



MATERIAL SAFETY DATA SHEET

SECTION I – Chemical Product and Company Identification

Product Name: 8103 BLACK INK
Product Number: 201-8103
Manufacturer: Xandex, Inc.
1125 N. McDowell Blvd.
Petaluma, CA 94954
USA
Web Site: www.xandex.com
Emergency Telephone: (800) 535-5053 (US Domestic)
(352) 323-3500 (International)
Revision Date: 25 July, 2011
Identified Use: Marking ink for semiconductors

SECTION II – Composition/Information on Ingredients

<u>COMPONENTS</u>	<u>%</u>	<u>CAS#</u>	<u>RISK STATEMENTS</u>	<u>HAZARD SYMBOLS</u>
Diacetone Alcohol	13	123-42-2	R11-36	Xi, F
Benzyl Alcohol	68	100-51-6	R20/22	Xn
Nigrosine Dye	4	8005-02-5	R21/22, R40, R48/24/25	T

SECTION III – Hazards Identification

NFPA Rating System:	HMIS II Rating System:*	HMIS III Rating System:
Health: 2	Health: 2	Health: 2
Flammability: 2	Flammability: 2	Flammability: 2
Instability: 0	Reactivity: 0	Physical Hazard: 0
	PPE (protection): B	PPE (protection): B

* HMIS II has been replaced by HMIS III

Carcinogen: NTP - No OSHA - No

Effects of Overexposure:

Eyes: This product can cause irritation to eyes on contact. Risk of serious damage to eyes.
Skin: This product can cause moderate irritation to skin on contact.
Inhalation: Vapor or mist can cause irritation to the nose and throat.
Ingestion: Harmful if swallowed.

SECTION IV – First Aid Measures

Eyes: Thoroughly flush with water. Call physician immediately.
Skin: Wash with soap and water.
Inhalation: Remove to fresh air.
Ingestion: If conscious, give two glasses of water. Get medical attention immediately.

SECTION V – Fire Fighting Measures



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Extinguishing Media: Dry chemical, CO₂, alcohol foam.
Unusual Fire and Explosion Hazards: Emits toxic fumes under fire conditions.
Special Fire fighting Methods: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION VI – Accidental Release Measures

Eliminate all sources of ignition. Wear protective clothing and gloves. Absorb spilled material with vermiculite or floor absorbent.

SECTION VII – Handling and Storage

Storage Temperature: Maximum 25°C (77° F)
Store away from excessive heat (e.g., steam pipes, radiators), from sources of ignition and from reactive materials. Avoid contact with skin, eyes, and clothing.

PLEASE READ TECHNICAL DATA SHEET BEFORE HANDLING THIS PRODUCT.

SECTION VIII – Exposure Controls/Personal Protection

Eye Protection: Safety goggles
Respiratory Protection: For continuous exposure to large quantities, wear respirator (MSHA/NIOSH approved) as required for concentrations of air contaminants encountered.
Skin Protection: Chemical resistant gloves. Avoid repeated or prolonged skin exposure. Wash thoroughly after handling.
Ventilation Requirements: Sufficient to prevent operator discomfort.

SECTION IX – Physical and Chemical Properties

Flash Point: 64° C
Odor: Slight alcoholic odor
Appearance: Opaque black liquid
Specific Gravity: 1.079 (Water = 1)
Volatile / Non-Volatile (Solids): 81% Volatile / 19% Non-Volatile

SECTION X – Stability and Reactivity

Stability: Stable under normal conditions
Conditions to Avoid: Heat and flame
Hazardous Combustion Products: CO, CO₂, and oxides of nitrogen
Materials to Avoid: Strong oxidizing agents

SECTION XI – Toxicological Information



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Acute Effects:

Harmful if swallowed.

May be harmful if inhaled or absorbed through skin.

Causes severe eye irritation.

May cause skin irritation.

Material may be irritating to mucous membranes and upper respiratory tract.

The chemical, physical, and toxicological properties of this product have not been thoroughly investigated.

SECTION XII – Ecological Information

Data not yet available.

SECTION XIII – Disposal Considerations

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

SECTION XIV – Transport Information

DOT & IATA : Not restricted.

SECTION XV – Regulatory Information

European Information:

X_n: R22

Harmful if swallowed.

X_i: R36/37/38

Irritating to eyes, respiratory system, and skin.

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In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

RCRA Status:

Not a hazardous waste under RCRA (40 CFR 261)

CERCLA Status:

Not listed

TSCA Status:

TSCA Listed

SARA Title III:

This product contains no toxic chemicals subject to the notification under Section 313 (40 CFR 372).

California Right to Know Act (Prop. 65):

The following is a required statement:

WARNING!!!



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This product may contain trace amounts of a chemical known to the state of California to cause cancer.

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% By Weight</u>
Aniline	62-53-3	< .1%

SECTION XVI – Other Information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. See reverse side of invoice or packing slip for additional terms and conditions of sale.