
1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: 7824 BLACK INK
Product Number: 201-1511
REACH Registration Number: N/A
Identified Use: Marking ink for semiconductors
Uses Advised Against: None identified
Manufacturer: Xandex, Inc.
1360 Redwood Way, Suite A
Petaluma, CA 94954 USA
Web Site: www.xandex.com
E-Mail: beastin@xandex.com
Information Contact: Bill Eastin
Emergency Telephone: (800) 535-5053 (US Domestic)
(352) 323-3500 (International)

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Combustible Liquid, Target Organ Effect, Irritant, Harmful by ingestion, Reproductive hazard

Target Organs

Blood, Liver, Kidney, Nerves

GHS Classification

Flammable liquids (Category 4)
Acute toxicity, Oral (Category 4)
Acute toxicity, Inhalation (Category 3)
Skin irritation (Category 3)
Serious eye damage (Category 1)

GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

H227

Combustible liquid

H302

Harmful if swallowed

H316

Causes mild skin irritation



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H318 Causes serious eye damage
H331 Toxic if inhaled

Precautionary statements

P261 Avoid breathing fume/gas/mist/vapors/spray
P280 Wear protective gloves/eye protection
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P311 Call a POISON CENTER or doctor/physician

NFPA Rating

Health hazard 2
Fire 2
Reactivity hazard 0

HMIS Classification

Health hazard 2
Flammability 2
Physical hazard 0

Potential Health Effects

Eyes: Causes eye irritation.
Skin: Harmful if absorbed through skin. Causes skin irritation.
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion: Harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Description

Phenoxy resin and dye based ink mixture with a solvent blend.

Hazardous Ingredients

Chemical name	EC-No	Index-No	CAS-No	Amount (%)	Classification according to Regulation (EC) No 1272/2008 (CLP)	Classification according to 67/548/EEC
2-Phenoxyethanol	204-589-7	603-098-00-9	122-99-6	40-60	H302, H316, H319	R22-36, Xn
Diacetone Alcohol	204-626-7	603-016-00-1	123-42-2	10-30	H226, H303, H318, H331, P261, P280, P305 + P351 + P338, P311	R11-36, Xi, F
Nigrosine Dye	616-851-1		8005-02-5	1-7		R48/20/21/22-20/21/22-48, S24/25 Xn, Xi



4. FIRST AID MEASURES

In case of eye contact:

Thoroughly flush with water for at least 15 minutes. Consult a physician.

In case of skin contact:

Wash with soap and plenty of water. Consult a physician.

In case of inhalation:

Remove to fresh air. Consult a physician.

In case of ingestion:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE FIGHTING MEASURES

Conditions of flammability:

Flammable in the presence of a source of ignition when the temperature is above the flash point.

Suitable extinguishing media:

Use water spray, dry chemical, carbon dioxide, alcohol-resistant foam.

Hazardous combustion products:

Emits carbon and nitrogen oxides under fire conditions.

Special protective equipment for fire fighters:

Wear self-contained breathing apparatus if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear protective clothing and gloves. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental precautions:

Do not let product enter drains.

Methods for cleaning up:

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.



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Conditions for storage:

Store at a temperature of 10-25°C (50-77° F) to maintain maximum shelf life.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Limit value type (country of origin)	Substance name	EC-No	CAS-No	Occupational exposure limit value	Source
TWA (USA)	Diacetone alcohol	204-626-7	123-42-2	50 ppm	ACGIH Threshold Limit Values (TLV)
Remarks: Eye & Upper Respiratory Tract irritation					
TWA (USA)	Diacetone alcohol	204-626-9	123-42-2	50 ppm 240 mg/m ³	NIOSH Recommended Exposure Limits
TWA (USA)	Diacetone alcohol	204-626-9	123-42-2	50 ppm 240 mg/m ³	Occupational Exposure Limits (OSHA)- Table Z-1 Limits for Air Contaminants
TWA (USA)	Diacetone alcohol	204-626-9	123-42-2	50 ppm 240 mg/m ³	Occupational Exposure Limits (OSHA)- Table Z-1 Limits for Air Contaminants- 1910.1000

Exposure controls

Eye protection

Safety goggles tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Respiratory protection

Where risk assessment shows they are appropriate, wear respirator (CEN/NIOSH approved) as required for concentrations of air contaminants encountered.

Skin protection

Avoid repeated or prolonged skin exposure.

Use nitrile rubber gloves with a minimum layer thickness of 0.2 mm.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Opaque liquid

Color:

Black

Odor:

Slight alcoholic odor

Flash Point:

69° C

Specific Gravity:

1.076 (Water = 1)



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% Volatile/Non-Volatile (Solids): 84.1% Volatile / 15.9% Non-Volatile
Solubility in Water: Insoluble
Evaporation Rate: <1 (Butyl Acetate = 1)
Vapor Density: >4 (Air = 1)

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage conditions
Conditions to Avoid: Heat, flames and sparks
Hazardous Decomposition Products: Carbon and nitrogen oxides
Materials to Avoid: Strong oxidizing agents, Strong acids, Strong bases
Possibility of Hazardous Reactions: No data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

2-Phenoxyethanol

Oral LD50

LD50 Oral-rat-1,260 mg/kg

Behavioral: General anesthetic. Gastrointestinal: Other changes. Kidney, Ureter, Bladder: Other changes.

Inhalation LC50

No data available

Dermal LD50

LD50 Dermal-rat-14,422 mg/kg

Diacetone alcohol

Oral LD50

LD50 Oral-rat-2,520 mg/kg

Inhalation LC50

LC50 Inhalation-rat-4h-1,500 ppm

Dermal LD50

LD50 Dermal-rabbit-13,500 mg/kg

Skin corrosion/irritation

2-Phenoxyethanol

Skin-rabbit-mild skin irritation-24h

Diacetone alcohol

No data available



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Serious eye damage / eye irritation

2-Phenoxyethanol

Eyes-rabbit-Moderate eye irritation

Diacetone alcohol

Eyes-rabbit-Severe eye irritation-24 h

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA

Reproductive toxicity

May cause reproductive disorders.

Teratogenicity

No data available

Specific target organ toxicity- single exposure (Globally Harmonized System)

No data available

Specific target organ toxicity- repeated exposure (Globally Harmonized System)

No data available

Aspiration hazard

No data available



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Potential health effects

Ingestion

Harmful if swallowed.

Inhalation

May be harmful if inhaled. Causes respiratory tract irritation.

Skin

Harmful if absorbed through skin. Causes skin irritation.

Eyes

Causes eye irritation.

Signs and Symptoms of Exposure

Central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness, blood disorders, dermatitis and blurred vision. The chemical, physical, and toxicological properties of this product have not been thoroughly investigated.

Synergistic effects

No data available

12. ECOLOGICAL INFORMATION

Toxicity

2-Phenoxyethanol

Toxicity to fish

LC50- *Leuciscus idus* (Golden orfe)- > 100 mg /l - 96 h

Diacetone alcohol

Toxicity to fish

LC50- *Lepomis macrochirus* (Bluegill)- 420 mg /l – 96 h

Toxicity to daphnia
and other aquatic
invertebrates

EC50- *Daphnia magna* (Water Flea)- 9,000 mg /l – 24 h

Persistence and degradability

2-Phenoxyethanol

Biodegradability

Readily biodegradable, according to appropriate OECD test.

Diacetone alcohol

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

PBT and vPvB assessment

No data available



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Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Contact a professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations in the jurisdiction where the product is used.

14. TRANSPORT INFORMATION

DOT (US)

UN Number: N/A

Marine pollutant: No

Poison inhalation hazard : No

Not dangerous goods

IATA

UN Number: N/A

Not dangerous goods

IMDG

Not dangerous goods.

15. REGULATORY INFORMATION

OSHA Hazards

Combustible Liquid, Target Organ Effect, Harmful by ingestion, Reproductive hazard, Irritant

CERCLA Status:

Not listed

TSCA Status:

All chemicals used in this product are TSCA listed.

SARA 302:

This product contains no chemicals subject to the notification under SARA Title III, Section 302.

SARA 311/312 Hazards

Acute health hazard, chronic health hazard.

SARA 313:

The following component is subject to reporting levels established in SARA Title III, Section 313.

	CAS No.	Revision Date
2-Phenoxyethanol	122-99-6	1995-01-01



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Massachusetts Right To Know Components

	CAS No.	Revision Date
Diacetone Alcohol	123-42-2	1993-04-24

Pennsylvania Right To Know Components

	CAS No.	Revision Date
2-Phenoxyethanol	122-99-6	1995-01-01
Diacetone Alcohol	123-42-2	1993-04-24

New Jersey Right To Know Components

	CAS No.	Revision Date
2-Phenoxyethanol	122-99-6	1995-01-01
Diacetone Alcohol	123-42-2	1993-04-24

German Regulations

Water-endangering substances (WGK [water hazard class]): 1

16. 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. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Xandex Incorporated shall not be held liable for any damage resulting from handling or from contact with the above product.

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