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**PHARMCO-AAPER**

AND COMMERCIAL ALCOHOLS

Product Information (203) 740-3471 / Emergency Assistance CHEMTREC 1-800-424-9300

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# MATERIAL SAFETY DATA SHEETS

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**Dibutyl Sebacate**

## CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Dibutyl Sebacate  
Chemical Name: SAME  
Cas Number: 109-43-3  
Molecular Formula: C<sub>18</sub>H<sub>34</sub>O<sub>4</sub>

## COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT CAS NO. %  
Dibutyl Sebacate 109-43-3 100

## HAZARDS IDENTIFICATION

Eyes:

Direct contact can cause very mild irritation.

Skin:

Prolonged or repeated contact may cause mild irritation.

Inhalation:

Based on experience, no effects are expected. As good industrial hygiene practice, avoid breathing vapor from the heated product.

Ingestion:

Not a probable route of entry into the body.

## FIRST-AID MEASURES

Eyes:

In case of contact, immediately flush eyes with plenty of water. Call a physician if signs of irritation appear.

Skin:

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As good industrial hygiene practice, at the end of each work shift, wash skin with plenty of soap and water.

Inhalation:

Remove to fresh air if effects occur from inhalation of vapor from the heated product. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. Call a physician.

Ingestion:

Emergency care should not be needed.

#### **FIREFIGHTING MEASURES**

Flash Point: 380oF Test Method: N/A

Autoignition Temperature: N/A Test Method: N/A

Flammable Limits: Lower: N/A Upper: N/A

Extinguishing Media:

Water fog, foam, CO2, dry chemical

Fire Fighting:

Toxic gases such as CO2 may be released during fire. Use positive pressure, self-contained breathing apparatus and full protective gear.

Unusual Hazards: None known

#### **ACCIDENTAL RELEASE MEASURES**

Large Spill:

In a clean area, dike and recover for reuse. Dispose of contaminated material.

Small Spill:

Mix with absorbent material and dispose.

#### **HANDLING AND STORAGE**

Use adequate ventilation. Wash thoroughly after handling.

#### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Eyes:

Use safety glasses or better. An eye wash is recommended.

Skin:

As good industrial hygiene practice, impervious (for example, nitrile) gloves are recommended.

Inhalation:

For normal operations, no respiratory protection is required. An air purifying respirator designed for organic vapors should provide adequate protection when handling the heated product.

Engineering Controls:

For the product at ambient temperatures, use adequate ventilation. For the heated product, use exhaust ventilation to remove vapor.

#### **PHYSICAL AND CHEMICAL PROPERTIES**

Appearance and odor: Colorless liquid with a bland odor

Vapor Pressure: <0.01 mm Hg (20oC) Boiling Point: 186-194oC (4mm)

Freezing Point: -11oC Solubility in Water: <0.1% (25oC)

Specific Gravity: 0.94 (20oC)

#### **STABILITY AND CHEMICAL PROPERTIES**

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions to Avoid: This material is not reactive with water

Materials to Avoid: None known

Hazardous Decomposition

Products: Thermal decomposition products can include toxic oxides of carbon

#### **TOXICOLOGICAL INFORMATION**

The total product is not on the International Agency for Research on Cancer (IARC) or National Toxicology Program

(NTP) or OSHA lists of carcinogens or potential carcinogens.

**Toxicity Data:**

The following data on test animals indicate that chemically similar products have low acute toxicity potential and are not skin or eye irritants by OSHA criteria:

Route/Species Test Dosage Units Irritation Data

Oral-rat LD50 >16 g/kg Skin-rabbit Mild irritant

Eye-rabbit Mild irritant

**Other:**

In a 2 year study, dietary levels of 0.25, 1.25 and 6.25% were fed to rats. The data showed no weight, hematologic or bone marrow changes, but some isolated inflammatory changes in the lungs, some nephrosis and fatty livers at the highest dose. A fertility study has demonstrated no effect on offspring.

**ECOLOGICAL INFORMATION**

Not available

**DISPOSAL CONSIDERATIONS**

Waste Disposal Methods:

Waste disposal should be in accordance with existing Federal, State and Local environment regulations.

Resource Conservation and Recovery Act (RCRA):

This product is not included in the lists of hazardous substances (40 CFR 261.33), nor does it exhibit the characteristics of hazardous waste (40 CFR 261.20-24).

**TRANSPORTATION INFORMATION**

DOT shipping name: Not Regulated

DOT Hazard: N/A

UN Number: N/A

**REGULATORY INFORMATION**

Toxic Substances Control Act (TSCA):

This product is in the TSCA Inventory under Cas Number 109-43-3

SARA, Title III, Section 313 (40 CFR 372):

This product contains the following toxic chemicals at a level which is reportable under SARA Toxic Chemical

Release Reporting Regulations: None

New Jersey Worker and Community Right to Know Act:

This product contains the following top five ingredients:

Decanedioic acid, dibutyl ester, Cas# 109-43-3, 100% (weight)

Pennsylvania Worker and Community Right to Know Act:

This product contains the following chemicals on the Hazardous Substance List at a level at which requires notification under the Act: None

WHMIS (Canada) Status:

This is not a controlled product under WHMIS.

Canadian Environmental Protection Act (CEPA) Status:

This product is listed on the DSL.

**REGULATORY INFORMATION-CONTINUED**

European Inventory of Existing Commercial Chemical Substances (EINECS):

This product is listed on EINECS: Number 203-672-5

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal or greater than the reportable quantities (RQs) in 40 CFR 302.4. Components present in this product at a level which could require reporting under the statute are: **NONE**

**OTHER INFORMATION**

HMIS HAZARD RATING

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FIRE: Materials that must be preheated before ignition can occur.

Fire HEALTH: Materials, which on exposure under fire conditions would offer 1 no hazard beyond that of ordinary combustible material.

Health 1 0 Reactivity REACTIVITY: Materials, which in themselves are normally stable, even B under fire exposure conditions, and which are not reactive with water.

The information contained herein is based on data considered to be accurate based on the material as packaged. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It is the user's obligation to determine the conditions of safe use of the product. While this MSDS is based on technical data judged to be reliable, PHARMCO-AAPER assumes not responsibility for the completeness or accuracy of the information contained herein.