



US Material Safety Data Sheet

EU Safety Data Sheet

MSDS Number: 16 Rev. I	Date: July 11, 2008
Product: VersaPrint™ Blue WF Inkjet Ink	Page 1 of 5

Printed: August 15, 2008

<b>Section 1: Identification of the Substance/Preparation and the Company/Undertaking</b>
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Product Identifier: Waterfast blue 300 ink for inkjet printing

Manufacturer: Trident an ITW Company.  
1114 Federal Road  
Brookfield, CT 06804-1140

Telephone: 1- 203-740-9333

Fax: 1 - 203-740-3528

Email: <mailto:hg@trident-itw.com>

Emergency: Call CHEMTREC United States 1-800-424-9300/ International 1-703-527-887(collect)

<b>Section 2: Hazards Identification</b>
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EMERGENCY OVERVIEW: Avoid contact with eyes and skin. May cause eye and skin irritation.

HAZARD RATINGS: NFPA Health: 1 Flammability: 1 Reactivity: 0

Product Classification:

US OSHA: Eye and skin irritant, target organ effects

EU Classification (1999/45/EC): Irritant (Xi) R36/38

Potential Health Affects:

Eye Contact: May cause eye Irritation.

Skin Contact: May cause skin irritation

INGESTION: May cause nausea and vomiting. Swallowing large amounts may cause injury.

INHALATION: Mist may cause irritation of upper respiratory tract.

<b>Section 3: Composition/Information On Ingredients</b>
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DESCRIPTION: A glycol based blue liquid ink for inkjet printing

Components	CAS Number	EINECS Number	Weight %	EU Classification 67/548/EEC
Triethylene glycol	112-27-6	203-953-2	50-75	Xi, R36/38
Diethylene glycol ethyl ether	111-90-0	203-919-7	5-10	Xi, R36
Polyalkylene glycol alkyl ether	Proprietary	Proprietary	10-20	Not classified
Solvent blue dye salt	Proprietary	Proprietary	5-10	Not classified
Non-hazardous ingredients	Proprietary	Proprietary	5-10	Not classified

Please refer to Section 16 for the full text of the EU classification and R phrases.

**Section 4: Emergency First Aid Measures**

INGESTION: Never give anything orally to a person who is losing consciousness, unconscious, or convulsing. If conscious, give 2-4 glasses of water. Do not induce vomiting. Seek medical advice.

INHALATION: Remove to fresh air. For breathing difficulty, give oxygen. If symptoms persist, seek medical advice

EYE CONTACT: Rinse with water. Remove contact lenses. Rinse with copious amounts of water for at least 15 minutes. Seek medical advice.

SKIN CONTACT: Wash thoroughly with soap and water. Launder clothing before reuse.

In any case of persistent irritation, seek medical advice.

**Section 5: Fire Fighting Measures**

FLASHPOINT AND METHOD: est. 115 C [PMCC]

FLAMMABLE LIMITS: Not established

AUTOIGNITION TEMPERATURE: Not established.

EXTINGUISHING MEDIA: Foam, dry chemical, Carbon dioxide and water spray.

SPECIAL FIRE FIGHTING PROCEDURES: Self contained breathing apparatus and full turn-out gear. Keep water out of streams and sewers.

UNUSUAL FIRE & EXPLOSION HAZARDS: Fire can float on liquid. Fumes from burning materials are toxic.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen

**Section 6: Accidental Release Measures**

GENERAL: Wear proper protective clothing. Prevent runoff into waterways and sewers.

SPILL: Contain and collect with absorbent. Dispose of properly according to local, regional, and national regulations.

**Section 7: Handling And Storage**

Store at room temperature[15-30EC], in a dry [≤55%] area in closed containers. Do not store above 40EC for more than a week. Ventilate area well and keep material away from ignition sources. Keep from freezing and condensation. Shipping temperature: 0-43°C.

**Section 8: Exposure Controls & Personal Protection**

EXPOSURE LIMITS:

Components	Exposure Limit / Source
Triethylene glycol	1000 mg/m3 inhalable DFG MAK
Diethylene glycol ethyl ether	25 ppm AIHA WEEL 50 mg/m3 inhalable DFG MAK
Polyalkylene glycol alkyl ether	None Established
Solvent blue dye salt	None Established
Non-hazardous ingredients	None Established

ENGINEERING CONTROLS(ventilation): Good general room ventilation. Local exhaust only, if necessary to maintain concentrations below the TLVs.

PERSONAL PROTECTION:

RESPIRATORY: If necessary, use NIOSH/MSHA approved respirator.

SKIN PROTECTION: Chemical resistant gloves recommended. Disposable latex or butyl rubber gloves.

EYE PROTECTION: Safety glasses recommended.

OTHER: Eye wash facilities should be available nearby.

**Section 9: Physical & Chemical Properties**

Appearance:	Opaque blue liquid with a mild, characteristic odor.		
Flash Point:	est. 115 C	Autoignition Temperature:	N.E.
Flammable Limits:	N.E.	pH:	6-7
Vapor Pressure:	N.E.	Evaporation Rate:	N.E.
Specific Gravity:	1.09	Vapor Density:	N.E.
Boiling Point:	>200 C	Percent Volatiles:	<85% (estimated)
Viscosity	55-60 cps	Solubility in water:	not soluble

**Section 10: Stability & Reactivity**

STABILITY: stable

CONDITIONS TO AVOID: Ignition sources, sparks, static discharge, overheating.

INCOMPATIBILITY: Strong oxidizer, strong acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: oxides of carbon and nitrogen

HAZARDOUS POLYMERIZATION: will not occur

**Section 11: Toxicological Information**

ACUTE TOXICITY:

COMPONENTS

Triethylene glycol	LD50 (oral, rat) >16 g/kg
Diethylene glycol ethyl ether	LD50 [oral, rat] 1920-9050 mg/kg
	LD50 [dermal rabbit] >8400 mg/kg
Polyalkylene glycol alkyl ether	LD50 (oral, rat) >3 g/kg
Solvent blue dye salt	LD50 [oral, rat] 525 mg/kg

No additional acute data available on components of this product.

SUBCHRONIC EFFECTS: This ink has not been tested for subchronic effects.

CHRONIC EFFECTS/CARCINOGENICITY: This ink has not been tested for chronic effects.

COMPONENTS: Rats fed 4% triethylene glycol in their diet over a period of 2 years showed no apparent effect. COMPONENTS: Diethylene glycol ethyl ether has caused effects on the blood, kidney, liver and testes in laboratory animals. Diethylene glycol ethyl ether did not cause cancer or birth defects when tested in animals.

COMPONENTS LISTED AS CARCINOGENS BY REGULATORY AGENCIES:

OSHA: None Listed IARC: None Listed NTP: None Listed. EU Directive: None Listed

**Section 12: Ecological Information**

ECOTOXICOLOGICAL INFORMATION: No data available on the ink

Component:	Component:	Triethylene glycol LC50 >100 mg/L.
		Diethylene glycol ethyl ether LC50 21,400 mg/L/96 hr fish, 2940-4670 mg/L/48 hr daphnia

CHEMICAL FATE INFORMATION: No data available on the ink

Component:	Triethylene Glycol ThOD = 1.6 p/p	BOD = 0.27 p/p
	Diethylene glycol ethyl ether : Readily biodegradable	

Note: p/p = units of oxygen per unit of material.

ThOD = Theoretical Oxygen Demand.

BOD is the Biological Oxygen Demand.

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**Section 13: Disposal Considerations**

Dispose of according to appropriate local, regional and national laws and regulations. Do not reuse empty containers.

**Section 14: Transport Information**

GROUND TRANSPORT: Not regulated.  
 AIR TRANSPORT: Not regulated  
 OCEAN TRANSPORT: Not regulated.

**Section 15: Regulatory Information**

UNITED STATES

This product does not contain any ozone depleting substances (ODS), nor were any ozone depleting substances used in the manufacture.

CONEG Laws: Raw materials used to make our inks do not contain mercury, lead, cadmium or hexavalent chromium, and none are added during manufacture.

TSCA (Toxic Substances Control Act): All components are listed on TSCA.  
 OSHA Hazard Classification: Acute health hazard, chronic health hazard.  
 SARA [Superfund Amendments and Reauthorization Act] Title III 1986  
     40CFR355 - Chemical s requiring emergency planning - none  
     40CFR372 - Chemicals present that may require submission of annual reports of toxic chemicals release: Glycol ethers <10%

CAAA - This ink contains the following ingredients considered hazardous air pollutants under the Clean Air Act Amendments of 1990:

Diethylene glycol ethyl ether	5-10%
Triethylene Glycol	50-75%

STATES:

*California proposition 65* - Components contained in this ink known to cause cancer, birth defects, or reproductive harm by the State of California: Less than 30 ppm Ethylene glycol monoethyl ether (developmental, male), less than 30 ppm Formaldehyde (cancer) and less than 10 ppm Acetaldehyde (cancer)

California SCMQAD: As defined by this statute, this ink is estimated to contain <85% VOCs.

*Massachusetts 105CMR670 Right to Know Substance List (MSL)*: Components that require reporting under this statute are:

Glycol ethers 5-10%

Pennsylvania Right to Know Hazardous Substance List: Components which could require reporting under this statute are: ..... Triethylene Glycol 50-75%

CANADA

DSL/nDSL: All components are listed.  
 WHMIS Classification: D2B

EUROPEAN UNION

EINECS Status: All components are in compliance with European Inventory Requirements.

EU Labeling



Irritant

R36/38 Irritating to eyes and skin.  
S24/25 Avoid contact with eyes and skin.  
S26 In case of contact with eyes, rinse immediately  
with plenty of water and seek medical advice.

**Section 16: Other Information.**

REVISION SUMMARY:

Rev. I - July 2008 - REACH update, Rev 10 Section 15.

HAZARD RATINGS:

NFPA

Health: 1

Flammability: 1

Reactivity: 0

EU Classification and Risk Phrases from Section 2

Xi Irritant

Xn Harmful

R22 Harmful if swallowed.

R36/38 Irritating to eyes and skin.

R41 Risk of serious damage to eyes.

*The information and recommendations contained in this document are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to this information.*

MSDS written by: Trident an ITW Company

Telephone: 1-203-740-9333