

SAFETY DATA SHEET

Black reodourised alkali-removable ink 1070

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME:	Black reodourised alkali-removable ink 1070
PART No.:	1070
APPLICATIONS:	Ink for Linx® CIJ printers
SUPPLIER: TEL: FAX:	Linx Printing Technologies plc Burrel Road ST IVES Cambridgeshire PE27 3LA UK +44 (0)1480 302100 +44 (0)1480 302116
EMERGENCY TELEPHONE(S):	USA only: 1-800-535-5053 (24 HOUR SERVICE)

2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	CONTENTS	HEALTH (class)	RISK (R No.)
BUTANONE	78-93-3	60-100 %	Xi	36, 66, 67
PROPAN-1-OL	71-23-8	5-10 %	Xi	41, 67
POTASSIUM THIOCYANATE	333-20-0	1-5 %	Xn	20/21/22, 32

COMPOSITION COMMENTS:

A mixture of colourants, resins, additives, and solvents.

3 HAZARDS IDENTIFICATION

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

4 FIRST AID MEASURES

GENERAL:	Get medical attention if any discomfort continues. Do not give victim anything to drink if he is 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:	Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.



EVEC.	
FYES.	

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

EXTINGUISHING MEDIA:	Fire can be extinguished using: Alcohol resistant foam. Carbon dioxide (CO2). Water spray, fog or mist. Powder.
SPECIAL FIRE FIGHTING PROCE	0
	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 H	AZARDS:
	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 M	EASURES
SPILL CLEANUP METHODS:	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Clean-up personnel should use respiratory and/or liquid contact protection. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area.
SPILL CLEANUP METHODS: 7 HANDLING AND STORAGI	personnel should use respiratory and/or liquid contact protection. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area.
	personnel should use respiratory and/or liquid contact protection. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area.
7 HANDLING AND STORAGE	 personnel should use respiratory and/or liquid contact protection. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Keep away from heat, sparks and open flame. Static electricity and formation of sparks must b 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 fire proof

INGREDIENT NAME	CAS No	STD	LT EXP	ST EXP
			(8 hrs)	(15 min)
BUTANONE	78-93-3	OES.	200 ppm(Sk)	300 ppm(Sk)
PROPAN-1-OL	71-23-8	OES.	200 ppm(Sk)	250 ppm(Sk)
POTASSIUM THIOCYANATE	333-20-0		No std.	No std.

INGREDIENT COMMENTS:

OES = Occupational Exposure Standard.





VENTILATION: RESPIRATORS: Provide adequate general and local exhaust ventilation. No specific recommendation made, but respiratory protection must be used if the general level exceeds the Occupational Exposure Level (OEL).



PROTECTIVE GLOVES:	Protective gloves must be used if there is a risk of direct contact or splash. Use protective
	gloves made of: Impermeable material.
EYE PROTECTION:	Wear approved safety goggles.
OTHER PROTECTION:	Wear appropriate clothing to prevent any possibility of skin contact.
HYGIENIC WORK ROUTINES:	DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating,
	smoking and using the toilet. No eating or drinking while working with this material.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Mobile. Liquid.	COLOUR:	Black.
ODOUR/TASTE:	Characteristic. Ketonic.		
SOLUBILITY DESCRIPTION:	Partially soluble in water.		
BOILING POINT (°C):	ca.80 @ 760mmHg	MELTING POINT (°C):	ca86
SPECIFIC GRAVITY (Water=1):	0.85 - 0.90 @ 20 °C	VAPOUR DENSITY (air=1):	ca.2.4
VAPOUR PRESSURE:	ca.78mmHg @ 20 °C	VOLATILITY DESCRIPTION:	Highly volatile.
EVAPORATION RATE:	>BuAc(BuAc=1)	pH-VALUE,CONC:	N/A
VISCOSITY:	2 - 5 mPas @ 25 °C	FLASH POINT (°C):	ca6
FLASH POINT METHOD:	CC (Closed cup).		
AUTO IGNITION TEMPERATURE (°C):	ca.515	FLAMMABILITY LIMIT (lower %):	ca. 1.8 (%v/v)
FLAMMABILITY LIMIT (upper %):	ca. 11.5 (%v/v)		

10 STABILITY AND REACTIVITY

STABILITY: CONDITIONS TO AVOID:	No particular stability concerns. Avoid heat. Avoid contact with oxidisers or reducing agents. Avoid contact with acids and alkalies.
HAZARDOUS POLYMERIZATION: HAZARDOUS DECOMPOSITION PRO	Will not polymerize. DUCTS:
	Fire creates: Asphyxiating gases/vapours/fumes of: Carbon dioxide (CO2). Carbon monoxide (CO). Nitrous gases (NOx).

11 TOXICOLOGICAL INFORMATION		
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:	Product has a defatting effect on skin.	
EYES:	May cause severe irritation to eyes. Vapour or spray may cause temporary (reversible) eye damage.	

12 ECOLOGICAL INFORMATION		
ENVIRONMENTAL HAZARDS:	Not regarded as dangerous for the environment (with reference to EU Directive 99/45/EC).	
13 DISPOSAL CONSIDERATIONS		

DISPOSAL METHODS:	Dispose of in accordance with Local Authority requirements. Absorb in vermiculite or dry sand,
	dispose in licensed special waste. Make sure containers are empty before discarding (explosion
	risk).



14 TRANSPORT INFORMATION				
LABEL FOR CONVEYANCE:	FLAMMABLE LIQUID			
ROAD:				
UN No:	1210			
HAZARD CLASS (ADR):	Class 3: Flammable liquids.	ADR CLASS No:	3	
ADR ITEM No:	5°(b)	HAZARD No. (ADR):	30	
MARGINAL:	2301	ADR LABEL No:	3	
HAZCHEM CODE:	3YE	CEFIC TEC(R) No:	30G30	
PROPER SHIPPING NAME I:	PRINTING INK			
RAIL:				
RAIL TRANSPORT CLASS No:	3	RAILROAD PT:	5°(b)	
SEA:				
UN SEA:	1210	SEA TRANSPORT CLASS No:	3.2	
IMDG Page No:	3272-1	SEA PACK GR:	II	
EmS No.:	3-05	MFAG Table No:	311	
MARINE POLLUTANT:	No.			
AIR:				
UN AIR:	1210	AIR TRANSPORT CLASS No:	3	
AIR PACK GR:	П			

15 REGULATORY INFORMATION

LABEL FOR SUPPLY:

LADEL FOR SUPPLY.			
	HIGHLY FLAMMABLE	IRRITANT	
RISK PHRASES:	R-11	Highly flammable.	
	R-36	Irritating to eyes.	
	R-66	Repeated exposure may cause skin dryness or cracking.	
	R-67	Vapours may cause drowsiness and dizziness.	
SAFETY PHRASES:	S-9	Keep container in a well ventilated place.	
	S-16	Keep away from sources of ignition - No Smoking.	
	S-25	Avoid contact with eyes.	
	S-26	In case of contact with eyes, rinse immediately with plenty of water and	
		seek medical advice.	
	S-37	Wear suitable gloves.	
	S-51	Use only in well ventilated areas.	
	S-60	This material and its container must be disposed of as hazardous	
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waste.

UK REGULATORY REFERENCES:	Classification, Packaging and Labelling Regulations 1984.
	The Control of Substances Hazardous to Health Regulations 1988.
	Chemicals (Hazard Information & Packaging) Regulations 1993.
STATUTORY INSTRUMENTS:	Chemicals (Hazard Information and Packaging) Regulations.
	Control of Substances Hazardous to Health.
APPROVED CODE OF PRACTICE:	Classification and Labelling of Substances and Preparations Dangerous for Supply.
	Safety Data Sheets for Substances and Preparations L62.
GUIDANCE NOTES:	Occupational Exposure Limits EH40.
	Introduction to Local Exhaust Ventilation HS(G)37.
	CHIP for everyone HSG(108).

16 OTHER INFORMATION

INFORMATION SOURCES:	Dangerous Properties of Industrial Materials Report, N.Sax et.al. Croner's: Dangerous Substances. Material Safety Data Sheet, Misc. manufacturers.		
REVISION COMMENTS:	Initial issue on new system		
ISSUED BY:	Paul Doody		
REVISION DATE:	01 July 2000		
REVISION No. /REPLACES SDS ISSUED:			
	Initial Issue		
SDS No.:	MP80020		

DISCLAIMER

The information contained in this safety data sheet relates only to the specific material designated, and it may not be valid if the material is used in combination with any other materials. 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. However, no warranty, guarantee, or representation is made as to its accuracy, reliability, or completeness. This safety data sheet provides guidance on health, safety, and environmental aspects of the product and should not be construed as any guarantee of technical performance, or suitability for particular applications. 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.