



Rutland Plastic Technologies, Inc.  
 10021 Rodney Street  
 Pineville, NC 28134

## MATERIAL SAFETY DATA SHEET

### 1. Chemical Product and Company Identification

**MANUFACTURING LOCATION:**

Rutland Plastic Technologies, Inc.  
 10021 Rodney Street  
 Pineville, NC 28134  
 704/553-0046

**HAZARDOUS MATERIAL INFORMATION SYSTEM:**

<b>Health:</b>	<b>1</b>
<b>Flammability:</b>	<b>0</b>
<b>Reactivity:</b>	<b>0</b>
<b>Personal Protection:</b>	<b>B</b>

**IN CASE OF EMERGENCY CONTACT:** 704/553-0046

**PRODUCT NAME:** Morpaque  
**CHEMICAL FAMILY:** Mixture  
**PRODUCT CODE:** M00021

**MSDS NUMBER:** 62  
**DATE REVISED:** 1/3/01  
**DATE PRINTED:** 4/8/01

### 2. Hazardous Ingredients

HAZARDOUS INGREDIENT	CAS #	% BY WEIGHT	TLV	PEL
Di (2-Ethylhexyl) Phthalate (DEHP)	117-81-7	<5%	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** In 1980, the National Cancer Institute (NCI) reported a two year study which indicated that a specific strain of rat and mouse, when fed at extremely high doses of DEHP, exhibited a statistically significant increase in liver tumors. This single NCI study was sufficient to satisfy the legislative requirement to list DEHP as a suspected animal carcinogen. Prior bioassays at only slightly lower dietary levels have shown no tumor formation.

**EYE CONTACT:** May cause eye irritation

**SKIN CONTACT:** May cause skin irritation

**INGESTION:** Abdominal cramps, nausea, diarrhea

### 3. HAZARDS IDENTIFICATION (CONTINUED)

**INHALATION:** Heated vapors or mists may cause nausea and respiratory tract irritation. The low vapor pressure of this material essentially eliminates an inhalation hazard unless the product is heated or misted.

### 4. FIRST AID MEASURES

**EYES:** Flush immediately with water for 15 minutes. Get medical attention.

**SKIN:** Remove contaminated clothing. Wash thoroughly with soap and water.

**INHALATION:** Remove to fresh air for relief. Get medical attention if necessary.

**INGESTION:** If victim is conscious, give liquids. Get medical attention.

**MEDICAL CONDITIONS AGGRAVATED:** None known

### 5. FIRE FIGHTING MEASURES

**FLASH POINT (° F):** >200 (COC)

**OSHA FLAMMABILITY CLASSIFICATION:** None

**EXTINGUISHING MEDIA:** Water spray, Dry chemical, or protein type air foams.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self contained breathing apparatus.

**EXPLOSION LIMITS IN AIR - LOWER (%):** Not determined

**EXPLOSION LIMITS IN AIR - UPPER (%):** Not determined

**AUTO IGNITION TEMP (° F):** Not determined

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** May evolve a flammable gas (less than 8% based on the total weight of the product) at elevated temperatures. This could cause closed containers to expand.

### 6. ACCIDENTAL RELEASE MEASURES

**ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Dike to contain spill. Recover free product. Collect remaining product with absorbent materials..

### 7. HANDLING AND STORAGE

**HANDLING:** Avoid eye and skin contact. Wash thoroughly after handling.

**STORAGE:** Do not store near heat or flame. Material can expand containers. Use caution in opening expanded containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>ENGINEERING CONTROLS:</b>	Use with adequate ventilation.
<b>RESPIRATORY PROTECTION EQUIPMENT:</b>	Not necessary at room temperature.
<b>PROTECTIVE GLOVES:</b>	Recommended
<b>EYE AND FACE PROTECTION:</b>	Safety glasses recommended.
<b>OTHER PROTECTIVE EQUIPMENT:</b>	Usually not required.
<b>VENTILATION:</b>	Local exhaust as needed near processing equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Range/Point:</b>	Not applicable
<b>Vapor Pressure:</b>	Unknown
<b>Vapor Density (AIR=1):</b>	>1
<b>Physical State:</b>	Thick liquid
<b>Color:</b>	White or cream
<b>Odor</b>	Mild ammonia
<b>% Volatile by Weight:</b>	0.2%-4%
<b>VOC (g/l):</b>	2 - 50 g/l
<b>Evaporation Rate (Butyl Acetate=1):</b>	Unknown
<b>Specific Gravity @ 25° C:</b>	0.90-0.95
<b>Weight per gallon:</b>	7.4-7.9

## 10. STABILITY AND REACTIVITY

<b>STABILITY:</b>	This product is stable
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur
<b>HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:</b>	CO, CO <sub>2</sub>
<b>INCOMPATIBILITY (MATERIALS TO AVOID):</b>	None
<b>CONDITIONS TO AVOID:</b>	Storage temperatures above 95° F.

## 11. TOXICOLOGICAL INFORMATION

<b>CARCINOGENICITY:</b>	IARC Group 2B; NTP anticipated carcinogen [Di(2-ethylhexyl) phthalate]
<b>ACUTE ORAL LD50:</b>	30.6 g/kg [Di(2-ethylhexyl) phthalate]
<b>ACUTE DERMAL LD50:</b>	25.0 g/kg [Di(2-ethylhexyl) phthalate]

## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** Di (2-ethylhexyl) phthalate (DEHP)

48 Hour EC/LC50	Daphnia magna	>0.16 mg/l mortality
96 Hour flow-thru, EC/LC50	Rainbow trout	>19.5 mg/l mortality
96 Hour static, EC/LC50	O. mykiss	>100 mg/l mortality

**CHEMICAL FATE INFORMATION:** DEHP released to water systems will biodegrade fairly rapidly (half-life 2-3 weeks) following a period of acclimation. It will also strongly absorb to sediments (log K<sub>oc</sub> 4-5). Phthalate esters are degraded by microbiota and metabolized by fish and animals. They are not expected to biomagnify.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of materials in accordance with the applicable Local, State, and Federal regulations.

## 14. TRANSPORT INFORMATION

Not regulated for shipment in single containers holding 2000 lbs or less.

<b>DOT SHIPPING NAME:</b>	Not applicable
<b>DOT HAZARD CLASS:</b>	Not applicable
<b>UN/NA NUMBER:</b>	Not applicable
<b>DOT PACKING GROUP:</b>	Not applicable
<b>AIR FREIGHT TRANSPORTATION:</b>	Not applicable
<b>OCEAN TRANSPORTATION:</b>	Not applicable

## 15. REGULATORY INFORMATION

**TSCA STATUS:** All components of these products are on the US TSCA Inventory.

**CALIFORNIA PROPOSITION 65:** Di (2-ethylhexyl) phthalate

**SARA 302 EXTREMELY HAZARDOUS SUBSTANCES LIST:** None

**SARA (311,312) HAZARD CLASS:** Acute

**SARA SECTION 313 TOXIC CHEMICALS:** Di (2-ethylhexyl) phthalate 117-81-7 <5%

**CERCLA RQ:** 100 lbs [Di (2-ethylhexyl) phthalate]

**AUSTRALIAN INVENTORY CHEMICAL SUBSTANCES:** Unknown at this time

**CANADIAN INVENTORY:** Di (2-ethylhexyl) phthalate

**EINECS REGULATIONS:** Unknown at this time

**JAPAN:** Unknown at this time

**KOREAN CHEMICAL INVENTORY:** Unknown at this time

## 16. OTHER INFORMATION

### **DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES:**

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