

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	: Substance
Substance name	: Dibutyl Sebacate
EC-No.	: 203-672-5
CAS-No.	: 109-43-3
REACH registration No	: 01-2119970603-36-0008
Formula	: C18H34O4
Synonyms	: Dibutyl Sebacate NF
Other means of identification	: Dibutyl decanedioate

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

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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1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

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

Only Representative

Vertellus Specialties UK Ltd
Seal Sands Road
Seal Sands
TS2 1UB Middlesbrough - UK
REACH@Vertellus.com

1.4. Emergency telephone number

Emergency number	: Vertellus: +1-336-292-1781 CHEMTREC (USA): +1-800-424-9300 CHEMTREC (International): +1-703-527-3887 US National Poison Help: +1-800-222-1222
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

2.3. Other hazards

Other hazards not contributing to the classification : May cause slight irritation to the skin. May cause slight irritation to eyes.
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Dibutyl Sebacate	(CAS-No.) 109-43-3 (EC-No.) 203-672-5 (REACH-no) 01-2119970603-36-0008	≥ 98	Not classified

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. Do NOT induce vomiting. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : May cause slight temporary irritation.
Chronic symptoms : No chronic health hazards are likely for this material.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. 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. Special hazards arising from the substance or mixture

Fire hazard : Not flammable.
Explosion hazard : Product is not explosive.
Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

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.

6.1.1. For non-emergency personnel

Emergency procedures : Do not get in eyes, on skin, or on clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Evacuate unnecessary personnel.

6.1.2. For emergency responders

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

6.2. Environmental precautions

Do not allow product to spread into the environment. Prevent entry to sewers and public waters.

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.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Avoid any direct contact with the product.
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.

7.3. Specific end use(s)

Pharmaceuticals. Certain plastics, rubbers and coatings. Fabrics, textiles and apparel. Washing and cleaning products. Lubricants, greases, release products. Water treatment chemicals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection:

Chemical resistant gloves (according to European standard EN 374 or equivalent). Neoprene protective gloves. Nitrile rubber gloves. Protective gloves made of PVC

Eye protection:

Chemical goggles or safety glasses

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Skin and body protection:

Long sleeved protective clothing. Chemical resistant safety shoes

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Oily. Colourless liquid.
Molecular mass	: 314.47 g/mol
Colour	: Colourless.
Odour	: Slight.
Odour threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: < 1
Melting point	: No data available
Freezing point	: -10 °C
Boiling point	: 345 °C
Flash point	: 178 °C (Open cup)
Auto-ignition temperature	: 365 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapour pressure	: < 0.001 Pa (25°C)
Relative vapour density at 20 °C	: 10.8
Relative density	: 0.934 – 0.94
Solubility	: insoluble in water. Water: < 0.05 mg/l (20 °C)
Partition coefficient n-octanol/water (Log Pow)	: 6.3 (estimated value)
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 9 mPa·s (20°C)
Explosive properties	: Product is not explosive.
Oxidising properties	: No.
Explosive limits	: Not applicable

9.2. Other information

No additional information available

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.

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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	> 4750 mg/kg (OECD 401 method)
LD50 dermal rabbit	> 2000 mg/kg REACH data - Chemical category
LC50 inhalation rat (mg/l)	> 5.7 mg/l/4h REACH data - Chemical category

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 sensitisation : Based on available data, the classification criteria are not met (REACH data - Chemical category)
Germ cell mutagenicity : Based on available data, the classification criteria are not met (REACH data - Chemical category)
Carcinogenicity : Based on available data, the classification criteria are not met

Dibutyl Sebacate (109-43-3)

IARC group	Not listed
Reproductive toxicity	: Based on available data, the classification criteria are not met (REACH data - Chemical category)
STOT-single exposure	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Based on available data, the classification criteria are not met
Aspiration hazard	: Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Based on available data, the classification criteria are not met
Hazardous to the aquatic environment, long-term (chronic) : Based on available data, the classification criteria are not met

Dibutyl Sebacate (109-43-3)

LC50 fish 1	No toxic effects occur within the range of solubility
EC50 Daphnia 1	No toxic effects occur within the range of solubility
ErC50 (algae)	No toxic effects occur within the range of solubility

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12.2. Persistence and degradability

Dibutyl Sebacate (109-43-3)

Persistence and degradability	Readily biodegradable.
Biodegradation	> 80 % (28 days) REACH data - Chemical category.

12.3. Bioaccumulative potential

Dibutyl Sebacate (109-43-3)

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

Dibutyl Sebacate (109-43-3)

Mobility in soil	Product adsorbs onto the soil
Partition coefficient n-octanol/water (Log Koc)	> 3 (estimated value)

12.5. Results of PBT and vPvB assessment

Dibutyl Sebacate (109-43-3)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment 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/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 ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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14.5. Environmental hazards

	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

Overland transport

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Dibutyl Sebacate is not on the REACH Candidate List

Dibutyl Sebacate is not on the REACH Annex XIV List

Dibutyl Sebacate is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Dibutyl Sebacate is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 2198)

15.2. Chemical safety assessment

A chemical safety assessment has been carried out by the registrant

SECTION 16: Other information

Indication of changes:

All chapters have been modified since the previous version (new software).

Abbreviations and acronyms:

CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
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CAS	Chemical Abstracts Service number
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
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

Data sources : REACH data.

SDS EU (REACH Annex II)

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