

SECTION 1: IDENTIFICATION

Product Identifier: Black Matrix INK (B11/B12) – P/N 179616-001

Product Code(s): 7660

Product Use: **Printronix P/N** 080294, 080296, 081905, 082285, 083844, 09004294, 09005591, 09005592, 09005660, 107675-001/005/007/008/018/033/301/305/307/308, 11563, 141587-005/006, 141590-007/008, 172293-001, 173760-001, 175006-001/301, 175220-001/301, 175566-001, 176422-001, 176530-001, 176550-001, 176565-001, 179006-001/301, 179499-001/301, 1A3000B01, 250145-001, 252037-001, 253957-001, 254082-001, 254139-001, 255048-101/102/401/402/402-WM/4GM/4WM, 255049-101/102/102-1WM/103/104/104-R/1GM/1WM, 255050-401/402, 255051-001/002/103/104/104-R, 255161-001, 255162-001/301, 255163-001, 255164-001, 255165-001, 255166-001, 255361-001, 255661-101/102/103/104, 255670-101/102/103/104/401/402/403/404, 256109-104, 256110-104, 256111-104/404, 256112-104/404, 256248-104, 256257-104, 256260-104, 256557-4GC, 256976-103/104/104-R/403/404, 256977-103/104/104-R/403/404, 257124-001, 257130-001/002, 257538-104, 257541-104/404, 257544-104/404, 257854-104, 258064-4GC, 258094-104, 258127-104, 258133-104, 258399-401, 41U1680, 41U1680-PTX, 41U1682, 41U1682-PTX, 44A507014-G08B, 44A507014-G10, 44A509160-G02/G03, 44D7762, 45U3891, 45U3891-PTX, 45U3895, 45U3895-PTX, 45U3900, 45U3900-PTX, 45U4817, 4A0040B02, 4A0040B05, 4A0040B05-4P, 4A0040B13, LA40R-KA, LGXXR-LR, LGXXR-SR, P5000U, P5UC30S-V06, P5UC50L-V06, P7EL30-004, P7UCX90-V06,

Chemical Family: Mixture

Manufacturer’s name and address: Printronix Inc.
15345 Barranca Parkway
Irvine, CA 92618

Information Telephone #: 1 (714) 368-2300

24 Hr. Emergency Telephone #: CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887.

SECTION 2: HAZARDS IDENTIFICATION

Classification:

Serious eye damage/eye irritation	Category 1
Skin irritation	Category 2
Eye irritation	Category 2A
Acute toxicity Oral	Category 3
Acute toxicity, Dermal	Category 3
Acute toxicity, Inhalation	Category 2
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity – single exposure	Category 3

Resp. System

Labeling:

Symbols:



Signal Word:

Danger





Hazard statements:

H301 + H311	Toxic if swallowed or in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary statements:

P202	Do not handle until all safety precautions have been read and understood
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash skin thoroughly after handling
P273	Avoid release to the environment
P281	Use personal protective equipment as required
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305+351+338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention P337 + P313
P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P501	Dispose of contents/container to an approved waste disposal plant

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS #	Wt. %	GHS Classification	Hazard Statements	Pictograms
Oleic Acid	112-80-1	40 - 60	Skin Irritation (Cat 2)	H315	
Sorbitan trioleate	26266-58-0	5 - 10	Skin Irritation (Cat 2)	H315	
4-(phenylazo)benzene-1,3-diamine	495-54-5	1 - 3	Acute toxicity, Oral (Cat. 4) Skin irritation (Cat. 2) Eye irritation (Cat. 2A) Specific target organ toxicity – single exposure (Cat. 3), Respiratory system	H302 H315 H319 H335	
Aniline	62-53-3	< 0.20	Flammable Liquids (Cat 4) Acute toxicity, Oral (Cat. 3) Acute toxicity, Inhalation (Cat. 2) Acute toxicity, Dermal (Cat. 3) Skin irritation (Cat. 2) Serious eye damage (Cat. 1) Skin sensitization (Cat. 1) Germ cell mutagenicity (Cat. 2) Carcinogenicity (Cat 2) Acute Aquatic Toxicity (Cat. 1) Chronic Aquatic Toxicity (Cat. 1)	H227 H301 H330 H311 H315 H318 H317 H341 H351 H400 H410	

SECTION 4: FIRST AID MEASURES

Inhalation:	Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Seek immediate medical attention/advice.
Skin contact:	Immediately flush with plenty of water, while removing contaminated clothing. When symptoms persist or in all cases of doubt, seek medical advice.
Eye contact:	Flush eyes with water for at least 15 minutes while holding eyelids open. When symptoms persist or in all cases of doubt, seek medical advice.
Ingestion:	Seek immediate medical attention/advice. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
Notes for physician:	Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, carbon dioxide and water fog

Fire hazards/conditions of flammability: This material is not flammable.

Explosion data: Sensitivity to mechanical impact / static discharge: Not expected to be sensitive to mechanical impact or static discharge.

Special fire-fighting procedures/equipment: Firefighters should wear protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

Hazardous combustion products: Oxides of carbon and nitrogen, irritating fumes and smoke.

NFPA Rating: Health: 2 Flammability: 1 Instability: 0 Special Hazards: 0

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: All persons dealing with clean-up should wear the appropriate protective equipment. Do not eat, drink or smoke while participating in clean up.

Environmental precautions: Ensure spilled product does not enter drains, sewers, waterways or confined spaces. For large spills, dike the area to prevent spreading.

Spill response/cleanup: Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required.

Prohibited materials: None specific

Special spill response procedures: In case of a transportation accident, in the United States contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Wear suitable protective equipment during handling. Do not ingest. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

Conditions for safe storage: Store in a cool, dry, well-ventilated area. Store away from incompatibles, temperature extremes and out of direct sunlight. Inspect periodically for damage or leaks.

Incompatible materials: Strong oxidizing agents; strong reducing agents; acids

Special packaging materials: Always keep in containers made of the same materials as the supply container.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters:

Component	CAS No.	Value	Control Parameters	Source
Aniline	62-53-3	TWA	2 ppm	USA ACGIH Threshold Limit Values (TLV)
			Remarks	Methemoglobinemia Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption
		TWA	5 ppm 19 mg/m3	USA OSHA Table Z-1 Limits for Air Contaminants
			Remarks	Skin contact does contribute to exposure
		TWA	2 ppm 8 mg/m3	USA OSHA Table Z-1 Limits for Air Contaminants – 1910.1000
			Remarks	Skin contact does contribute to exposure
		TWA	2 ppm 8 mg/m3	USA OSHA Table Z-1 Limits for Air Contaminants – 1910.1000
			Remarks	Skin notation
			Remarks	Potential Occupational Carcinogen See Appendix A

Ventilation and engineering measures: Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection: If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Confirmation of which type of respirator is most suitable for the intended application should be obtained from respiratory protection suppliers.

Skin protection: Impervious gloves must be worn when using this product. Advice should be sought from glove suppliers.

Eye / face protection: Good industrial hygiene practices should be used when handling this product including preventing eye contact and minimizing skin contact and inhalation.

Other protective equipment: As needed to prevent eye contact and minimizing skin contact and inhalation.

General hygiene considerations: Avoid breathing vapor or mist. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove and wash contaminated clothing before re-use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Appearance: Black liquid
Odor: Mild
Odor Threshold: N/Av
Specific Gravity: 0.9
pH: Not applicable
Boiling point: >300 °F
Melting/Freezing point: Not available
Coefficient of water/oil distribution: Not available

Vapor pressure (mm Hg @ 20°C / 68°F): Not available
Vapor density (Air = 1): Heavier than air
Evaporation rate (n-Butyl acetate = 1): Slower than n-Butyl acetate
Solubility in water: Slightly
Flash Point >200 °F, TCC
Auto-ignition temperature Not applicable
Lower flammable limit (% by vol) Not applicable
Upper flammable limit (% by vol) Not applicable
Flame Projection Length Not available
Flashback observed Not available

SECTION 10: STABILITY AND REACTIVITY

Chemical stability: Stable under the recommended storage and handling conditions prescribed.
Possibility of hazardous reactions: None are known.
Conditions to avoid: Avoid heat and open flame.
Materials to avoid and incompatibility: See Section 7 (Handling and Storage) for further details.
Hazardous decomposition products: None known; refer to hazardous combustion products in Section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of exposure:
Inhalation: Vapors and spray mist may irritate throat and respiratory system and cause coughing
Skin contact: May be harmful in contact with skin. Defats the skin. May cause redness and pain.
Eye contact: Corrosive. Prolonged contact causes serious eye and tissue damage.
Ingestion: Not expected to be a route of exposure with proper use. May be harmful if swallowed. Liquid irritates mucous membranes and may cause abdominal pain.

Toxicological data: There is no available data for the mixture itself, only for the ingredients. See below for individual ingredient acute toxicity data.

Ingredient	LD ₅₀ Oral, rat	LD ₅₀ Rabbit, dermal	Skin corrosion/irritation Skin, rabbit	Serious eye damage/eye irritation Eyes, rabbit
Oleic acid	74,000 mg/kg	No data available	Human – Skin irritation – 3 d	Mild eye irritation
Sorbitan trioleate	No data available	No data available	Skin irritation – 24 h	Mild eye irritation
Aniline	250 mg/kg	820 mg/kg	Skin irritation – 24 h	Severe eye irritation
4-(phenylazo)benzene-1,3-diamine	1,650 mg/kg	No data available	No data available	Moderate eye irritation – 24 h

Carcinogenic status:	This product contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP or EPA classification.		
	Aniline	IARC:	3 – Group 3: Not classifiable as to its carcinogenicity to humans
		NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
		OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by OSHA.
Reproductive effects:	No information found		
Teratogenicity:	No information found		
Germ Cell Mutagenicity:	Rat – Liver - Unscheduled DNA synthesis		
4-(phenylazo)benzene-1,3-diamine			
Aniline	Laboratory experiments have shown mutagenic effects In vitro tests showed mutagenic effects.		
Epidemiology:	No information found		
Specific target organ toxicity – single exposure:	Inhalation – May cause respiratory irritation		
4-(phenylazo)benzene-1,3-diamine			
Conditions aggravated by overexposure:	No information found		

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	No data is available on the mixture itself.				
4-(phenylazo)benzene-1,3-diamine:	Toxicity to fish:	LC ₅₀	Oryzias latipes	0.3 mg/l	48 h
Oleic acid:	Toxicity to fish:	LC ₅₀	Fathead Minnow	205 mg/l	96 h
Aniline	Toxicity to fish:	LC ₅₀	Oncorhynchus mykiss	10.96 mg/l	96 h
	Toxicity to aquatic invertebrates:	EC ₅₀	Daphnia magna (water flea)	80 - 380 mg/l	48 h
	Toxicity to algae:	EC ₅₀	Selenastrum	19 mg/l	72 h
Mobility:	No data is available on the mixture itself.				
Persistence:	No data is available on the mixture itself.				
Bioaccumulation potential:	No data is available on the mixture itself.				
Other adverse environmental effects:	The ecological characteristics of this mixture have not been fully investigated.				

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal recommendations: Do not discharge into drains, water courses or onto the ground. Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Hazardous Waste Code /RCRA: Not regulated.

SECTION 14: TRANSPORT INFORMATION

This material is not UN / IATA regulated.

This material is not classified as ICAO/IATA-DGR Dangerous Goods.

This material is not classified as hazardous per the IMDG Code.

This material is not classified as hazardous per ADR.

This material is not classified as hazardous per the U.S. Department of Transportation (DOT).

This material is not UN / IATA regulated.

Marine Pollutant: No

SECTION 15: REGULATORY INFORMATION

Inventory Status: All listed ingredients appear on the Toxic Substances Control Act (TSCA) Inventory, EINECS/ELINCS, AICS, and DSL.

This material is classified as hazardous under OSHA regulations (29CFR 19410.1200). See Section 2.

SARA 302: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: Aniline < 0.2% CAS No. 62-53-3

SARA 311/312 : Acute Health Hazard, Chronic Health Hazard

SARA 313: Subject to reporting levels established by SARA Title III, Section 313: Aniline < 0.2% CAS No. 62-53-3

RCRA CODE: None

Hazardous Air Pollutants (HAPS): Aniline < 0.2%

US State “Right to Know” Laws:

California Proposition 65: Aniline CAS No. 62-53-3 <0.2%

Other US State “Right To Know” Lists:

The following chemicals are specifically listed by individual states: 4-(phenylazo)benzene-1,3-diamine (NJ, PA)
 Oleic acid (PA, NJ)
 Sorbitan trioleate (NJ, PA)
 Aniline (MA, PA, NJ)

International Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

SECTION 16: OTHER INFORMATION

HMIS Rating: Health: *2 Flammability: 1 Reactivity: 0
 *Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4- Severe

Legend:

- ACGIH American Conference of Governmental Industrial Hygienists
- CAS Chemical Abstract Services
- CERCLA Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR Code of Federal Regulations
- DOT Department of Transportation
- EPA Environmental Protection Agency
- HMIS Hazardous Material Identifications System
- HSDB Hazardous Substances Data Bank
- IARC International Agency for Research on Cancer
- Inh Inhalation
- MSHA Mine Safety and Health Administration
- NFPA National Fire Protection Association
- NIOSH National Institute of Occupational Safety and Health
- NTP National Toxicology Program
- OSHA Occupational Safety and Health Administration
- PEL Permissible exposure limit
- RCRA Resource Conservation and Recovery Act
- RTECS Registry and Toxic Effects of Chemical Substances
- SARA Superfund Amendments and Reauthorization Act
- STEL Short Term Exposure Limit
- TDG Canadian Transportation of Dangerous Goods Act and Regulations
- TLV Threshold Limit Values
- TPQ Threshold Planning Quantity
- TSCA Toxic Substances Control Act
- TWA Time Weighted Average
- WHMIS Workplace Hazardous Materials Identification System

- References:**
1. ACGIH, Threshold Limit Values and Biological Exposure Indices
 2. International Agency for Research on Cancer Monographs
 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases (Chempendium, HSDB and RTECs)
 4. Material Safety Data Sheets for manufacturers
 5. US EPA Title III List of Lists
 6. California Proposition 65 List

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.