



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:

Health:	2
Flammability:	1
Reactivity:	0
Personal Protection:	B

IN CASE OF EMERGENCY CONTACT: 704/553-0046

PRODUCT NAME: Blowing Agent
CHEMICAL FAMILY: Mixture
PRODUCT CODE: M00045

MSDS NUMBER: 59
DATE REVISED: 4/3/00
DATE PRINTED: 4/8/01

2. Hazardous Ingredients

HAZARDOUS INGREDIENT	CAS #	% BY WEIGHT	TLV	PEL
Di (2-Ethylhexyl) Phthalate (DEHP)	117-81-7	40%		5 mg/m ³

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

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): >400° F

OSHA FLAMMABILITY CLASSIFICATION: NA

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 (%): NA

EXPLOSION LIMITS IN AIR - UPPER (%): NA

AUTO IGNITION TEMP (° F): NA

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

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. Place in labeled, closed container. Caution: Spilled liquid and dry film are slippery.

7. HANDLING AND STORAGE

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

STORAGE: Keep container closed to minimize contact with air which can cause spoilage. Use in a well ventilated area. Do not store near heat or flame.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Range/Point:	Not Available
Vapor Pressure:	Not Available
Vapor Density (AIR=1):	>1
Physical State:	Liquid
Color:	Yellow
Odor	Very low odor
% Volatile by Weight:	<0.2%
Evaporation Rate (Butyl Acetate=1):	<1
Specific Gravity @ 25° C:	1.27-1.30
Weight per gallon:	10.57-10.82

10. STABILITY AND REACTIVITY

STABILITY:	This product is stable
HAZARDOUS POLYMERIZATION:	Will not occur
HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:	CO, CO ₂ , HCl, ammonia, and/or hydrocarbons
INCOMPATIBILITY (MATERIALS TO AVOID):	None
CONDITIONS TO AVOID:	Storage temperatures above 95° F.

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY:	IARC Group 3; NTP anticipated carcinogen [Di(2-ethylhexyl) phthalate]
ACUTE ORAL LD50:	30.6 g/kg [Di(2-ethylhexyl) phthalate]
ACUTE DERMAL LD50:	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_{oc} 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: This product is not a RCRA listed hazardous waste. Product may be coagulated to separate the solids. Dispose of the liquid and solid phases in accordance with all applicable Local, State, and Federal regulations.

14. TRANSPORT INFORMATION

Not regulated for shipment in single containers holding 250 lbs. or less.

DOT SHIPPING NAME: Environmentally Hazardous Substance, liquid, n.o.s.
DOT HAZARD CLASS: 9
UN/NA NUMBER: UN3082
DOT PACKING GROUP: III
AIR FREIGHT TRANSPORTATION: Not applicable
OCEAN TRANSPORTATION: 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 14%

CERCLA RQ: 250 lbs. (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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17. LABEL INFORMATION

SINGLE WORD:	Not applicable
TARGET ORGANS:	Not applicable
EYES:	Not applicable
SKIN:	Not applicable
INHALATION:	Not applicable
INGESTION:	Not applicable
HANDLING:	Not applicable
STORAGE:	Not applicable
ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:	Not applicable
EXTINGUISHING MEDIA:	Not applicable
RIGHT-TO-KNOW CHEMICALS:	Di (2-ethylhexyl) phthalate