

**Ink Tahoe Blue**

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Ink Tahoe Blue**

Product group: Ink

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Inkjet printing

1.3. Details of the supplier of the safety data sheet

Company name:	Francotyp-Postalia GmbH	
Street:	Triftweg 21-26	
Place:	D-16547 Birkenwerder	
Telephone:	+49 - 3303 /525-0	Telefax: +49 - 3303 /525-799
e-mail:	info@francotyp.com	
Responsible Department:	IFZ Ingenieurbüro und Consulting GmbH	
	Telephone: +49 - 30 / 2904897-10	
	Telefax: +49 - 30 / 2904897-20	

1.4. Emergency telephone number:**Internationale Hotline: +49 6131 / 19240****Further Information**

Apply Safety data sheet to the following products:

Part-No.

58.0032.0143.00

58.0032.0144.00

58.0033.3371.00

58.0033.3372.00

58.0038.3147.00

58.0038.3148.00

58.0038.3153.00

58.0038.3185.00

58.0038.3188.00

58.0038.3309.00

58.0052.3026.00

58.0052.3036.00

58.0052.3056.00

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

This mixture is not classified as dangerous according to Directive 1999/45/EC.

As an article the product does not need to be labelled in accordance with EC-directives or respective national laws.

2.2. Label elements**S phrases**

02	Keep out of the reach of children.
23	Do not breathe vapour.

Additional advice on labelling

As an article the product does not need to be labelled in accordance with EC-directives or respective national laws.



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2.3. Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Aqueous solution of chemicals, contains alkyldiol (< 5 %)

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
210-483-1	2-Pyrrolidone	< 10 %
616-45-5	Xi - Irritant R36/38	
	Eye Irrit. 2; H319	

Full text of R and H phrases: see Section 16.

Further Information

This ink supply contains an aqueous ink formulation.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

If symptoms persist, call a physician. Never give anything by mouth to an unconscious person.

After inhalation

Move out of dangerous area. Move to fresh air. Lay the affected person down, and keep her or him warm and calm. If symptoms persist, call a physician.

After contact with skin

Take off contaminated clothing and shoes immediately. Wash contaminated skin areas thoroughly with soap and water. Do not use solvents or thinners.

After contact with eyes

Remove contact lenses, if applicable. Rinse with plenty of water immediately, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

After ingestion

If swallowed, seek medical advice immediately and show this container or label. Lay the affected person down, and keep her or him warm and calm.

4.2. Most important symptoms and effects, both acute and delayed

None known.

4.3. Indication of any immediate medical attention and special treatment needed

None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂), alcohol-resistant foam, dry powder, water spray.
Water mist may be used to cool closed containers.

Extinguishing media which must not be used for safety reasons

None known.

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5.2. Special hazards arising from the substance or mixture

Under conditions giving incomplete combustion, hazardous gases produced may consist of: Nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂), various hydrocarbons. Risk of formation of toxic pyrolysis products.

5.3. Advice for firefighters

Prevent extinguishing water used by the fire department, or any other forms of the diluted product, from ending up in surface water or drinking water reservoirs. Do not let product enter drains.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Do not breathe in vapours.

6.2. Environmental precautions

Contact the responsible authority immediately if the product ends up in the soil, a body of water, or the sewer system.

6.3. Methods and material for containment and cleaning up

Do not let product enter drains. Spilled or leaking material is to be soaked up with non-flammable absorbent materials (sand, soil, diatomaceous earth) and put in containers. Dispose of as described in section 13.

6.4. Reference to other sections

See also section 7, 8.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Keep container tightly closed. Protect against extreme heat or cold weather. Avoid contact with skin and eyes. When using, do not eat, drink, or smoke. Wash hands before breaks and at the end of the workday. Keep out of the reach of children.

Advice on protection against fire and explosion

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Keep away from open flames, hot surfaces, and sources of ignition.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep away from heat and sources of ignition.

Advice on storage compatibility

Store separately from: Oxidising agents, strong bases

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****8.2. Exposure controls****Protective and hygiene measures**

Do not eat, drink, smoke or take snuff at work. Avoid contact with skin and eyes. Wash hands before breaks and at the end of the workday. Apply lotion to hands afterwards. Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use.

Respiratory protection

Not applicable

Eye protection

In case of risk of splashing, wear protective glasses.



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Skin protection

Wear protective clothing, in order to avoid eye and skin contact as far as possible.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	blue	
		Test method
pH-Value:		8
Changes in the physical state		
Boiling point:		n.d.
Flash point:		> 93 °C P/M Pensky-Martens
Flammability		
Solid:		n.d.a.
Gas:		n.d.a.
Lower explosion limits:		n.a.
Upper explosion limits:		n.a.
Ignition temperature:		n.d.
Auto-ignition temperature		
Solid:		n.d.a.
Gas:		n.d.a.
Vapour pressure:		n.d.
Density:		1 g/cm ³
Water solubility:		miscible
Viscosity / dynamic:		2 mPa·s

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable at normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Stable at normal conditions. See section 7.

10.5. Incompatible materials

Incompatible with strong bases and oxidising agents.

10.6. Hazardous decomposition products

See section 5

SECTION 11: Toxicological information

11.1. Information on toxicological effects



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Acute toxicity

No data is available on the product itself.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
616-45-5	2-Pyrrolidone				
	oral	LD50 mg/kg	>3200	rats	IUCLID
	dermal	LD50 mg/kg	>2000	rabbit	

Irritation and corrosivity

May cause eye/skin irritation.

2-Pyrrolidone: May cause eye/skin irritation. Irritation of the respiratory tract

Alkyldiol: May cause eye/skin irritation. Irritation of the respiratory tract

Sensitising effects

None known.

Carcinogenic/mutagenic/toxic effects for reproduction

None known.

SECTION 12: Ecological information**12.1. Toxicity**

No data is available on the product itself.

2-Pyrrolidone:

Toxicity to bacteria: EC50 Pseudomonas putida > 10000 mg/l/17 h (literature value)

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	h	Species	Source
616-45-5	2-Pyrrolidone					
	Acute fish toxicity	LC50	>4600 mg/l	96	Danio rerio	
	Acute algae toxicity	ErC50	250 mg/l	72	Desmedesmus subspicatus	
	Acute crustacea toxicity	EC50	13,2 mg/l	48	Daphnia magna	

12.2. Persistence and degradability

No data is available on the product itself.

12.3. Bioaccumulative potential

No data is available on the product itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
616-45-5	2-Pyrrolidone	-0,71

12.4. Mobility in soil

No data is available on the product itself.

12.5. Results of PBT and vPvB assessment

Not applicable

12.6. Other adverse effects

No data is available on the product itself.

Further information

In the case of appropriate handling and use no ecological problems are to be expected.

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SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Do not let product enter drains. Disposal in accordance with the official regulations.

SECTION 14: Transport information**Land transport (ADR/RID)****Other applicable information (land transport)**

Not classified as dangerous regarding transport regulations.

Inland waterways transport (ADN)**Other applicable information (inland waterways transport)**

Not classified as dangerous regarding transport regulations.

Marine transport (IMDG)**Other applicable information (marine transport)**

Not classified as dangerous regarding transport regulations.

Air transport (ICAO)**Other applicable information (air transport)**

Not classified as dangerous regarding transport regulations.

14.5. Environmental hazards

Dangerous for the environment: no

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

1999/13/EC (VOC): VOC value (g/l): < 191 g/l

National regulatory information**SECTION 16: Other information****Changes**

Section 1

Abbreviations and acronyms

n.a. = not applicable

n.d. = not determined

n.d.a. = No data available.

Full text of R phrases referred to under Sections 2 and 3

36/38 Irritating to eyes and skin.

Full text of H statements referred to under Sections 2 and 3

H319 Causes serious eye irritation.



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Further Information

The information is based on present levels of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The product is to be used exclusively for the applications named in the technical leaflet or in the processing instructions.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)