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SAL CHEMICAL  
3036 BIRCH DRIVE  
WEIRTON, WV 26062  
304-748-8200



## MATERIAL SAFETY DATA SHEET

REC'D JUN 09 2003

### I. PRODUCT IDENTIFICATION

PRODUCT NAME: DIBUTYL PHTHALATE  
COMMON NAME: DBP, 1,2-Benzenedicarboxylic Acid Dibutyl Ester

COMPANY NAME:  
SUPERIOR OIL COMPANY  
400 W. REGENT STREET  
INDIANAPOLIS, IN 46225

INFORMATION PHONE: (317) 781-4400 // EMERGENCY PHONE: (317) 781-4400

PREPARED DATE: January 8, 1998 // REVISED DATE: November 6, 2001  
PRINTED DATE: November 6, 2001

### II. HAZARDOUS INGREDIENTS

| COMPONENT         | CAS#    | OSHA (TWA) | ACGIH (TWA) | Wt. % |
|-------------------|---------|------------|-------------|-------|
| Dibutyl Phthalate | 84-74-2 | 5 mg/m3    | 5 mg/m3     | 100   |

### III. HAZARDS IDENTIFICATION

HIGH ORAL DOSES OF THIS MATERIAL CAUSE ADVERSE REPRODUCTIVE EFFECTS IN LABORATORY ANIMALS.

HMIS Hazard Ratings: Health - 1, Flammability -1, Reactivity - 0

NOTE: HMIS rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

### IV. FIRST-AID MEASURES

Inhalation: If overexposure, remove to fresh air. Get medical attention if breathing becomes difficulty.

Eyes: Immediately flush with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

Skin: Wash with soap and water. Get medical attention if irritation persists.

Ingestion: Seek medical advice.



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V. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid  
Color: Colorless  
Odor: Odorless  
Specific Gravity (20°C): 1.048  
Vapor Pressure (20°C): 0.0000189 mbar  
Freezing Point: -35°C  
Boiling Point: 340°C  
Viscosity (25°C): 15 mPa.s  
Solubility in Water: 11.2mg/l

VI. FIRE FIGHTING MEASURES

Flash Point (COC, °C): 191  
Autoignition Temperature: 404°C  
Extinguishing Media: Water spray, dry chemical, carbon dioxide, foam  
Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products: Carbon dioxide, carbon monoxide

Unusual Fire and Explosion Hazards: None

VII. STABILITY AND REACTIVITY

Stability: Stable.  
Incompatibility: Material reacts with strong oxidizing agents.  
Hazardous Polymerization: Will not occur

VIII. ACCIDENTAL RELEASE MEASURES

For Small Spills: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.  
For Large Spills: Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams.

IX. HANDLING AND STORAGE

Personal Precautionary Measures: Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: Keep from contact with oxidizing materials.

Storage: Keep container closed.



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X. DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to national, state, or local regulations.

XI. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Ventilation rates should be matched to conditions. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn.

Respirator type: mist, organic vapor

Eye Protection: It is a good industrial hygiene practice to minimize eye contact.

Skin Protection: It is a good industrial hygiene practice to minimize skin contact.

Other Protection: Eye wash and safety shower should be available.

XII. TOXICOLOGICAL INFORMATION

General: High oral doses of this material given to pregnant animals produced some minor abnormalities in their offspring. However, high doses to humans handling this material are not expected since oral consumption is not a likely route of significant exposure. Because this material does not evaporate readily and is not easily absorbed through human skin, it is not expected to produce such effects in humans through inhalation or skin exposure when handled in a manner consistent with the precautionary measures contained in this material safety data sheet.

Toxicity data are not available unless listed below.

|                               |  |
|-------------------------------|--|
| Oral LD-50 (rat):             | 20,000 - 25,000 mg/kg                          |
| Dermal LD-50 ( guinea pig):   | > 2,096 mg/kg> 2 ml/kg (highest dose tested)   |
| Dermal LD-50 ( rabbit):       | > 20,960 mg/kg> 20 ml/kg (highest dose tested) |
| Skin Irritation (guinea pig): | Slight   |
| Skin Irritation (rabbit):     | None   |
| Eye Irritation (human):       | Slight   |

XIII. TRANSPORT INFORMATION

Marine Pollutant Components: Dibutyl Phthalate

Reportable Quantity: 4.5 kg

DOT Shipping Name: Environmentally Hazardous Substance, Liquid, n.o.s.  
(Di-n-Butyl Phthalate)

HAZARD CLASS: 9

Packing group: III

UN/NA Number: UN3082

ICAO Status: Class 9 Packing group III

IMDG Status: Class 9 Packing group III



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XIV. REGULATORY INFORMATION

WHMIS (Canada) Status: Controlled

WHMIS (Canada) Hazard Classification: D/2/A

SARA 311-312 Hazard Classification(s): Delayed (chronic) health hazard

SARA 313: Dibutyl phthalate

Carcinogenicity Classification (components present at 0.1% or more): None

TSCA (US Toxic Substances Control Act): This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): This product is listed on the DSL. Any impurities present in this product are exempt from listing.

EINECS (European Inventory of Existing Commercial Chemical Substances): This product is listed on EINECS (EINECS Number: 201-557-4)

AICS I NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): This product is listed on AICS or otherwise complies with NICNAS.

MITI (Japanese Handbook of Existing and New Chemical Substances): This product is listed in the Handbook or has been approved in Japan by new substance notification.

ECL (Korean Toxic Substances Control Act): This product is listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act.

*DISCLAIMER: The information contained herein is based on current knowledge and experience, no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customers, and the protection of the environment.*