

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product: ink used to fill OB-I0050 BL cartridge

Supplier: Supplies Team

Address: Sheffield Airport Business Park, Europa Link, Sheffield, S9 1 XU

Information Phone: 0114 256 6000

2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS No.	Chemical Family	Conc. Range	R-phrases	Symbol letter
- -	Pyrrolidone Solvent	0.1 - 8 %	R36/38	Xi
67-63-0	Isopropanol	0.1 - 4 %	R11-36-67	Xi, F

For full text see Section 16

EXPOSURE LIMITS (ACGIH 1993-1994)

American Conference of Governmental Industrial Hygienists

TLV: Threshold Limit Value TWA: Time Weighted Average STEL: Short Term Exposure Limit

CAS No.	Chemical Family	TLV-TWA		TLV-STEL	
		(ppm)	(mg/m ³)	(ppm)	(mg/m ³)
67-63-0	Isopropanol	400	999	500	1250

3. HAZARDS IDENTIFICATION

The product is not classified as dangerous. It contains irritant organic solvents.

4. FIRST AID MEASURES

General:

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation:

Remove to fresh air, keep the patient warm and rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.

Eye contact:

Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.

Skin contact:

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do not use solvents or thinners.

Ingestion:

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting.

5. FIRE FIGHTING MEASURES

Extinguishing media:

Recommended: alcohol resistant foam, CO₂, powder, water spray/mist.

Not to be used: water jet.

Recommendations:

Fire will produce dense black smoke containing hazardous products of combustion (see section 10).

Decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or watercourses.

6. ACCIDENTAL RELEASE MEASURES

Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Refer to protective measures listed in Sections 7 and 8. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Do not allow entering drains or watercourses.

Clean preferably with a detergent; avoid the use of solvents.

7. HANDLING AND STORAGE

Handling:

Keep the container tightly closed. Exclude sources of heat and open flame.

Avoid skin and eye contact.

Smoking, eating and drinking should be prohibited in areas of storage and use.

For personal protection, see Section 8.

To avoid contamination always keep in containers made of the same material as the supply container.

Storage:

Store between 5 and 35 °C in a dry, well-ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers that are opened should be properly resealed and kept upright to prevent leakage. Store separately from oxidizing agents and strongly alkaline and strongly acidic materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures:

Provide adequate ventilation.

Personal protection:

All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet good industrial practice.

Respiratory protection:

Not required at normal use temperatures.

Hand protection:

Rubber and PVC gloves. Barrier creams may help to protect exposed areas of the skin but are not substitutes for full physical protection.

Eye protection:

Eye protection designed to protect against liquid splashes should be worn.

Skin protection:

Cotton or cotton/synthetic overalls or coveralls are normally suitable.

Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Flash point: N.A.

Vapour density: Heavier than air

Solubility in water: Completely miscible

10. STABILITY AND REACTIVITY

Stable under the recommended storage and handling conditions. (See section 7). In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen and acrylic monomers may be produced.

Keep away from oxidizing agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.

11. TOXICOLOGICAL INFORMATION

There is no data available on the product itself.

- -	Pyrrolidone Solvent	LD50 (oral/rat)	6500 mg / kg
67-63-0	Isopropanol	LD50 (oral/rat)	>2000 mg / kg

12. ECOLOGICAL INFORMATION

There is no data available on the product itself. The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface waters.

67-63-0	Isopropanol	Toxicity in fishes	LC50	9600 mg / kg
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13. DISPOSAL CONSIDERATIONS

The product (ink) should not be allowed to enter drains or watercourses, or disposed of ground or surface water may be affected. Wastes, including empties cartridges are controlled wastes and should be disposed of in accordance with local regulations. Recommended crushing or other means to prevent unauthorized reuse of containers.

14. TRANSPORT INFORMATION

The product is not classified as dangerous for transport purposes.

15. REGULATORY INFORMATION

This product is classified and labelled for supply as follows:

The product is determined as not being dangerous.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks as required by other health and safety legislation.

16. OTHER INFORMATION

Text of R-phrases listed in Section 2

Symbol letter: (Xi) IRRITANT
(F) FLAMMABLE

R-phrases: R11. - Highly flammable.
R36. - Irritating to eyes.
R36/38. - Irritating to eyes and skin.
R67. - Vapours may cause drowsiness and dizziness.

The information contained in this safety data sheet is provided in accordance with the requirements of the regulations. The product as contained within an inkjet cartridge and used according to normal usage, doesn't present environmental or health risks. The cartridge should not be treated in such a way as no ink spills into the environment without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of this product are outside the supplier's control, the user is responsible for ensuring that requirements of relevant legislation are complied with.

The information contained herein is for health and safety guidance only and does not constitute a specification. It is, to the best of our knowledge and belief, accurate. However since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the end user to comply with all applicable laws and regulations.

Nothing contained herein is to be construed as a recommendation for use in violation of any patents or of applicable laws or regulations.