



US Material Safety Data Sheet

EU Safety Data Sheet

<b>MSDS Number: 20 Rev. F</b>	<b>Date: July 11, 2008</b>
<b>Product: AlphaMark™ black inkjet ink</b>	<b>Page 1 of 4</b>

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<b>Section 1: Identification of the Substance/Preparation and the Company/Undertaking</b>
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Product Identifier: AlphaMark™ Ink Jet Ink

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

Telephone: 1- 203-740-9333

Fax: 1 - 203-740-3528

Email: <mailto:hq@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

EU Classification (1999/45/EC): Irritant (Xi) R36/37/38

Potential Health Affects:

Eye Contact: May cause eye Irritation.

Skin Contact: May cause skin irritation

INGESTION: This ink is not a serious ingestion hazard.

INHALATION: This ink is not a serious acute hazard however, it is irritating to mucus membranes and the upper respiratory system.

<b>Section 3: Composition/Information on Ingredients</b>
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DESCRIPTION: A black colored liquid ink for ink jet printing.

Components	CAS Number	EINECS Number	Weight %	EU Classification 67/548/EEC
Oleic acid	112-80-1	204-007-1	20-40	Xi, R36/37/38
Fatty ester	Proprietary	Proprietary	30-60	not classified
Azine compound	Proprietary	Proprietary	5-20	not classified

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

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<b>Section 4: Emergency First Aid Measures</b>
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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.

<b>Section 5: Fire Fighting Measures</b>
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**FLASHPOINT AND METHOD:** >185°C[365°F] COC estimated

**FLAMMABLE LIMITS:** None established

**AUTOIGNITION TEMPERATURE:** None established

**EXTINGUISHING MEDIA:** Use carbon dioxide, dry chemical or foam.

**SPECIAL FIRE FIGHTING PROCEDURES:** Use self-contained breathing equipment to protect against potential toxic and irritating contaminants that may be present in decomposed products. 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.

<b>Section 6: Accidental Release Measures</b>
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**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.

<b>Section 7: Handling And Storage</b>
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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.

<b>Section 8: Exposure Controls And Personal Protection</b>
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EXPOSURE LIMITS:

Components	Exposure Limit / Source
Oleic Acid	None Established
Fatty Ester	None Established
Azine compound	None Established

**ENGINEERING CONTROLS :** Room ventilation should be adequate.

**PERSONAL PROTECTION:**

**RESPIRATORY:** None normally needed in well-ventilated areas.

**SKIN PROTECTION:** If contact likely, wear gloves.

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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.

<b>Section 9: Physical &amp; Chemical Properties</b>
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APPEARANCE:	Black liquid with mild odor.	
FLASH POINT:	>365°C COC (est)	AUTOIGNITION TEMPERATURE: Not established
FLAMMABLE LIMITS:	Not established	EVAPORATION RATE: (n-butyl acetate = 1) Negligible
pH:	5.6 (approx)	VAPOR PRESSURE: <0.1 mm Hg@20°C (est)
SPECIFIC GRAVITY:	0.96 (approx)	VAPOR DENSITY: 4.6 (estimated)
BOILING POINT:	>365°F(185°C)	SOLUBILITY in water: slight
VISCOSITY	49 cps @ 25 °C (approx)	

<b>Section 10: Stability &amp; Reactivity</b>
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STABILITY:	Stable
CONDITIONS TO AVOID:	Excessive heat or light
INCOMPATIBILITY:	Do not expose to strong alkalis or strong oxidizers.
THERMAL DECOMPOSITION PRODUCTS:	Oxides of carbon and nitrogen.
HAZARDOUS POLYMERIZATION:	Will not occur

<b>Section 11: Toxicological Information</b>
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ACUTE TOXICITY: COMPONENTS

Fatty ester	LD50 (oral, rat) >14 g/kg
Azine compound	LD50 [oral, rat] >2 g/kg
Oleic acid	LD50 (oral, rat) 25 g/kg

SUBCHRONIC EFFECTS: Not tested.

CHRONIC EFFECTS/CARCINOGENICITY: Very high doses (>50 g/kg/day) of the fatty ester caused possible changes in red blood cells.

COMPONENTS LISTED AS CARCINOGENS BY REGULATORY AGENCIES:  
 OSHA: None Listed IARC: None Listed NTP: None Listed. EU Directive: None Listed

MUTAGENICITY: The azine compound and fatty ester were negative in tests for mutagenicity.

REPRODUCTIVE EFFECTS: A single study in rats showed decreased pup weight gain at very large oral doses (>400 g/kg) of the fatty ester.

<b>Section 12: Ecological Information</b>
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ECOTOXICOLOGICAL INFORMATION: No data available on the ink  
 CHEMICAL FATE INFORMATION: No data available on the ink

<b>Section 13: Disposal Considerations</b>
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Dispose of according to appropriate local, regional and national laws or regulations. Do not reuse empty containers.

<b>Section 14: Transport Information</b>
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GROUND TRANSPORT:	Not regulated.
AIR TRANSPORT:	Not regulated
OCEAN TRANSPORT:	Not regulated

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<b>Section 15: Regulatory Information(not meant to be all inclusive)</b>
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UNITED STATES

This product does not contain any ozone depleting substances (ODS), nor were any ODS's 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.  
 OSHA Hazard Classification: Acute health hazard.  
 SARA [Superfund Amendment and Reauthorization Act] Title III (CERCLA):  
 Components of this ink regulated under this statute: None

CAAA - This ink contains the following ingredients considered Hazardous Air Pollutants under the Clean Air Act Amendment of 1990: None

*California proposition 65* - Components contained in this ink known to cause cancer, birth defects, or reproductive harm by the State of California: less than 0.1% aniline (cancer).

*California SCMQUAD*: This product is estimated to contain no more than 95% VOC as defined by the State of California.

*Massachusetts 105CMR670 Right to Know Substance List (MSL)*: Components that require reporting under this statute are: None

*Pennsylvania Right to Know Hazardous Substance List* : Components of this product that could require reporting are: -----Oleic acid 20-40%


*New Jersey Registration # TRDTINTL-978009*

CANADA:

DSL/nDSL: All components are listed.  
 WHMIS Classification D 2B

EUROPEAN UNION

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

	<p>R36/37/38 Irritating to eyes, respiratory system 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.</p>
Irritant	

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<b>Section 16:      Other Information.</b>
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REVISION SUMMARY:            Rev. B – Error corrections in Section 2.  
   Revised July 12, 2000; Correction to Section 15.  
   Revised June 20, 2005 Update Section 2 based updated info on raw materials  
   Revised July 11, 2008. REACH update (all sections)

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

EU Classification and Risk Phrases from Section 2

Xi            Irritant  
R36/37/38    Irritating to eyes, respiratory system 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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