



US Material Safety Data Sheet

EU Safety Data Sheet

MSDS Number: 08 Rev. I	Date: July 11, 2008
Product: JetWrite™ black ink jet ink	Page 1 of 5

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Section 1: Identification of the Substance/Preparation and the Company/Undertaking

Product Identifier: JetWrite™ black 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:hg@trident-itw.com>

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

Section 2: Hazards Identification
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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.

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

Components	CAS Number	EINECS Number	Weight %	EU Classification
Oleic acid	112-80-1	204-007-1	30-40	67/548/EEC Xi, R36/37/38
Fatty ester	Proprietary	Proprietary	50-60	not classified
Azine compound	Proprietary	Proprietary	5-15	not classified

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

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Section 4: Emergency First Aid Measures

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

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.

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. Surfaces may be slippery so use granular material to absorb. Flush area with water, ensuring that none of it escapes into the waterways.

Section 7: Handling And Storage

Avoid contact with skin and eyes. Wear appropriate protective equipment. Keep containers closed. Store in a cool [40-120°F(4-49°C)], dry, dark place.

Section 8: Exposure Controls And Personal Protection

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.

Section 9: Physical & Chemical Properties

APPEARANCE:	Black liquid with mild odor.	AUTOIGNITION TEMPERATURE:	Not established
FLASH POINT: est	>365°C COC (est)	EVAPORATION RATE: (n-butyl acetate = 1)	Negligible
FLAMMABLE LIMITS:	Not established	VAPOR PRESSURE:	<0.1 mm Hg@20°C (est)
pH:	5.2 (approx)	VAPOR DENSITY:	4.6 (estimated)
SPECIFIC GRAVITY:	0.96 (approx)	SOLUBILITY in water:	slight
BOILING POINT:	>365°F(185°C)		
VISCOSITY	32 cps @ 25 °C (approx)		

Section 10: Stability & Reactivity
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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

Section 11: Toxicological Information

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.

Section 12: Ecological Information
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ECOTOXICOLOGICAL INFORMATION: No data available on the ink

CHEMICAL FATE INFORMATION: No data available on the ink

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 16: Other Information.
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REVISION SUMMARY: Revised format to include Europe and Canada, January, 1996.
Revised August, 1997; new information in Sections 1, 2, 11&15.
Revised June 7, 1998 to include Canadian WHMIS ratings in section 15.
Revised August 12, 1998 Ingredients correction in Section 2.
Revised October, 1998 to correct data in sections 3, 5, & 9.
Revised December, 1998 to change data in Sections 1,2, 3, 4,5, 8 & 15.
Revised July 12, 2000, correction to Section 15.
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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