



MATERIAL SAFETY DATA SHEET

COLORIFIC BIO INK

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Revision nr : 1

Date : 7/02/2009

Supersedes : 0/0/0

ISPA

www.lisam.com

Producer

Colorific Ink
2 Rue Principale
68230
Zimmerbach
France
Tel: +33 662735433
Email: msds@colorificink.eu

Responsible for distribution

IGS UK
3 The Quadrant
Maidenhead
Berkshire
United Kingdom
Tel: +44 1628 674278
Email: colorific@igsuk.net

1. Identification of the product and the company

Identification of the product : Liquid.
Company identification : See producer
Trade name : Colorific BIO Ink
Use : Industrial

2. Information on ingredients

This product is considered to be hazardous and contains hazardous components.

| Substance name | Value(s) | CAS nr / EINECS nr / EC index | Symbol(s) | R-Phrase(s) |
|--------------------------|----------|-----------------------------------|-----------|-------------|
| LACTIC ACID PROPYL ESTER | 10-30% | EINECS: 210-464-8 CAS: 616-09-1 | Xi | R41 |
| LACTIC ACID BUTYL ESTER | 5-10% | EINECS: 252-036-3 CAS: 34451-19-9 | Xi | R38, R41 |
| 2-BUTOXYETHYL ACETATE | 30-50% | EINECS: 203-933-3 CAS: 112-07-2 | Xn | R20/21 |

The remaining ingredients including the dyes do not present a health hazard within the meaning of the EC/ CHIP regulations.

3. Hazards identification

Risk Phrases : R20: Harmful by inhalation, R21: Harmful in contact with skin
R38: Irritating to skin, R41: Risk of serious damage to eyes
Primary route of exposure : Skin contact. Inhalation.
Main Health Hazards:
Not expected to present any hazards to health under normal conditions of expected use.

4. First aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.



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5. Fire - fighting measures

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Exposure hazards: In combustion emits toxic fumes.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. Accidental release measures

Mop or soak up spillage's in absorbent material. Dispose of in accordance with Local Authority Regulations.

7. Handling and storage

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight.

Suitable packaging: Store in original container.

8. Exposure controls / personal protection

Hazardous ingredients: 2-BUTOXYETHYL ACETATE

WEL (8 hr TWA): 20 ppm WEL (15 min STEL): 50 ppm

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Gloves (solvent-resistant).

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

9. Physical and chemical properties

State: Liquid

Odour: Characteristic odour

Solubility in water: Insoluble

Flash point°C: 67

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10. Stability and reactivity

Stability: Stable under normal conditions.
Conditions to avoid: Heat.
Materials to avoid: Strong oxidising agents. Strong acids.
Haz. decomp. products: In combustion emits toxic fumes.

11. Toxicological information

| | | |
|--------------------------|--------------------------------------|--------------------------|
| LACTIC ACID PROPYL ESTER | ORL RAT LD50 >2000 mg/kg | SKN RAT LD50 >2000 mg/kg |
| LACTIC ACID BUTYL ESTER | IHL RAT LC50 >5140 mg/m ³ | ORL RAT LD50 >5000 mg/kg |
| 2-BUTOXYETHYL ACETATE | ORL MUS LD50 3200 mg/kg | ORL RAT LD50 2400 mg/kg |

12. Ecological information

| | |
|--------------------------|---|
| LACTIC ACID PROPYL ESTER | ALGAE 48H EC50 2310 mg/l - DAPHNIA 48H EC50 449 mg/l - FISH 96H LC50 168 mg/l |
| LACTIC ACID BUTYL ESTER | ALGAE 48H EC50 0.93 g/l - DAPHNIA 48H EC50 423 mg/l - FISH 96H LC50 75 mg/l |

13. Disposal considerations

Disposal operations: Dispose of this product as hazardous waste using an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations.
Disposal of packaging: Packaging should be treated as any residual chemical.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. Transport information

Shipping name: NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

15. Regulatory information



Harmful

Hazard symbols: Harmful

Risk phrases: R20/21: Harmful by inhalation and in contact with skin. R41: Risk of serious damage to eyes.

Safety phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. Other information

This safety data sheet has been updated to comply with CHIP regulations. The information is based solely on the data provided by the suppliers of the materials used and/or recognised technical sources, not on the mixture itself and is believed to be correct as of this date. No warranty is expressed or implied regarding the accuracy of the data. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

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