

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Uniplex 105  
**Synonyms:** Diethyl Phthalate, DEP

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### MANUFACTURER:

Unitex Chemical Corporation  
  
520 Broome Rd.  
P.O. Box 16344  
Greensboro, NC 27406

### EMERGENCY TELEPHONE NUMBERS:

Emergency Telephone Number: CHEMTREC 1 (800) 424-9300  
International 1 (703) 527-3887  
  
Telephone Number for Information:  
(336) 378-0965 (Monday - Friday 8:00 a.m. - 5:00 p.m.)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>% (optional)</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>CAS NO.</u>
Diethyl Phthalate	> 99%	None Established	5 mg/m <sup>3</sup> 3hr TWA	84-66-2

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## 3. HAZARDS IDENTIFICATION

Emergency Overview: Clear, oily liquid, may be irritating to mucous membranes and eyes; can cause central nervous system depression when ingested. Normally, not irritating to, or absorbed through the skin.

Potential Health Effects: High vapor concentrations are irritating to nose, throat, lungs, and eyes. May cause depression of central nervous system, if swallowed.

Eye Contact: Irritating, but no permanent damage if washed out from eyes promptly with water.

Skin Contact: May be mildly irritating to the skin.

Ingestion: **DO NOT INGEST.** May cause central nervous system depression.

Chronic: ND (Not determined)

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## 4. FIRST AID MEASURES

Inhalation: Remove victim to fresh air; give artificial respiration if breathing has stopped. Get medical attention promptly.

Eye Contact: Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

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Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. If irritation persists, get medical attention.

Ingestion: If swallowed, do not induce vomiting; get prompt medical attention

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**5. FIRE FIGHTING MEASURES**

Flash Point: 295° F (COC)

LEL: (368° F) 0.7%

General Hazard: Uniplex 105 will burn if involved in fire; Carbon Dioxide and Carbon Monoxide will be formed upon combustion.

Fire Fighting Instructions: Extinguish with water fog or spray, CO2, dry chemical, foam, or earth/mud. **DO NOT** use direct water stream, as material will be spread--treat as burning oil.

Hazardous Combustion Products: Carbon Dioxide, Carbon Monoxide.

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**6. ACCIDENTAL RELEASE MEASURES**

Land Spill: Contain spill and pump into containers for disposal. Avoid runoff into sewers and storm drains. Contain small spills and absorb with an inert material, such as sand or vermiculite.

Water Spill: Remove from water surface by skimming or with suitable absorbents, such as straw.

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**7. HANDLING AND STORAGE**

Storage Temperature: Ambient                      Storage Pressure: Pressureless

General: General warehousing conditions are satisfactory for this material.

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**8. EXPOSURE CONTROL/PERSONAL PROTECTION**

Engineering Controls: Local exhaust ventilation is recommended to keep exposure below limits--see Section 2 for exposure guidelines.

Personal Protection: If concentrations are over exposure limit, use OSHA-approved respirator.

Respirator: Use OSHA-approved respirator if concentrations are above exposure limits--See Section 2.

Protective Clothing: Splash proof goggles and vinyl, or rubber gloves. Exercise good chemical handling practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure	: <u>0.002mm at 77°F</u>	Vapor Density (Air=1)	: <u>ND</u>
Specific Gravity	: <u>Approx. 1.12</u>	Evaporation Rate	: <u>&lt;1 (Butyl Acetate = 1)</u>
Solubility in Water	: <u>0.1% 77°F</u>	Freezing Point	: <u>-41°F</u>
pH	: <u>NA</u>	Odor	: <u>Mild, characteristic ester odor</u>
Boiling Point	: <u>298°C</u>	Appearance	: <u>Clear, oily liquid</u>
Viscosity	: <u>ND</u>	Physical State	: <u>Liquid</u>

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## 10. STABILITY AND REACTIVITY

General: Stable under normal warehousing, handling, and use conditions.

Incompatible Materials and Conditions to Avoid: Strong oxidizing agents.

Hazardous Decomposition: Carbon dioxide and carbon monoxide.

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## 11. TOXICOLOGICAL INFORMATION

LD50 (Rat): > 5000mg/Kg intraperitoneal injection

Skin Sensitization (Guinea Pig): None. Skin sensitization (Human): None.

Eye Irritation (Rabbit): Slight. Eye Irritation (Human): Slight.

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## 12. ECOLOGICAL INFORMATION

BOD (5-day): 1.18g oxygen/g. COD: 1.7g oxygen/g.

Acute Aquatic Effects: 48 hour EC-50 (daphnia): > 41 ml/L

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## 13. DISPOSAL CONSIDERATIONS

Incineration by a permitted hazardous waste facility in accordance with all local, state, and federal regulations is the preferred method of disposal.

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## 14. TRANSPORT INFORMATION

DOT shipping Name: "Environmentally Hazardous Substance, Liquid, N.O.S., 9, UN 3082, PG III, RQ (Diethyl Phthalate)".

Hazard Class: 9 Identification No. UN 3082

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Emergency Response Guide #171

IMDG Status: Not Regulated

TDG (Canada): Not Regulated

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**15. REGULATORY INFORMATION**

OSHA Status: This product is a hazardous chemical under 29 CFR 1200.

TSCA Status: Registered on TSCA Inventory

SARA Title III:

Section 302 Extremely Hazardous Substances: None

Sections 311/312 Hazard Categories: Immediate Health Hazard/Delayed Health Hazard

Section 313 Toxic Chemicals: Reportable

RCRA Status: Hazardous Waste Code U102.

California Proposition 65: Not included on the list of chemicals known to the State to cause cancer or reproductive toxicity.

Massachusetts Substance List: Diethyl Phthalate

New Jersey Workplace Hazardous Substance List: Diethyl Phthalate

Pennsylvania Hazardous Substance list: Diethyl Phthalate.

WHMIS (Canada) Ingredient Disclosure list: Diethyl Phthalate.

WHMIS (Canada) Status: Noncontrolled

DSL Status: Registered on DSL Inventory (Canada)

EINECS No.: 201-550-6

ENCS No.: 3-1301X (Japan)

ECL Serial No.: 3-1035 (Korea)

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**16. OTHER INFORMATION**

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*This information is furnished without warranty, expressed or implied. The data in this MSDS relates only to the specific material designated therein. Unitex Chemical Corporation assumes no legal responsibility for use or reliance upon this data. This form complies with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.*

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Diethyl Phthalate is not listed by IARC, ACGIH, NTP, or OSHA as a carcinogen.

Hazard Ratings		
	NFPA	HMIS
Health	1	1
Flammability	1	1
Reactivity	0	0

Revision Summary:

1/7/97 - Update to 1996 North American Emergency Response Guidebook

3/11/97 - J. Day

1/26/98 - J. Day

8/3/98 - J. Day (Area Code Chg.)