

SAFETY DATA SHEET

according to the Hazardous Products Regulations



DIOCTYL PHTHALATE

Version	Revision Date:	SDS Number:	Date of last issue: 11/05/2022
1.4	03/16/2026	100000004849	Date of first issue: 11/09/2016

SECTION 1. IDENTIFICATION

Product Identifier : DIOCTYL PHTHALATE
Product code : 000000000000020177
Synonyms : bis(2-ethylhexyl)1,2-benzenedicarboxylic acid
Other means of identification : No data available

Manufacturer or supplier's details

Company : Univar Solutions Canada Ltd.
Address : 64 Arrow Road
North York, ON, M9M 2L9
Canada

Emergency telephone number:

Local Emergency Contact : During Office hours Monday-Friday, 8.00 am - 4.30 pm (Pacific Standard Time) : 1-866-686-4827

Additional Information: : Responsible Party: Product Compliance Department
E-mail: SDSNA@univarsolutions.com
SDS Requests: 1-855-429-2661
Website: www.univarsolutions.com

Recommended use of the chemical and restrictions on use

Recommended use : Manufacture of plasticizers.
Plasticizer in the manufacture of PVC resins.

SECTION 2. HAZARD IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Carcinogenicity : Category 2
Reproductive toxicity : Category 1B

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H351 Suspected of causing cancer.
H360 May damage fertility or the unborn child.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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----------------	------------------------------	-----------------------------	---

Response:

P308 + P313 IF exposed or concerned: Get medical advice/attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Substance
Chemical name	:	bis(2-ethylhexyl)1,2-benzenedicarboxylic acid
CAS-No.	:	117-81-7
Synonyms	:	No data available

Hazardous components

CAS-No.	Synonyms	Chemical name	Weight percent
117-81-7	bis(2-ethylhexyl) phthalate	Dioctyl phthalate	80 - 100

Any concentration shown as a range is due to batch variation.

SECTION 4. FIRST-AID MEASURES

General advice	:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice.

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Version 1.4	Revision Date: 03/16/2026	SDS Number: 100000004849	Date of last issue: 11/05/2022 Date of first issue: 11/09/2016
----------------	------------------------------	-----------------------------	---

Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed : None known.

Immediate Medical Attention and Special Treatment : Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray
Dry chemical
Carbon dioxide (CO₂)
Foam

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon oxides

Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Special protective equipment and precautions for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

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SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Precautions for safe handling : Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : 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.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
117-81-7	Dioctyl phthalate	TWA	5 mg/m ³	CA AB OEL
		TWA	5 mg/m ³	CA BC OEL
		TWA	3 mg/m ³	CA ON OEL
		STEL	5 mg/m ³	CA ON OEL
		TWAEV	5 mg/m ³	CA QC OEL
		STEV	10 mg/m ³	CA QC OEL

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.
In the case of vapour formation use a respirator with an approved filter.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

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Version	Revision Date:	SDS Number:	Date of last issue: 11/05/2022
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When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: liquid
Colour	: colourless
Odour	: slight, mild
Odour Threshold	: No data available
pH	: No data available
Freezing point (Freezing Point)	: -50 °C (-58 °F)
Boiling point (Boiling point/boiling range)	: 384 °C (723 °F)
Flash point	: 201 °C (394 °F) Method: closed cup
Evaporation rate	: not determined
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: > 1.2 mmHg @ 20 °C (68 °F)
Relative vapour density	: 13.5 @ 20 - 25 °C (68 - 77 °F) (Air = 1.0)
Relative density	: 0.985 @ 20 °C (68 °F) Reference substance: (water = 1)
Density	: 0.9622 g/cm ³ @ 20 - 25 °C (68 - 77 °F)
Solubility(ies)	
Water solubility	: 0.1 - 0.285 g/l soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: Pow: 75,858 log Pow: 4.88 - 7.6
Auto-ignition temperature	: 370 - 382 °C
Thermal decomposition	: > 393 °C
Viscosity	
Viscosity, dynamic	: 56.6 mPa.s @ 25 °C (77 °F)
Viscosity, kinematic	: 57.46 mm ² /s @ 25 °C (77 °F)
Particle characteristics	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable under recommended storage conditions.
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Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No hazards to be specially mentioned.
Conditions to avoid	:	Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	carbon dioxide and carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:

117-81-7:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Carcinogenicity

Product:

Carcinogenicity - Assessment : Suspected human carcinogens

Components:

117-81-7:

Carcinogenicity - Assessment : Suspected human carcinogens

Reproductive toxicity

Components:

117-81-7:

Effects on fertility : Test Type: multigeneration study
Species: Rat, male and female
Application Route: Oral
Dose: 1.5 - 10,000 ppm
General Toxicity - Parent: 300 ppm
General Toxicity F1: 300 ppm
Fertility: 1,000 ppm
Early Embryonic Development: 100 ppm
Symptoms: Reduced fertility, Testicular effects
Result: Embryotoxic effects and adverse effects on the off-spring were detected.
GLP: yes

Effects on foetal development : Species: Rat
Application Route: Oral
Dose: 0, 357, 666, 586, 1055 mg/kg
Duration of Single Treatment: 21 d
General Toxicity Maternal: 357 mg/kg body weight

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Version 1.4	Revision Date: 03/16/2026	SDS Number: 100000004849	Date of last issue: 11/05/2022 Date of first issue: 11/09/2016
----------------	------------------------------	-----------------------------	---

Teratogenicity: $\geq 1,055$ mg/kg body weight
Developmental Toxicity: 357 mg/kg body weight
Symptoms: Maternal toxicity, Reduced number of viable fetuses, Preimplantation loss
Result: Embryotoxic effects and adverse effects on the offspring were detected.

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, based on animal experiments.
Clear evidence of adverse effects on development, based on animal experiments.

Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-637-7922

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

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Version 1.4	Revision Date: 03/16/2026	SDS Number: 100000004849	Date of last issue: 11/05/2022 Date of first issue: 11/09/2016
----------------	------------------------------	-----------------------------	---

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

National Regulations

TDG_ROAD

Not regulated as a dangerous good

Special precautions for user

Not applicable

Special Notes: : This material is shipped as a Class 9, Packing Group III (Marine Pollutant) when each package meets or exceeds 450 Liters (119 gallons) and is shipped via marine, if they are in transport solely on land by road vehicle or railway vehicle it may be shipped as not regulated. (TDG 1.45.1)

SECTION 15. REGULATORY INFORMATION

NPRI Components : 117-81-7

This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR.

The components of this product are reported in the following inventories:

TSCA	: All substances listed as active on the TSCA inventory
AIIC	: On the inventory, or in compliance with the inventory
CA. DSL	: All components of this product are on the Canadian DSL
ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory

Canadian lists

No substances are subject to a Significant New Activity Notification.

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No substances are subject to CEPA Section 84 Ministerial Conditions.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)
CA ON OEL / STEL	:	Short-Term Exposure Limit (STEL)
CA QC OEL / TWA EV	:	Time-weighted average exposure value
CA QC OEL / STEV	:	Short-term exposure value

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations

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on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions EHS Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

CA / EN