



U.S. Material Safety Data Sheet European Safety Data Sheet

MSDS # 24 Revision C	Date: September 26, 2007
Product: ScanTrue™ II black inkjet ink	Page 1 of 4

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Section 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Identifier: Pigment based black 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: This Material is not considered hazardous by OSHA hazard Communication Standard 29CFR 1910.1200
This Product is not classed as hazardous to health or the environment by directive 1999/45/EC.

Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Components	CAS #	%	EU Classification 67/548/EEC
Carbon black	1333-86-4	5-20	Not classified
High boiling aliphatic distillate	64742-80-9	<10	Xn,R65, R66
Quinol	123-31-9	<0.5	Xn, N R22,R40, R41 R43, R68, R50
Non- hazardous components		60-80	Not classified

Refer to Section 16 for the full text of the EU Classification and the R phrases.
The data shown above is in accordance with the latest EC Directive.

The ratings presented in Section 3 represent that of the individual components. The final ink does not contain the same rating based on the concentration of the components that exist in the ink.

Section 4: FIRST AID MEASURES

In case of Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. If victim is conscious, give large amounts of water. Get immediate medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. Give artificial respiration or oxygen if breathing has stopped. If symptoms persist, get prompt medical attention.

Eyes: Rinse eyes with water for several minutes. Remove contact lenses if present. Continue rinsing. If eye irritation persists, get medical attention.

Skin: Wash skin immediately with plenty of water, remove contaminated clothing. If skin irritation occurs, seek medical attention. Wash clothing before re-use.

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SECTION 5: FIRE FIGHTING MEASURES
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EXTINGUISHING MEDIA: Foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Self contained breathing apparatus and full turnout gear. Limit access by unauthorized personnel.

UNUSUAL FIRE & EXPLOSION HAZARDS: Water fog may be used to cool containers, but is not recommended as an extinguishing agent, since it may cause boil-over or frothing.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen. Ammonia and unidentified organic compounds.

SECTION 6: ACCIDENTAL RELEASE MEASURES

GENERAL: Wear skin, eye and respiratory protection.

SPILL: Do not reuse empty container. Clean containers thoroughly before disposal. Spills should be cleaned up using appropriate absorbents. Dispose of waste material in accordance with applicable local, regional and national regulations.

SECTION 7: HANDLING AND STORAGE
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Store in cool [4-40°C], dry, well-ventilated area in sealed containers. Keep away from children. Wear appropriate protective clothing/ equipment when handling this material. Avoid contact with skin, eyes, and clothing. Practice good hygiene.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS: None are established for the finished ink. See below for the exposure limits of the individual components of the ink.

Components	OSHA/ACGIH/NIOSH PEL/TLV/REL
Carbon black	3.5 mg/m3 TWA ACGIH/OSHA/NIOSH
High boiling aliphatic distillate	5 mg/m3 TWA ACGIH/OSHA/NIOSH, 10 mg/m3 STEL ACGIH
Quinol	2 mg/m3 TWA ACGIH/OSHA 2 mg/m3 Ceiling NIOSH
Non- hazardous components	None Established

ENGINEERING CONTROLS (ventilation):
 General mechanical exhaust is adequate under normal use conditions. Airborne concentrations of components having published limits should be measured periodically.
 If airborne concentrations approach or exceed published exposure limits, use local exhaust.

PERSONAL PROTECTION

RESPIRATORY PROTECTION: If needed because airborne concentrations of the regulated components can not be maintained below the published limits, use NIOSH-MSHA approved respirator.

EYE PROTECTION: Safety glasses with side shields are recommended.

SKIN PROTECTION: Gloves and clothing protection is always recommended.

OTHER: Eyewash and safety shower should be available nearby.

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SECTION 9: PHYSICAL & CHEMICAL PROPERTIES
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Appearance	Black viscous liquid	Flammable Limits:	not known
Flash point	>104 °C	Auto Ignition Temperature:	not known
Vapor Pressure	<0.004 @ 20 °C		
Evaporation rate	<1 (Butyl acetate =1)		
Vapor Density	not known		
Specific Gravity	1.00		
Solubility	Slight		
pH	approx. 9.0		
Viscosity	20 cps @ 25 °C		
Boiling Point	>350°F		
Freezing Point	<-20°C		

SECTION 10: STABILITY & REACTIVITY

STABILITY:	Stable under normal operating conditions
INCOMPATIBILITY	Strong oxidizing or reducing agents
HAZARDOUS POLYMERIZATION:	Will not occur
CONDITIONS TO AVOID:	Avoid exposure to high temperatures.
Hazardous Decomposition products	Carbon and nitrogen oxides

SECTION 11: TOXICOLOGICAL INFORMATION
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ACUTE TOXICITY: The LD50 (oral,rat) for all components [except quinol] is >2 g/kg. The LD50 [oral, rat] of quinol is 320 mg/kg, however, the concentration of quinol is < 1.0% in the ink, that a large quantity of the ink would need to be ingested before the hydroquinone could cause significant toxic effects.

Subchronic Effects:	None
Chronic Effects/Carcinogenicity:	
Agencies:	The ink is not listed
Component	Carbon Black
OSHA: not listed	NIOSH: not listed NTP: Not listed, IARC 2B

Carbon black has been positive in some animal cancer studies and negative in others. There is not enough epidemiological evidence to support classifying carbon black as a human carcinogen. Consequently IARC has rated it as a possible human carcinogen. Carbon blacks contain a very low percentage of absorbed PAH's (poly nuclear aromatic hydrocarbons) which in the non-absorbed form have sometimes been found to be animal carcinogens. The carbon black used in this ink has <0.1% absorbed PAH's.

Component: Quinol	
OSHA: not listed	NIOSH: not listed IARC: 3

MUTAGENICITY:	Not known
REPRODUCTIVE EFFECTS:	Not known.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:	not known
Chemical Fate Information:	not known

SECTION 13: DISPOSAL CONSIDERATIONS
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Dispose of according to appropriate local, regional and national laws or regulations.

SECTION 14: TRANSPORT INFORMATION
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Not a hazardous material for DOT shipping

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SECTION 15: REGULATORY INFORMATION

United States

This product is regulated under the hazard communication Standard (29CFR1910.1200)

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

CONEG: The raw materials used to make this ink 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 the TSCA inventory

SARA [Superfund Amendments and Reauthorization Act] Title III:

40CFR355: Extremely hazardous chemicals in this product regulated under this statute that may require Threshold Planning:Quinol, CAS # 132-31-9

EPA hazard categories for this product are: Untested mixture with acute and chronic health hazards

CAAA - Components of this product regulated under the Clean Air Act Amendments of 1990: None

State Regulations

California SCMQAD:

The concentration of VOC's in this ink is estimated to be <10%.

Massachusetts 105CMR670 Right to Know Act:

Components that could require reporting under this statute are:
Carbon black, CAS # 84-74-2,
Quinol, CAS # 123-31-9

Pennsylvania Right to Know Hazardous Substance list:

Components of this ink that could require reporting are:
Carbon black

New Jersey: Components regulated under this law:

Carbon black, Quinol.

CANADA

DSL/nDSL:

All components are listed

WHMIS Classification:

D2B - Materials causing other toxic effects.

EUROPEAN UNION

EINECS status:

All components are listed.

CLASSIFICATION:

Product is not classed as hazardous to health or the environment by directive 1999/45/EC.
This SDS is written in compliance with Directive 1999/45/EC

SECTION 16: OTHER INFORMATION.

REVISION SUMMARY: Revision C: Update of all sections to current regulations. 9/26/07

EU Classification and Risk Phrases from Section 3

- Xn Harmful
- N dangerous for the environment
- R22 harmful if swallowed
- R40 limited evidence of carcinogenic effect
- R41 Risk of serious damage to eyes
- R43 may cause sensitization by skin contact
- R50 toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
- R65 Harmful may cause lung damage if swallowed
- R66 Repeated exposure may cause skin dryness or cracking
- R68 Possible risk of irreversible effects

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.

Written by: Trident an ITW Company.

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