

Material Safety Data Sheet

(EC 1907/2006)

General Environmental and Safety Information for Handling

1. Identification of the substance / preparation and of the company / undertaking

Product Name: Sublisplash Sublimation Ink - Cyan

First issued: 1.10.2013, Version 1.05

Use: Inkjet printing ink

Company address: **Print Equipment GmbH & Co. KG**

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2. Hazards identification

This material is not classified as hazardous under regulation (EC) No 1272/2008

This material has no hazard or labelling classification according to EU directives 76/548/EEC or 199/45/EC

3. Information on composition/ingredients

General description Mixture consisting of pigment(s) in aqueous media.

Hazardous ingredients Hazards shown below refer to named substance.

Diethylene Glycol, (2,2-oxybisethanol) 5-15%

CAS: 111-46-6

EC number: 203-872-2

REACH registration number: 01-2119457857-21-xxxx

Hazard classification, (DPD)

Xn R22 Harmful if swallowed.

Xn R48/R22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Hazard classification (CLP)

H302 Acute tox. 4 Harmful if swallowed.

H373 STOT RE2 May cause damage to organs through prolonged or repeated exposure.

4. First Aid Measures

General First Aid

Seek medical advice if any symptoms arise apparently due to contact with this product.

Skin contact

After contact with skin, wash with plenty of water or soap and water. If irritation persists, or there is any sign of tissue damage, seek medical advice. Remove contaminated clothing and wash before re-use.

Eye contact

In case of contact with eyes rinse immediately with plenty of water for at least 15 minutes. Seek medical advice.

Inhalation

If symptoms due to inhalation are observed, remove person to fresh air. If symptoms persist, seek medical advice.

Ingestion

If swallowed, rinse mouth with plenty of water and give water to drink. Do not induce vomiting. Seek medical advice.

5. Fire-fighting measures

General fire-fighting

This product is not considered a fire hazard

Extinguishing media

Water spray, foam, dry chemical, CO₂.

Special exposure hazards

May decompose if involved in a fire, releasing irritant/toxic fumes.

Protective Equipment

Under fire conditions wear full protective clothing and self contained breathing apparatus

6. Accidental Release measures

Personal protection

Contact with skin and eyes should be avoided. Wear impervious gloves and safety glasses or goggles.

Environmental protection

It is not anticipated that this product poses any significant environmental hazards. However, as a matter of good practice, prevent entry of liquid into sewers and water courses

Disposal

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Absorb on sand or earth and place in container for safe disposal. Containers should be sealed and labelled. Flush away any traces which cannot be recovered by other means with copious amounts of water, and detergent if available. Remove container of waste material to disposal site.

7. Handling and storage

Handling

Follow proper standards of industrial hygiene. Avoid contact with skin and eyes,

Storage

Container should be kept sealed and stored in cool dry conditions

Avoid temperatures above 40°C and below 5°C. Do not freeze.

8. Exposure controls/personal protection

Exposure Guidelines

Component with work place exposure limits 2,2-oxbisethanol (Diethylene glycol) CAS 111-46-6

Derived no effect level (DNEL)

Workers, long term - systemic effects, Skin contact	2120mg/kg
Workers, long term - local effects, inhalation	1200mg/m ³
Consumers, long term – systemic effects, Skin contact	1060mg/kg
Consumers, long term - local effects, inhalation	720mg/m ³
EH40 WEL time weighted average (TWA)	460ppm 2020mg/m³

Predicted no effect concentration (PNEC)

Not determined

Exposure controls

Refer to protective measures listed in sections 7 and 8

Personal protection

Respiratory protection

In the event of inadequate ventilation: wear suitable respirator conforming to EN405 FFABE1P2SL standard.

Hand protection

Liquid resistant gloves are recommended to minimise skin contact.

Eye protection

Wear suitable eye protection such as goggles conforming to EN 166/5.

Skin protection

Work overalls. Limited splash protection coveralls conforming to EN 340 complex design Cat.3, Type 5 & 6. Wash hands and face thoroughly with mild soap before eating and drinking.

Environmental exposure controls:

This product should be used in accordance with national and international regulations and following the principles of BAT (best Available Technique). See also section 16.

9. Physical and chemical properties

Physical form Low viscosity Liquid

Colour Cyan / Odour Feint

PH 7-10

Boiling point/boiling range	90-100°C
Melting point/melting range	not applicable
Flash point	not considered flammable
Flammability	not considered flammable
Autoflammability	not considered flammable
Explosive properties	none known
Oxidizing properties	none known
Vapour pressure	not known
Relative density	1g/cm ³
Water solubility	miscible
Fat solubility	not known
Partition coefficient (n-octanol/water)	not known

10. Stability and reactivity

Stability of substance

Stable under normal conditions.

Conditions to avoid

Avoid temperatures above 40°C and below 5°C. Conditions outside of this range may affect the stability of the product and render it unfit for purpose but should not pose a health hazard.

Materials to avoid

Strong reducing agents.

Oxidizing agents such as chlorates, bromates and nitrates

Hazardous decomposition products

The substances arising from the thermal decomposition of this product cannot be accurately predicted. Any fumes are potentially irritant/toxic and suitable protection should be worn.

11. Toxicological Information

General toxicology

This information has been determined by consideration of the toxicological data for the components and for analogous products.

Skin contact

May cause slight irritation but not significant for classification

Acute dermal toxicity LD50 13300mg/kg (rabbit) (derived from data relating to ingredients)

Eye contact

May cause slight irritation but not enough to signify classified by the conventional method

Inhalation

No data available

Ingestion

Acute oral toxicity LD50 22400mg/kg (human) (derived from data relating to ingredients)

12. Ecological information

General ecological information

The contamination of rivers and soil should be avoided.

Mobility

The pigment in this dispersion is virtually insoluble in water. It will be largely removed from waste water in biological effluent treatment plants by Filtration and absorption. It will accumulate in the resulting sludge, which should be treated accordingly.

Persistence

No data available

Ecotoxicity

No data available

Water pollution class (WGK) Class 2 (contaminating)

(VwVwS group classification)

WGK = classification in accordance with German Water Resources Act.

AOX :None

Heavy water contact

This product does not contain heavy metals as part of its structure. Any present will be in trace quantities in line with the ETAD limits for heavy metals in dyestuffs.

Ecological information on ingredients

Coloured ink: Acute toxicity to fish, Limit test LC₅₀:>100 mg/L

Activated Sludge Respiration Inhibition: EC₅₀:> 1000 mg/L

13. Disposal considerations

Product disposal

Removed material and / or unwanted product should be disposed of in accordance with local regulations.

Disposal of unclean containers

Consider local reuse or recycling. If this is not possible, dispose of as for product.

14. Transport information

This product is not classified as dangerous for transport.

Keep separated from foodstuffs.

UN No -

CDG-CPL classification -

IMDG-Code -

ADR/RID -

ICAO/IATA –

15. Regulatory information

This safety datasheet complies with the requirement of Regulation (EC) No. 1907/2006 (REACH).

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Other EU regulations:

Black list chemicals Not listed.

Priority list chemicals Not listed.

Integrated pollution prevention and control list (IPPC) – Air Not listed.

Integrated pollution prevention and control list (IPPC) – Water Not listed

Regulatory references, EC

This preparation is not classified according to the dangerous preparations directive 99/45/EC and its Adaptations.

S60 however it is good practice not to dispose of this product into the sewerage system.

Regulatory references, UK

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This product is not classified according to the Chemicals (Hazard Information AND Packaging for Supply) Regulations 2002 (CHIP3)

Regulatory references, Germany

VwVwS Annex reference: Water hazard class (WGK)1, low hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance implementing the Federal Immission control Act-12.BImSchV: Is not subject of the 12 BImSchV (Hazardous Incident Ordinance)

Chemical Safety Assessment:

Safety, health and environmental regulations/legislation specific for the substance or mixture
Europe Inventory (ELINCS): All components are listed or exempted.

16. Other information

Other information

This safety data sheet has been prepared in accordance with the requirements of the data sheet directive 91/155/EEC and its Amendments.

Environmental Legislation

Environmental Protection Act 1990

Water Resources Act 1991

Special Waste Regulations 1996

Integrated Pollution Prevention and Control, 96/61/EEC

Hazardous Waste Directive, 91/689/EEC.

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with legal regulation.

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

End of data sheet.