



US Material Safety Data Sheet

EU Safety Data Sheet

MSDS Number: 02 Rev. F	Date: January 8, 2008
Product: VersaPrint™ Red Ink	Page 1 of 4

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Section 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Identifier: VersaPrint™ Red Ink Jet Ink

Manufacturer: Trident an ITW Company.
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Section 2: HAZARDS IDENTIFICATION

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

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.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

DESCRIPTION: A red colored liquid ink for ink jet printing.

COMPONENT	CAS #	%[wt./wt.]	EU Classification
Triethylene glycol	112-27-6	60-80	Xi, R36/38
Polyalkylene glycol alkyl ether	Proprietary	15-30	not classified
Solvent Red 160 *	Proprietary	10-15	not classified

*Trivalent chromium in this chromium complex =3%

The trivalent chromium listed in this ink is safe when used as intended.

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Section 4: EMERGENCY FIRST AID MEASURES
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INGESTION: Swallowing less than an ounce will not cause significant harm and does not require any emergency treatment. Nothing should be administered orally to a victim who is losing consciousness, unconscious or convulsing. Do not induce vomiting. For larger amounts, give one or two glasses of water to drink to a conscious patient. Seek medical advice.

INHALATION: If exposed to excessive levels of vapor or mist, remove to fresh air. For difficulty breathing, give oxygen. Seek medical attention if cough or other symptoms develop.

EYE CONTACT: Immediately flush eyes with plenty of cool water for 15 minutes retracting the lids. After initial flush, remove contact lenses. Seek medical advice.

SKIN CONTACT: Wash with soap and water. Remove and launder contaminated clothing.
In any case of persistent irritation, seek medical advice.

SECTION 5: FIRE FIGHTING MEASURES
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FLASHPOINT AND METHOD: >110°C[230°F] COC

FLAMMABLE LIMITS: None established

AUTOIGNITION TEMPERATURE: None established

EXTINGUISHING MEDIA: Use Carbon dioxide or dry chemical for small fires, alcohol foam, universal foam, or water spray for large fires.

SPECIAL FIRE FIGHTING PROCEDURES: Dike liquids to prevent run-off to waterways and sewers. Collect and dispose of properly.

UNUSUAL FIRE & EXPLOSION HAZARDS: Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen.

SECTION 6: ACCIDENTAL RELEASE MEASURES

GENERAL: Wear proper protective equipment. Limit access to the area. Contain and collect for proper disposal. Keep from waterways and sewers. Notify proper authorities.

SPILL: Dike spill. Absorb with inert material and collect for disposal. Flush area with water, ensuring that none of it escapes into the waterways.

SECTION 7: HANDLING AND STORAGE
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Avoid contact with skin and eyes. Wear appropriate protective equipment. Keep containers closed. Store in a cool [40-120°F(4-49°C)], dry, well-ventilated place.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMITS: No published exposure limits are available.

ENGINEERING CONTROLS : Room ventilation should be adequate.

PERSONAL PROTECTION:

RESPIRATORY: None normally needed in well-ventilated areas.

SKIN PROTECTION: If contact likely, wear gloves.

EYE PROTECTION: Wear shielded safety glasses

OTHER: An eye wash station should be available nearby. If contact likely, wear protective clothing to limit skin contact.

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SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	Red liquid with mild odor.	
FLASH POINT: est	>110°C	AUTOIGNITION TEMPERATURE: Not established
FLAMMABLE LIMITS:	Not established	EVAPORATION RATE: (n-butyl acetate = 1) <1.0
pH:	6-7	VAPOR PRESSURE: <1.0mm Hg@20°C
SPECIFIC GRAVITY:	1.0-1.10	VAPOR DENSITY: 5.5 (estimated)
BOILING POINT:	>300°F(149°C)	PERCENT VOLATILES: <90% estimated
FREEZING POINT:	< -10°C	SOLUBILITY in water: partial
VISCOSITY	50-60 cps.	

SECTION 10: STABILITY & REACTIVITY

STABILITY: stable	HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID:	Excessive heat
INCOMPATIBILITY:	Do not expose to strong alkalis (caustics) at elevated temperatures.
HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen.	

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	Not tested.
COMPONENTS	
Triethylene glycol	LD50 (oral, rat) >16 g/kg
Polyalkylene glycol alkyl ether	LD50 (oral, rat) >3 g/kg
Trivalent chromium complex	LD50 (oral, rat) >10 g/kg
SUBCHRONIC EFFECTS:	Not tested.
CHRONIC EFFECTS/CARCINOGENICITY:	This ink has not been tested for chronic toxicological effects.
COMPONENTS:	Rats fed 4% Triethylene glycol in their diet over a period of 2 years showed no apparent effect.
COMPONENTS LISTED AS CARCINOGENS BY REGULATORY AGENCIES:	
OSHA: NONE LISTED IARC: NONE LISTED NTP: NONE LISTED.	
MUTAGENICITY:	Not tested.
REPRODUCTIVE EFFECTS:	Not tested.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:	No data available on the ink	
Component:	Triethylene glycol	>100 mg/L.
CHEMICAL FATE INFORMATION:	No data available on the ink	
Component:	Triethylene Glycol	ThOD = 1.6 p/p BOD = 0.27 p/p
Note:	p/p = units of oxygen per unit of material.	ThOD = Theoretical Oxygen Demand.
BOD is the Biological Oxygen Demand.		

SECTION 13: DISPOSAL CONSIDERATIONS

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

SECTION 14: TRANSPORT INFORMATION

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

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SECTION 15: REGULATORY INFORMATION(Not meant to be all inclusive)

UNITED STATES

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

CONEG: Raw materials used to make this ink does not contain mercury, lead, cadmium or hexavalent chromium and none are added during manufacture.

TSCA (Toxic Substances Control Act): All components are in compliance with TSCA.

EPA Hazard rating: Untested mixture.

SARA [Superfund Amendment and Reauthorization Act] Title III (CERCLA):

Components of this ink regulated under this statute:

-----Solvent Red 160 trivalent chromium complex

CAAA - This ink contains the following ingredients considered Hazardous Air Pollutants under the Clean Air Act Amendment of 1990: ...Solvent Red 160 trivalent chromium complex.... 10-15%

California proposition 65 - Components contained in this ink known to cause cancer, birth defects, or reproductive harm by the State of California: none.

California SCMQUAD: This product is estimated to contain no more than 90% VOC as defined by the State of California.

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

-----Solvent Red 160 trivalent chromium complex 10-15%

Pennsylvania Right to Know Hazardous Substance List : Components of this product that could require reporting are:

-----Solvent Red 160 trivalent chromium complex 10-15%

New Jersey Registration # TRDTINTL-978002

CANADA:

DSL/nDSL: All components are listed.

WHMIS Classification D 2B

EUROPEAN UNION

EINECS Status: All components are in compliance with European Inventory requirements

CLASSIFICATION: This product is considered an irritant based on criteria found in EU Directives 67/548 and 88/379 [Xi, R36, 38 S23, S51]

SECTION 16: OTHER INFORMATION.

REVISION SUMMARY:

Revised January 2008, Update of all sections to new regulations.

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

EU Classification and Risk Phrases from Section 2

Xi Irritant
R36/38 Irritating to eyes and skin.

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

Written by: Trident an ITW company

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