

SECTION 1: IDENTIFICATION

Product Identifier: Black Laundry Ink 104-LDO
 Product Code(s): 104-LDO
 Product Use: Printer Ribbons
 Chemical Family: Mixture
 Manufacturer's name and address: DB Products, Inc.
 120 Unit B Keystone Dr.
 Montgomeryville, PA 18936
 Information Telephone #: 1 (215) 628-0416
 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 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
P313	If eye irritation persists: Get medical advice/attention.
P362	Remove 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	60 - 80	Skin Irritation (Cat 2)	H315	
Sorbitan trioleate	26266-58-0	5 - 10	Skin Irritation (Cat 2)	H315	
Aniline	62-53-3	< 0.02	Skin Irritation (Cat 2) Eye Irritation (Cat 2A) Specific target organ toxicity- single exposure (Cat. 3) Respiratory system	H315 H319 H335	

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:	Remove contaminated clothing. Wash skin with soapy water. If irritation or redness persists, seek medical advice.
Eye contact:	Flush eyes with water for at least 15 minutes. When symptoms persist seek medical advice.
Ingestion:	DO NOT INDUCE VOMITING. Seek immediate medical attention. 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:	Not expected to be sensitive to mechanical impact or static discharge.
Fire-fighting procedures:	Firefighters should wear protective equipment and self-contained breathing apparatus with full face shield operated in positive pressure mode. Move containers from fire area if safe to do so.
Hazardous combustion products:	Oxides of carbon and nitrogen, heavy black smoke may be formed during fire.
NFPA Rating:	Health: 2 Flammability: 1 Instability: 0 Special Hazards: 0

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions:	Persons cleaning-up should wear appropriate protective equipment. Do not eat, drink, or smoke while participating in clean up.
Environmental precautions:	Do not allow product to enter drains, sewers, or waterways. For large spills, dike the area to prevent spreading.
Spill response/cleanup:	Use absorbent, inert material such as kitty litter or towels to contain and absorb liquid and place into a container for later disposal (see Section 13). Notify appropriate authorities as required.
Prohibited materials:	None specific.
Special spill response procedures:	In case of transportation accident, in the US 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.
Incompatible materials:	Strong oxidizing agents, strong reducing agents, acids
Special packaging materials:	Always keep in containers made of the same material as 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/m ³	USA OSHA Table Z-1 Limits for Air Contaminants
			Remarks	Skin contact does contribute to exposure
		TWA	2 ppm 8 mg/m ³	USA OSHA Table Z-1 Limits for Air Contaminants - 1910.1000
			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.

Eyes/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, chew gum or smoke 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/ Odor: Black liquid with mild odor
 Odor Threshold: N/A
 Specific Gravity: 0.9
 Boiling point: > 300 F
 Melting/Freezing point: Not available
 Vapor pressure: Not available
 Vapor density: Heavier than air
 Evaporation rate (n-Butyl acetate =1): Slower than n-Butyl acetate
 Solubility: not soluble
 Flash Point: > 200 F, TCC
 Auto-ignition temperature: Not applicable

SECTION 10: STABILITY AND REACTIVITY

Chemical stability: Stable under the recommended storage conditions prescribed.
 Possibility of hazardous reactions: None known
 Conditions to avoid: Avoid heat and open flame.
 Materials to avoid and incompatibility: See Section 7
 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. May cause redness and irritation.
- Eye contact:* Corrosive. Prolonged contact causes serious eye and tissue damage.
- Ingestion:* A single dose may be toxic if swallowed.

Toxicological data: There is no data available 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	Serious eye damage/ eye irritation
Oleic acid	74,000 mg/kg	no data available	Skin, rabbit Human- skin irritation- 3 d	Eyes, rabbit Mild eye irritation
Sorbitan trioleate	no data available		Skin irritation - 24 h	Mild eye irritation
Aniline	250 mg/kg	820 mg/kg	Skin irritation - 24 h	Severe eye irritation

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:
Aniline Lab experiments have shown mutagenic effects
in vitro tests showed mutagenic effects.

Epidemiology: No information found

Specific target organ toxicity- single exposure: No information found.

Conditions aggravated by overexposure: No information found.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No data available on the mixture itself.

Oleic acid:	Toxicity to fish:	LC50	Fathead Minnow 205 mg/l 96 h
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Aniline	Toxicity to fish:	LC50	Oncorhynchus mykiss 10.96 mg/l 96 h
	Toxicity to algae:	EC50	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: Ecological characteristics of this mixture have not been fully investigated.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal recommendations: Do not discharge into drains, waterways or onto the ground. Disposal recommendations are based on material as supplied in liquid form. Disposal must be in accordance with current applicable laws and regulations.

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 or the US Dept. of Transportation (DOT).

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 (29 CFR 19410.1200). See section 2.

SARA 302: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: Aniline < 0.02% CAS No. 62-53-3

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

SARA Title III, Section 313: Aniline < 0.02% CAS No. 62-53-3

RCRA CODE: None

Hazardous Air Pollutants (HAPS): Aniline < 0.02%

US State Right to Know Laws:

California Proposition 65: Aniline CAS No. 62-53-3 <0.02%

Other US State Right to Know Lists:

The following are specifically listed by individual states:

Oleic acid (PA, NJ)
Sorbitan trioleate (NJ, PA)
Aniline (MA, PA, NJ)

Canadian Environmental Protection Act (CEPA):

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.