PLASTISOL BLACK INK

Version Number 1.0 Revision Date 04/22/2024



Page 1 of 16 Print Date 10/30/2024

SAFETY DATA SHEET

PLASTISOL BLACK INK

Section 1. Identification		
GHS product identifier	ENORME PLASTISOL BLACK INK	
Chemical name	Mixture	
CAS number	: Mixture	
Other means of identification	: ENORME-PL-1827	
Product type	: Paste	
<u>Relevant identified uses of the sub</u> Company name	: D3 Industrial Products INC.	
Address	: 11968 Monarch st, Garden Grove, 92841 California, USA	
Emergency Phone	North America: 1-800-255-3924 International: + 1-813-248-0585	
E-mail	: <u>info@enormeink.com</u>	

Section 2. Hazards identification

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and the potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.
GHS label elements		
Signal word	:	No signal word.
Hazard statements	:	No known significant effects or critical hazards.

PLASTISOL BLACK INK

Version Number 1.0 Revision Date 04/22/2024

Enormè

Page 2 of 16 Print Date 10/30/2024

Precautionary statements

	:	Not applicable.
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.
		Not available.

Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	ENORME-PL-1827

CAS number/other identifiers

Component	CAS No	Concentration (%)
PolyVinylChloride (*)	9002-86-2	30-40 %
1,6-bis(7-methyloctyl) hexanedioate	33703-08-1	55-68 %
Carbon Black Pigment	1333-86-4	2-5%
C C		

1. 1.1

ът .

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Immediately flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately.

PLASTISOL BLACK INK



Version Number 1.0 Revision Date 04/22/2024		Page 3 of 16 Print Date 10/30/2024
Inhalation	:	Get victim to fresh air. Give artificial respiration or oxygen if breathing has stopped. Get prompt medical attention. Do not give fluids if the victim is unconscious. If the victim doesn't feel good, immediately call the National Poison Control Center (phone: 114)
Skin contact	:	Seek medical attention immediately. Immediately flush skin with plenty of water while removing contaminated clothing. Wash contaminated clothing before reuse. If

Ingestion: Harmful if swallowed. Do NOT induce vomiting. Never give anything
by mouth to an unconscious person. If vomiting occurs, to open the
airway of victim's and for prevent aspire, lean to the left side if
possible (head down). Immediately consult a doctor with the product
label (if possible)

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact Inhalation Skin contact Ingestion	:	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Over-exposure signs/symptoms		
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Indication of immediate medical att	entio	n and special treatment needed, if necessary
Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

PLASTISOL BLACK INK

Version Number 1.0 Revision Date 04/22/2024



P	age 4 of 16
Print Date	10/30/2024

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO ₂ . None known.
Specific hazards arising from thechemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	May emit Hydrogen Chloride (HCl). Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
Special protective actions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment	nt ar	nd cleaning up
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

PLASTISOL BLACK INK

Version Number 1.0 Revision Date 04/22/2024

Enormè

Page 5 of 16 Print Date 10/30/2024

Large spill

Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep the container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

:

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
PolyVinylChloride (*)	OSHA PEL 1989 (1989-03-01) TWA 1 ppm [0.5 ppm Action Level] OSHA PEL (1993-06-30) TWA 5 ppm [15 minutes] Form: Total dust CAL/OSHA PEL TWA 1ppm Form: respirable fraction, nanoscale particles
1,6-bis(7-methyloctyl) hexanedioate	OSHA PEL 1989 (1989-03-01) NOT ESTABLISHED OSHA PEL (1993-06-30)

PLASTISOL BLACK INK



Version Number 1.0 Revision Date 04/22/2024

Page 6 of 16 Print Date 10/30/2024

		NOT ESTABLISHED CAL/OSHA PEL
		NOT ESTABLISHED
		NOTESTABLISHED
Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be
		necessary to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Protective goggles against the risk of splash.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	:	May cause skin irritation and burns; use resistance gloves.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

PLASTISOL BLACK INK

Version Number 1.0 Revision Date 04/22/2024

normè

Page 7 of 16 Print Date 10/30/2024

Appearance

Physical state Color Odor Odor threshold pH Melting point Boiling point	: : : : : : : : : : : : : : : : : : : :	Black, paste BLACK Faint odor. Not available. N/A. Not available. 212 °F.
Boiling point Flash point Density	:	

Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Lower: Not applicable.
(flammable) limits		Upper: Not applicable.
Vapor pressure	:	Not available.
Vapor density	:	Not applicable.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	Insoluble in water.
Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature SADT Viscosity	: : :	Not available. Not available. : [(25 °C/77°F) sp: 7, rpm: 2 Brookfield] : 1.900.000 – 2.000.000 [mPa.s]

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity are available for this product or its ingredients.
Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).
	7/16

PLASTISOL BLACK INK

Version Number 1.0 Revision Date 04/22/2024



Page 8 of 16 Print Date 10/30/2024

Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Avoid contact with acetal homopolymers and acetyl homopolymers during processing.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1,6-bis(7-methyloctyl) hexaned	lioate			
	LD50 Oral	Rat – Male and female	> 5.000 mg/kg	-
	LD50 Dermal	Guinea pig	> 19.680 mg/kg	-
	LD50 Intraperitonal	Rat - male	> 3.200 mg/kg	-

Conclusion/Summary

: Mixture. Not fully tested.

Irritation/Corrosion

Skin Rabit		
Skin	:	There is no skin irritation - 4 H (OECD test guideline 404)
Eyes	:	There is a small amount of eye irritation (OECD test guideline 405)
Respiratory	:	Appropriate data are not available

Sensitization

Conclusion/Summary Skin Respiratory	:	Mixture. Not fully tested. Mixture. Not fully tested.
Mutagenicity		
Conclusion/Summary	:	Mixture. Not fully tested.
<u>Carcinogenicity</u>		

PLASTISOL BLACK INK

Version Number 1.0 Revision Date 04/22/2024 Page 9 of 16 Print Date 10/30/2024

Conclusion/Summary

Mixture. Not fully tested.

Classification

Product/ingredient name	OSHA	IARC	NTP
PolyVinylChloride (*)	-	2B	-
1,6-bis(7-methyloctyl)	-	-	-
hexanedioate			
Carbon Black	-	2B	-

Reproductive toxicity

Conclusion/Summary : Mixture.Not fully tested.

:

:

Teratogenicity

Conclusion/Summary

Mixture.Not fully tested.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of : Not available. **exposure**

Potential acute health effects

Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure



PLASTISOL BLACK INK

Version Number 1.0 Revision Date 04/22/2024

Enormè

Page 10 of 16 Print Date 10/30/2024

Short term exposure

Potential immediate effects Potential delayed effects	:	Not available. Not available.
Long term exposure		
Potential immediate effects Potential delayed effects	:	Not available. Not available.
Potential chronic health effects		
Conclusion/Summary	:	Mixture. Not fully tested.
General	:	No known significant effects or critical hazards.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	Not available.
Developmental effects	:	Not available.
Fertility effects	:	No known significant effects or critical hazards.

Acute toxicity estimates N/A

Other information

: This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
1,6-bis(7-methyloctyl)	96 hr Acute LC50 > 500 Mg/l	Fish - Fundulus heteroclitus	96 h
hexanedioate	Marine water		



PLASTISOL BLACK INK

Version Number 1.0 Revision Date 04/22/2024

Page 11 of 16 Print Date 10/30/2024

	24 hr Acute EC50 100 Mg/l Fresh	Crustaceans - Ceriodaphnia	48 h		
	water	dubia			
	48 hr Acute LC50 500	Daphnia - Daphnia pulex	48 h		
	Mg/l Freshwater				
PolyVinylChloride (*)					
Remarks - Acute - Aquatic invertebrates.:	Chemicals are not readily available	as they are bound within the pol	ymer matrix.		
Conclusion/Summary	: Chemicals are not readily available as they are bound within the polymer matrix.				
<u>Persistence and degradability</u> Conclusion/Summary	: Chemicals are not reading polymer matrix.	ly available as they are bound w	thin the		
Conclusion/Summary	: Chemicals are not readi polymer matrix.	ly available as they are bound w	thin the		

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
PolyVinylChloride (*)	-	-	low
1,6-bis(7-methyloctyl) hexanedioate	-	~100-500	low
Carbon Black	-	<10	low

Mobility in soil

Soil/water partition coefficient (KOC)

Not available.

:

:

Other adverse effects

No known significant effects or critical hazards.

PLASTISOL BLACK INK

Version Number 1.0 Revision Date 04/22/2024

Enormè

Page 12 of 16 Print Date 10/30/2024

Section 13. Disposal considerations

Disposal methods The generation of waste should be avoided or minimized wherever : possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

Section 14. Transport information

U.S.DOT 49CFR Ground/Air/Water	:	Not regulated for transportation.
International Air ICAO/IATA	:	Not classified as dangerous goods under transport regulations.
International Water IMO/IMDG	:	Not classified as dangerous goods under transport regulations.

Section 15. Regulatory information

U.S. Federal regulations	: United States - TSCA 12(b) - Chemical export notification: None of the components are listed.
	United States - TSCA 4(a) - Final Test Rules: Not listed United States - TSCA 4(a) - ITC Priority list: Not listed United States - TSCA 4(a) - Proposed test rules: Not listed
	United States - TSCA 4(f) - Priority risk review: Not listed
	United States - TSCA 5(a)2 - Final significant new use rules: Not
	listed 12/16

PLASTISOL BLACK INK



Version Number 1.0 Revision Date 04/22/2024		Page 13 of 16 Print Date 10/30/2024
		 United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Not listed United States - TSCA 6 - Proposed risk management: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined United States - TSCA 8(a) - Preliminary assessment report (PAIR): Listed United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 8(d) - Health and safety studies: Not listed
		pollutants: Listed United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed United States - Department of commerce - Precursor chemical: Not listed
Hazardous Air Pollutants (HAPs)	:	Listed
Clean Air Act Section 602 Class I Substances	:	Not listed
Clean Air Act Section 602 Class II Substances	:	Not listed

- **DEA List I Chemicals (Precursor** : Not listed **Chemicals**)
- **DEA List II Chemicals (Essential** : Not listed **Chemicals**)

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification

: Not applicable.

PLASTISOL BLACK INK

Version Number 1.0 Revision Date 04/22/2024 Page 14 of 16 Print Date 10/30/2024

Composition/information on ingredients

Name	%	Classification	
Polyvinylchloride	30-40 %	CARCINOGENICITY - Category 1	
Carbon Black	2-5%	CARCINOGENICITY - Category 2B	
		COMBUSTIBLE DUSTS	
		SKIN IRRITATION – category 2 EYE IRRITATION - category 2	

Not applicable.

<u>State regulations</u> Massachusetts	: The following components are listed: 9002-86-2
New York New Jersey	 None of the components are listed. The following components are listed: 9002-86-2
Pennsylvania	: The following components are listed: 9002-86-2

California Prop. 65

Ingredient name	No significant risk level	Maximum acceptable dosage level
-	-	-

United States inventory (TSCA 8b)	:	Not determined.
Canada inventory	:	Not determined.
International regulations Inventory list		
Australia	:	Not determined.
Canada	:	Not determined.
China	:	Not determined.
Eurasian Economic Union	:	Russian Federation inventory: Not determined.
Japan	:	Japan inventory (CSCL): Not determined.
-		Japan inventory (ISHL): Not determined.
New Zealand	:	Not determined.
		14/16

PLASTISOL BLACK INK

Version Number 1.0 Revision Date 04/22/2024



Page 15 of 16 Print Date 10/30/2024

Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	Not determined.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States	:	Not determined.
Viet Nam	:	Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	/	1
Flammability		1
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

<u>History</u>		
Date of printing	:	10/30/2024
Date of issue/Date of revision	:	04/22/2024
Date of previous issue	:	00/00/0000
Version	:	1.0
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of
		Chemicals
		IATA = International Air Transport Association
		IBC = Intermediate Bulk Container
		IMDG = International Maritime Dangerous Goods
		LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Shine 1973 as modified by the Pretocol of 1978. ("Marpol" = marine
		Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	:	Not available.

PLASTISOL BLACK INK

Version Number 1.0 Revision Date 04/22/2024



Page 16 of 16 Print Date 10/30/2024

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.