



Dibutyl Sebacate

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 12/1/1999 Revision date: 12/20/2022 Supersedes: 12/6/2022 Version: 6.0

SECTION 1: Identification

1.1. Identification

Product form	: Substance
Substance name	: Dibutyl Sebacate
Formula	: C18H34O4
Synonyms	: Dibutyl Sebacate NF
Other means of identification	: Dibutyl decanedioate

1.2. Recommended use and restrictions on use

Use of the substance/mixture	: Formulation into mixture Intermediate Plasticizer Pharmaceutical excipient Polymers Manufacture of textiles Metal surface treatment products Washing and cleaning products Leather treatment products Water treatment chemicals
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1.3. Supplier

Aurorium
201 North Illinois Street, Suite 1800
Indianapolis, Indiana 46204, USA
T: +1-317-247-8141
SDS@aurorium.com

1.4. Emergency telephone number

Emergency number	: Aurorium: +1-336-292-1781 CHEMTREC (USA): +1-800-424-9300 CHEMTREC (International): +1-703-527-3887
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SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : May cause slight irritation to the skin. May cause slight irritation to eyes.

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Substance type : Mono-constituent
Name : Dibutyl Sebacate

Name	Product identifier	%	GHS US classification
Dibutyl Sebacate	CAS-No.: 109-43-3	≥ 98	Not classified

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact : Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion : Rinse mouth out with water. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : May cause slight temporary irritation.
Symptoms/effects after inhalation : None under normal use.
Symptoms/effects after skin contact : None under normal use. May cause slight temporary irritation.
Symptoms/effects after eye contact : None under normal use. May cause slight irritation.
Symptoms/effects after ingestion : None under normal use.
Chronic symptoms : No chronic health hazards are likely for this material.

4.3. Immediate medical attention and special treatment, if necessary

No particular/specific measures required. Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Foam. Carbon dioxide (CO₂). Dry chemical.
Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

5.2. Specific hazards arising from the chemical

Fire hazard : Not classified. Could burn but does not ignite readily.
Explosion hazard : Product is not explosive.
Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance.
Protection during firefighting : Wear recommended personal protective equipment. Complete protective clothing. Self-contained breathing apparatus.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ventilate spillage area. Mark out the contaminated area with signs and prevent access to unauthorized personnel.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. Avoid breathing vapors, spray, mist. Do not touch or walk on the spilled product.

6.1.2. For emergency responders

Emergency procedures : Do not attempt to take action without suitable protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Ventilate spillage area. Use personal protective equipment as required. Shovel into suitable and closed container for disposal.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For waste disposal after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure adequate ventilation. Wear personal protective equipment. Avoid any direct contact with the product. Handle in accordance with good industrial hygiene and safety procedures.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry place. Store in a closed container. Store in a well-ventilated place.

Incompatible products : Strong acids. Strong bases. Strong oxidizers.

Incompatible materials : None known.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available

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No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide local exhaust or general room ventilation.

Environmental exposure controls : Avoid release to the environment.

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8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear suitable gloves

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing. Chemical resistant safety shoes

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Thermal hazard protection:

Not applicable.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Oily. Colorless liquid.
Color	: Colorless
Odor	: Slight
Odor threshold	: No data available
pH	: Not applicable
Melting point	: No data available
Freezing point	: -10 °C
Boiling point	: 345 °C
Flash point	: 178 °C (Open cup)
Relative evaporation rate (butyl acetate=1)	: < 1
Flammability (solid, gas)	: Not classified. Could burn but does not ignite readily.
Vapor pressure	: < 0.001 Pa (25°C)
Relative vapor density at 20°C	: 10.8
Relative density	: 0.934 – 0.94
Molecular mass	: 314.47 g/mol
Solubility	: insoluble in water. Water: < 0.05 mg/l (20 °C, pH 6.4)
Partition coefficient n-octanol/water (Log Pow)	: 6.3 (estimated value)
Auto-ignition temperature	: 365 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 9 mPa.s (20°C)
Explosion limits	: Not applicable
Explosive properties	: Product is not explosive.
Oxidizing properties	: No.

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

10.4. Conditions to avoid

Overheating. Open flame.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Based on available data, the classification criteria are not met
Acute toxicity (dermal) : Based on available data, the classification criteria are not met
Acute toxicity (inhalation) : Based on available data, the classification criteria are not met

Dibutyl Sebacate (109-43-3)	
LD50 oral rat	> 4700 mg/kg (OECD401 method)
LD50 dermal rabbit	> 7940 mg/kg Read-across
LC50 Inhalation - Rat	> 3.2 mg/l/4h Read-across

Skin corrosion/irritation : Slightly irritant but not relevant for classification
pH: Not applicable

Serious eye damage/irritation : Slightly irritant but not relevant for classification
pH: Not applicable

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified. Based on available data, the classification criteria are not met

Carcinogenicity : Not listed (IARC, NTP, US OSHA). Not classified

Reproductive toxicity : Not classified. Based on available data, the classification criteria are not met

Dibutyl Sebacate (109-43-3)	
LOAEL (animal/male, F1)	2102 mg/kg body weight (OECD 415 method)
LOAEL (animal/female, F1)	2399 mg/kg body weight (OECD 415 method)
NOAEL (animal/male, F1)	178 mg/kg body weight (OECD 415 method)
NOAEL (animal/female, F1)	203 mg/kg body weight (OECD 415 method)

STOT-single exposure : Not classified. Based on available data, the classification criteria are not met
STOT-repeated exposure : Not classified. Based on available data, the classification criteria are not met

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NOAEL (subchronic,oral,animal/male,90 days)	200 mg/kg body weight (OECD 408 method)
NOAEL (subchronic,oral,animal/female,90 days)	387 mg/kg body weight (OECD 408 method)

Aspiration hazard	:
Viscosity, kinematic	: No data available
Symptoms/effects	: May cause slight temporary irritation.
Symptoms/effects after inhalation	: None under normal use.
Symptoms/effects after skin contact	: None under normal use. May cause slight temporary irritation.
Symptoms/effects after eye contact	: None under normal use. May cause slight irritation.
Symptoms/effects after ingestion	: None under normal use.
Chronic symptoms	: No chronic health hazards are likely for this material.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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LC50 - Fish [1]	No toxic effects occur within the range of solubility
EC50 - Crustacea [1]	No toxic effects occur within the range of solubility
ErC50 algae	No toxic effects occur within the range of solubility

Dibutyl Sebacate (109-43-3)

LC50 - Fish [1]	> 10000 mg/l Brachydanio rerio (zebra-fish)
EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	> 1000 mg/l Desmodesmus subspicatus

12.2. Persistence and degradability

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Persistence and degradability	Readily biodegradable.
Biodegradation	> 84.6 % 28 days

12.3. Bioaccumulative potential

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BCF - Fish [1]	281 (calculated value)
Partition coefficient n-octanol/water (Log Pow)	6.3 (estimated value)
Bioaccumulative potential	Bioaccumulation is not expected to occur.

12.4. Mobility in soil

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Mobility in soil	Product adsorbs onto the soil
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	> 3 (estimated value)

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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.
Sewage disposal recommendations : Do not dispose of waste into sewer.
Product/Packaging disposal recommendations : Dispose of contents or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
14.1. UN number		
Not regulated for transport		
14.2. Proper Shipping Name		
Not applicable	Not applicable	Not applicable
Transport document description		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Not applicable	Not applicable	Not applicable
No supplementary information available		

14.6. Special precautions for user

DOT
No data available

IMDG
No data available

IATA
No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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SECTION 15: Regulatory information

15.1. US Federal regulations

Dibutyl Sebacate	
SARA Section 311/312 Hazard Classes	Section 2 GHS classification

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Dibutyl Sebacate	109-43-3	Present	Active	

This product or mixture is NOT known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Dibutyl Sebacate
Listed on the Canadian DSL (Domestic Substances List)

Dibutyl Sebacate (109-43-3)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Dibutyl Sebacate
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Dibutyl Sebacate (109-43-3)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Dibutyl Sebacate
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemical Inventory)

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Dibutyl Sebacate (109-43-3)

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Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemical Inventory)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

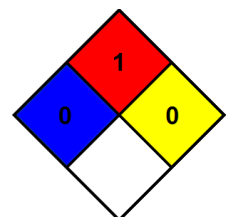
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Revision date : 12/20/2022
Data sources : REACH data.

Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IARC	International Agency for Research on Cancer
LC50	Median lethal concentration
LD50	Median lethal dose
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

NFPA health hazard : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



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Hazard Rating

- Health : 1 Slight Hazard - Irritation or minor reversible injury possible
- Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
- Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Indication of changes:
All chapters have been modified since the previous version (new software).

Safety Data Sheet (SDS), USA

Important Note: Please note that the information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. The information contained herein may change without prior notice. THIS SAFETY DATA SHEET SUPERSEDES ALL PREVIOUS EDITIONS.