

**SAFETY DATA SHEET**

Revision Date: 02/20/23

**Section 1: Identification****PRODUCT AND COMPANY INFORMATION**

**Product Name:** Di-n-butylphthalate **Molecular Formula:** C<sub>16</sub>H<sub>22</sub>O<sub>4</sub>

**Catalog Number(s):** P-193

**Company:** Scientific Polymer Products, Inc.  
6265 Dean Parkway  
Ontario, NY 14519

**Telephone:** 585/265-0413  
**Fax:** 585/265-1390  
**Website:** www.scipoly.com

**Emergency Phone Number:** 800-255-3924 (CHEM TEL)

**Section 2: Hazards Identification****Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Reproductive toxicity, Category 1B, H360

Acute aquatic toxicity, Category 3, H402

Chronic aquatic toxicity, Category 3, H412

**GHS Label elements, including precautionary statements**

Pictogram



Signal word

Danger

Hazard statement(s)

H360

May damage fertility or the unborn child.

H412

Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P201

Obtain special instructions before use.

P202

Do not handle until all safety precautions have been read and understood.

P273

Avoid release into the environment.

P281

Use personal protective equipment as required.

P308+P313

IF exposed or concerned: Get medical advice/attention.

P391

Collect spillage.

P405

Store locked up.

P501

Dispose of contents/ container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC) or not covered by GHS – none**

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated.  
Use appropriate procedures and precautions to prevent or minimize exposure.

### Section 3: Composition/Information on Ingredients

| Ingredient          | CAS Number | Concentration (%) |
|---------------------|------------|-------------------|
| Di-n-butylphthalate | 84-74-2    | 100               |

### Section 4: First Aid Measures

#### Description of first aid measures

##### General advice

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance

##### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

##### In case of eye contact

Flush eyes with water as a precaution

##### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

#### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

#### Indication of any immediate medical attention and special treatment needed

No data available

### Section 5: Fire-Fighting Measures

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special hazards arising from the substance or mixture

Carbon oxides

#### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### Further information

No data available

### Section 6: Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable closed containers for disposal according to local regulations (see section 13)

#### Reference to other sections

For disposal see section 13.

## Section 7: Handling and Storage

### Precautions for safe handling

Avoid inhalation of vapor or mist.  
For precautions see section 2.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### Specific end use(s)

Laboratory chemicals, Manufacture of substances

## Section 8: Exposure Controls/Personal Protection

### Exposure Guidelines

| Component           | CAS-No. | Value   | Control parameters  | Basis  |
|---------------------|---------|---|---------------------|--|
| Di-n-butylphthalate | 84-74-2 | TWA   | 5 mg/m <sup>3</sup> | US. ACGIH Threshold Limit Values (TLV)   |
|                     | Remarks | Eye & Upper Respiratory Tract irritation<br>Testicular damage |                     |  |
|                     |         | TWA   | 5mg/m <sup>3</sup>  | USA. (OSHA) Table Z-1 Limits for Air Contaminants – 1910.1000                  |
|                     |         | TWA   | 5 mg/m <sup>3</sup> | USA. Occupational Exposure Limits (OSHA) Table Z-1 Limits for Air Contaminants |
|                     |         | TWA   | 5 mg/m <sup>3</sup> | US. NIOSH Recommended Exposure Limits  |

### Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

### Personal protective equipment

#### Eye/face protection

Safety glasses with side shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air purifying respirators are appropriate use a full face respirator type N100(US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage of spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

|    |   |                   |
|----|---|-------------------|
| a) | Appearance                              | Form: Liquid      |
| b) | Odor                                    | No data available |
| c) | Odor Threshold                          | No data available |
| d) | pH                                      | No data available |
| e) | Melting point/freezing point            | No data available |
| f) | Initial boiling point and boiling range | No data available |
| g) | Flash point                             | No data available |
| h) | Evaporation rate                        | No data available |
| i) | Flammability (solid, gas)               | No data available |
| j) | Flammability or explosive limits        |                   |
|    | Upper                                   | No data available |
|    | Lower                                   | No data available |
| k) | Vapor pressure                          | No data available |
| l) | Vapor density                           | No data available |
| m) | Relative density                        | No data available |
| n) | Water solubility                        | Slightly soluble  |
| o) | Partition coefficient: n- octanol/water | No data available |
| p) | Auto-ignition temperature               | No data available |
| q) | Decomposition temperature               | No data available |
| r) | Viscosity                               | No data available |
| s) | Explosive properties                    | No data available |
| t) | Oxidizing properties                    | No data available |

### Other safety information

No data available

## Section 10: Stability and Reactivity

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

No data available

### Conditions to avoid

No data available

### Incompatible materials

Strong oxidizing agents, Nitrates, Bases, acids, Chlorine

### Hazardous decomposition products

Other decomposition products- no data available

In the event of fire: see section 5

## Section 11: Toxicological Information

### Information on toxicological effects

#### Acute toxicity

LD50 Oral-Rat- 8,000 mg/kg

LC50 Inhalation-Rat-4,250 mg/m<sup>3</sup>

LD50 Dermal-Rabbit- >20,860 mg/kg

#### Skin corrosion/irritation

May cause skin irritation

#### Serious eye damage/eye irritation

May cause eye irritation

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

Presumed human reproductive toxicant. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS: TI0875000

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

## Section 12: Ecological Information

**Toxicity:**

|                   |  |                    |
|-------------------|--|--------------------|
| Toxicity to Fish: | LC50 – Pimephales promelas (fathead minnow): | 0.85 mg/l – 96.0 h |
|                   | NOEC – Pimephales promelas (fathead minnow): | 0.32 mg/l – 96.0 h |

**Toxicity to Daphnia & Other Aquatic Invertebrates:** LC50 –Daphnia magna (Water flea): 3.7 mg/l – 96.0 h

**Persistence & Degradability:**

Biodegradability: Result: 81% - Readily biodegradable  
(C.4-C of the COUNCIL REGULATION (EC) No 440/2008)

**Bioaccumulation Potential:**

Bioaccumulation: Pimephales promelas (fathead minnow) – 11 d – 0.0348 mg/l  
Bioconcentration factor (BCF): 2,165

**Mobility in Soil:** No data available

**Results of PBT and vPvB Assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

## Section 13: Disposal Considerations

**Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Chemical waste generators must also consult local, regional and national hazardous waste regulations to ensure complete and accurate classification.

**Contaminated packaging**  
Dispose of as unused product.

## Section 14: Transport Information

### DOT (US)

UN number: 3082                      Class: 9                      Packing group: III  
Proper shipping name: Environmentally hazardous substances, liquid, n.o.s. (Di-n-butylphthalate )  
Marine pollutant: No  
Poison inhalation hazard: No

### IMDG

UN number: 3082                      Class: 9                      Packing group: III  
Proper shipping name: Environmentally hazardous substances, liquid, n.o.s. (Di-n-butylphthalate)  
Marine pollutant: No

### IATA

UN number: 3082                      Class: 9                      Packing group: III  
Proper shipping name: Environmentally hazardous substances, liquid, n.o.s. (Di-n-butylphthalate)

## Section 15: Regulatory Information

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Chronic Health Hazard

### Massachusetts Right To Know Components

|                     |                    |
|---------------------|--------------------|
| Di-n-butylphthalate | CAS No.<br>84-74-2 |
|---------------------|--------------------|

### Pennsylvania Right To Know Components

|                     |                    |
|---------------------|--------------------|
| Di-n-butylphthalate | CAS No.<br>84-74-2 |
|---------------------|--------------------|

### New Jersey Right To Know Components

|                     |                    |
|---------------------|--------------------|
| Di-n-butylphthalate | CAS No.<br>84-74-2 |
|---------------------|--------------------|

### California Prop. 65 Components

WARNING This product contains a chemical known to the State of California to cause birth defects or other reproductive harm

|                     |                    |
|---------------------|--------------------|
| Di-n-butylphthalate | CAS No.<br>84-74-2 |
|---------------------|--------------------|

## Section 16: Other Information

### HMIS Rating

|               |   |
|---------------|---|
| Health:       | 2 |
| Flammability: | 1 |
| Reactivity:   | 0 |

### NFPA Rating

|               |   |
|---------------|---|
| Health:       | 2 |
| Flammability: | 1 |
| Reactivity:   | 0 |

This material is intended for laboratory use only. It is not sold or intended for drug, household or other uses. The information represents the most accurate and complete data currently available to us. However, we make no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use.