

09/01/2009

Revision date: 09/01/2009

1 Identification of substance:

- **Product details:**
- **Trade name:** *INK, TWP-1 Black, TWP-3 Green, TWP-4 Bright Blue, TWP-Conditioner, TWP-GB Blue*
- **Product number:**
2601016F
2600921F
2600169F
2600928F
2600935F
- **Application of the substance / the preparation** *Printing inks*
- **Manufacturer/Supplier:**
FoxJet, an ITW Company
1 Missouri Research Park Drive
St. Charles, MO 63304-5685
-
- Customer Sales & Service:*
800-369-5384 USA
636-300-2188 FAX
- **Information Department:** *Email: email@foxjet.com*
- **Emergency information:**
Contact Infotrac: (800) 535 5053 (US only)
International: +1 352 323 3500

2 Composition/Data on components:



- **Chemical characterization**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

- **Dangerous components:**

107-21-1	ethylene glycol	5-20%
112-34-5	diethylene glycol monobutyl ether	5-20%

- **Additional information** *For the wording of the listed risk phrases refer to section 16.*

3 Hazards identification

- **Hazard description:** *not applicable*
- **Information pertaining to particular dangers for man and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA Ratings (scale 0-4)**

 - Health = 1*
 - Fire = 1*
 - Reactivity = 0*
- **HMIS Rating (scale 0-4)**

 - Health - 1*
 - Flammability - 1*
 - Reactivity - 0*
- **Routes of Entry** *Ingestion*
- **Target Organs** *None known*
- **Irritancy** *None known*

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- **Sensitizing Capability** None known
- **Reproductive Effects** None known
- **Cancer Information** Not known to be carcinogenic.

4 First aid measures

- **General information** No special measures required.
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact** Generally the product does not irritate the skin.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing**
If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Wear chemical resistant goggles and gloves when handling.
Wash hands thoroughly after handling.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Maximum storage temperature:** 120 F (49 C)
- **Minimum storage temperature** 35 F (2 C)

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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· Components with limit values that require monitoring at the workplace:

107-21-1 ethylene glycol

TLV	Short-term value: C 100 mg/m ³
	H

- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves.

- **Material of gloves**
Butyl rubber, BR
Nitrile rubber, NBR
Natural rubber, NR
PVA gloves
Neoprene gloves
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Not suitable are gloves made of the following materials:**
Leather gloves
PVC gloves
- **Eye protection:** Goggles recommended during refilling.

9 Physical and chemical properties:

· General Information

Form:	Liquid
Color:	According to product specification
Odor:	Characteristic

· Change in condition

Melting point/Melting range:	undetermined
Boiling point/Boiling range:	100°C (212°F)

· Flash point:	98°C (208°F)
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· Ignition temperature:	225°C (437°F)
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· Auto igniting:	Product is not selfigniting.
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· Danger of explosion:	Product does not present an explosion hazard.
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· Explosion limits:

Lower:	0.9 Vol %
Upper:	53.0 Vol %

· Vapor pressure at 20°C (68°F):	23 hPa (17 mm Hg)
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· Density at 20°C (68°F):	1.03 g/cm ³
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· Solubility in / Miscibility with Water:	Fully miscible
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· Solvent content:	
Organic solvents:	20 %

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Water:	74 %
· Solids content:	6 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation** Comply with all Federal, State, and Local regulations regarding disposal.
- **Uncleaned packagings:**
- **Recommendation:**
Disposal must be made according to official regulations.
Comply with all Federal, State, and Local regulations regarding disposal.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **DOT regulations:**
- **Hazard class:** -
Non-regulated Material
- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -

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- **Maritime transport IMDG:**
 - **IMDG Class:** -
 - **Marine pollutant:** No
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- **Air transport ICAO-TI and IATA-DGR:**
 - **ICAO/IATA Class:** -

15 Regulations

- **Cancerogenity categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

107-21-1 ethylene glycol

A4

- **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

All ingredients are listed

- **OSHA-Ca (Occupational Safety & Health Administration)**

All ingredients are listed.

- **Product related hazard information:**

Observe the general safety regulations when handling chemicals
The product is not subject to identification regulations according to directives on hazardous materials.

- **Safety phrases:**

Do not empty into drains.

- **National regulations**

- **Other regulations, limitations and prohibitive regulations**

- **OSHA Regulations**

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed
OSHA Specifically Regulated Substance (29 CFR 1910.): Not listed

- **Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III, Section 313:**

107-21-1 ethylene glycol

112-34-5 diethylene glycol monobutyl ether

- **CONEG:**

BLACK INK ONLY:

Lead (Pb) < 10ppm

Mercury (Hg) < 5 ppm

Hexavalent Chromium (Cr+6) < 10 ppm

Total Bromine (Br) < 10 ppm

Cadmium (Cd) < 10 ppm

ALL COLORS EXCEPT BLACK

This product has not been tested for heavy metals covered under the various CONEG laws. However, raw materials used to make this product do not contain mercury, lead, cadmium, or hexavalent chromium and none are added during manufacture.

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· **Toxic Substances Control Act TSCA Status:**

All components of this product are listed in the EPA's Inventory of Chemical Substances as required under the Toxic Substances Control Act (TSCA).

· **California Proposition 65 (Chemicals known to cause cancer):**

This product contains no ingredients on the California Proposition 65 List known to cause cancer.

· **California Proposition 65 (Chemicals known to cause reproductive toxicity):**

This product contains no ingredients on the California Proposition 65 known to cause reproductive toxicity.

This product contains no ingredients on the California Proposition 65 known to cause reproductive toxicity.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS:** Chemistry

· **MSDS Created By:** Peter Gimse

· **File:** 218

· **Revision Information (All previous revisions obsolete):**

9/25/2008 - Initial release: Combined similar waterbased inks into one safety data sheet.

USA