate medical attention and special treatment needed

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### **Extinguishing media**

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

### 5.2. Special hazards arising from the substance or mixture

#### **Hazardous combustion products**

In case of fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) may be formed.

#### **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.

### 5.3. Advice for firefighters

#### **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.

#### **Protective equipment for fire-fighters**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

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.

### 6.2. Environmental precautions

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

### 6.3. Methods and material for containment and cleaning up

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. Transfer to a container for disposal.

### 6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

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.

### 7.2. Conditions for safe storage, including any incompatibilities

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

#### **Storage Class**

Flammable liquid storage.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

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Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
BUTANONE	WEL	200 ppm	600 mg/m3	300 ppm	899 mg/m3	Sk
ETHANOL	WEL	1000 ppm	1920 mg/m3			

WEL = Workplace Exposure Limit.  
Sk = Can be absorbed through skin.

**8.2. Exposure controls****Protective equipment****Process conditions**

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

**Engineering measures**

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

**Respiratory equipment**

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Use respiratory equipment with gas filter, type AX.

**Hand protection**

Protective gloves must be used if there is a risk of direct contact or splash. For exposure of 1 to 4 hours use gloves made of: Butyl rubber. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. 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 splash-proof eye goggles to prevent any possibility of eye contact.

**Other Protection**

Wear appropriate clothing to prevent any possibility of skin contact.

**Hygiene measures**

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

Appearance	Clear liquid.
Colour	Colourless.
Odour	Characteristic. of solvents
Solubility	Slightly soluble in water.
Initial boiling point and boiling range	80 °C @ 760 mm Hg
Melting point (°C)	-86
Relative density	0.75 - 0.85 @ 20°C
Vapour density (air=1)	2.4
Vapour pressure	78 mmHg @ 20°C
Evaporation rate	> BuAc (BuAc=1)
Viscosity	0.3 - 1.0 mPas @ 20°C
Flash point	-6 CC (Closed cup).
Auto Ignition Temperature (°C)	515
Flammability Limit - Lower(%)	1.8 (%v/v)
Flammability Limit - Upper(%)	11.5 (%v/v)



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9.2. Other information**Volatility Description**

Volatile

**SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions**Hazardous Polymerisation**

Will not polymerise.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials**Materials To Avoid**

Strong acids. Strong alkalis. Strong oxidising substances. Strong reducing agents.

10.6. Hazardous decomposition products

None under normal conditions.

**SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**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.

**Eye contact**

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

**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicity**

The product is not expected to be hazardous to the environment.

12.1. Toxicity12.2. Persistence and degradability**Degradability**

No data available.

12.3. Bioaccumulative potential**Bioaccumulative potential**

No data available on bioaccumulation.

12.4. Mobility in soil

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### Mobility:

The product contains organic solvents which will evaporate easily from all surfaces.

### 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

### 12.6. Other adverse effects

None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product. Rags and the like, moistened with flammable liquids, must be discarded into designated fireproof bucket.

### 13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point.

### Waste Class

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

## SECTION 14: TRANSPORT INFORMATION

### 14.1. UN number

UN No. (ADR/RID/ADN)	1210
UN No. (IMDG)	1210
UN No. (ICAO)	1210

### 14.2. UN proper shipping name

Proper Shipping Name      PRINTING INK RELATED MATERIAL

### 14.3. Transport hazard class(es)

ADR/RID/ADN Class	3 - F1
ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR Label No.	3
IMDG Class	3
ICAO Class/Division	3
Transport Labels	



### 14.4. Packing group

ADR/RID/ADN Packing group	II
IMDG Packing group	II
ICAO Packing group	II

### 14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

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### 14.6. Special precautions for user

EMS F-E, S-D

Emergency Action Code 3YE

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **Uk Regulatory References**

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations.

#### **Guidance Notes**

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

#### **EU Legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC.

#### **Authorisations (Title VII Regulation 1907/2006)**

No specific authorisations are noted for this product.

#### **Restrictions (Title VIII Regulation 1907/2006)**

No specific restrictions of use are noted for this product.

#### **Water hazard classification**

WGK 1

### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

Revision Date 12/07/2012

Revision 11

Supersedes date 09/05/2009

SDS No. 10063

#### **Risk Phrases In Full**

R11 Highly flammable

R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

#### **Hazard Statements In Full**

EUH066 Repeated exposure may cause skin dryness or cracking.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

#### Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.