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Material Safety Data Sheet - Lyson Ink

SolventJET II Manual

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION, REVISION NUMBER AND DATE

Product Name : TIARA OPAL INKS (BLACK, CYAN, MAGENTA , YELLOW, RED & BLUE)
 Product Code : TS/O-(K,C,M,Y,R,B)***/**
 Revision No : A
 Date : 04/02

2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS (nl - not listed in CHIP)

| Chemical Name | % | CAS Number | TSCA Listed | EC No | Hazard Symbol | Risk Phrases |
|---------------------------|---------|------------|-------------|-----------|------------------|--------------|
| 2-Butoxyethyl Acetate | 25 - 55 | 112-07-2 | ✓ | 203-933-3 | St Andrews Cross | R20/21 |
| Lactic Acid Propyl Ester | 20 - 30 | 616-09-1 | ✓ | 210-464-8 | St Andrews Cross | R41 |
| Acetic Acid n-Hexyl Ester | < 50 | 142-92-7 | ✓ | 205-372-7 | None req'd | R10 |

R10 = Flammable; R20/21 = Harmful by inhalation and in contact with the skin; R41 = Risk of serious damage to eyes.
 The remaining ingredients, including the dye, do not present a health hazard within the meaning of the EC/CHIP2 regulations.

3. HAZARDOUS IDENTIFICATION

Classification (CHIP) : Harmful and Irritant

Main Health Hazards : Risk of serious damage to eyes, irritating to eyes and skin.

Not expected to present any hazards to health under normal conditions of expected use.

4. FIRST AID

Inhalation : Remove casualty to fresh air.

Skin Contact : Wash from skin using soap and water.

Eye Contact : Flush thoroughly with water. If soreness or redness persists, seek medical attention.

Ingestion : DO NOT induce vomiting, encourage casualty to drink water. Seek medical advice.

5. FIRE FIGHTING MEASURES

Flammability : Product is not classed as flammable.

Combustion products : Oxides of Carbon.

Extinguishing media : In the event of a fire use CO₂, Foam, Dry Powder, or Vapourising Liquid.

Do not use :

6. ACCIDENTAL RELEASE MEASURE

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

7. HANDLING AND STORAGE

Handling : Avoid prolonged skin contact. Wear gloves and safety glasses if splashing is likely.

Fire Prevention : Avoid heat and sources of ignition

Storage : Normal cool warehouse conditions. Keep in closed container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection : Keep work area well ventilated.

Eye and Skin protection : Wear safety glasses and gloves if splashing is likely.

OCCUPATIONAL EXPOSURE LIMITS :

| Substance listed in EH40/- | Long term (8 Hrs) | | Short term (10 min) | |
|-------------------------------|-------------------|--------------------------------------|---------------------|-------------------|
| | ppm | mg/m ³ | ppm | mg/m ³ |
| 2-Butoxyethyl Acetate | | 25 | | |
| Lactic Acid Propyl Ester | | Not assigned by HSE (1) or ACGIH (2) | | |
| Acetic Acid n-Hexyl Ester | | 5 | | |

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9. PHYSICAL AND CHEMICAL PROPERTIES (n.d.a = No data available)

| | | |
|---------------------------------------------------|----------------------------------|-------------------------|
| Form : Coloured liquid | pH : n/a | Boiling Point: ~ 178 °C |
| Flashpoint : - 66 - 71°C | Melting Point : ~ -40 °C | |
| Vapour Pressure : ~0.7 mm Hg @ 20°C | Vapour Density : > 1.0 (Air = 1) | |
| Solubility in Water : Partially miscible in water | Density : Approx. 1.0 | |
| Autoignition Point : -350 °C | Explosive Limits: Lower - n.d.a. | |

10 STABILITY AND REACTIVITY

Chemical reactivity : Stable under normal conditions
 Decomposition products : None known
 Materials / conditions to avoid : None

11. TOXICOLOGICAL INFORMATION

LD₅₀ : Acute / oral / rat : > 2500mg/kg

12. ECOLOGICAL INFORMATION

2-Butoxyethyl Acetate: Readily biodegradable
Lactic Acid Propyl Ester: Readily biodegradable; Bioaccumulation unlikely LC₅₀/96h/Fish = 150mg/l; EC₅₀/96h/Algae = 1000mg/l
Acetic Acid n-Hexyl Ester: Readily biodegradable; not classed as dangerous to the environment.

13. DISPOSAL CONSIDERATIONS

Consult Local Authority for regulations regarding waste disposal

14. TRANSPORT REGULATIONS

| | |
|----------------------------------|--------------------------------|
| Proper shipping name : | Packing group : Not applicable |
| UN Number : Not applicable | IMDG class : Not applicable |
| IMDG code : | RID/ADR : Not applicable |
| ICAO/IATA class : Not applicable | Hazard warning sign : |
| Marine pollutant : | |

15. REGULATORY INFORMATION

| | | | |
|------------------|------------------|---------------------------|-------------------------------------|
| CHIP labelling - | Symbol : | Hazard : Harmful | Contains : Lactic Acid Propyl Ester |
| | St Andrews Cross | Risk phrases: R20/21, R41 | 2-Butoxyethyl Acetate |
| | | Safety phrases : S25 | |

Other suggested labelling : R20/21 = Harmful by inhalation and in contact with the skin; R41 = Risk of serious damage to eyes
 S25 = Avoid contact with eyes

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.

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