

## 1. Product and Company Identification

www.rxmarine.com

Product Name : DI OCTYL PHTHALATE

Part Number : RXSOL-18-1149-025

### Company Details:

RX MARINE INTERNATIONAL

105, A wing , BSEL , TECH PARK.

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Website [www.rxmarine.com](http://www.rxmarine.com)

## 2. Composition / Information on ingredients

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Name of Substance	Cas Number	EINECS No	Wt. %	Symbol
Bis(2-ethylhexyl) phthalate	117-81-7	204-211-0	390-56%	C24H38O4
Phthalic acid				
bis(2-ethylhexyl ester) DOP				

## 3. Hazards Identification

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Signal Word

Hazard Statements H360FD

Precautionary statements -

Danger

May damage fertility. May damage the unborn child.

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. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal

plant.

Additional information

This substance/mixture contains no components considered to be either persistent, bioaccumulate and toxic (PBT), or very persistent and very bioaccumulate (vPvB) at levels of 0.1% or higher. Endocrine disrupting chemical(s)

## 4. First Aid Measures

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General advice

Show this material safety data sheet to the doctor in attendance.

Eye Contact

Rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

Skin Contact

Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

Inhalation

fresh air. Call in physician.

Ingestion

Immediately make victim drink water (two glasses at most). Consult a

## 5. Fire-fighting Measures

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Suitable extinguishing media

Foam Carbon dioxide (CO<sub>2</sub>) Dry powder.

Extinguishing media which must not be used for safety reasons

For this substance/mixture no limitations of extinguishing agents are given.

Special exposure hazards arising from the substance itself, combustion products, resulting gases

Carbon oxides Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

Special protective equipment for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by

keeping a safe distance or by wearing suitable protective clothing.

Additional information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

## 6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Environmental Precaution

Do not let product enter drains.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up carefully with liquid-absorbent material (e.g. Chemisorb®). Dispose of properly. Clean up affected area.

## 7. Handling and Storage

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Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Storage

Storage conditions: Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class: Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

## 8. Exposure controls and personal protection

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Engineering Control

Do not let product enter drains.

Personal Protection

Eye/ Face protection : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.

Hand protection : Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing Respiratory protection: Required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used

respiratory protection system. Recommended Filter type: Filter type ABEK The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### Exposure Limits:

Ingredients	CAS No	Form of exposure	Value	UK EH40 OES (table 2)
Sulphur Dioxide	--	--	--	--
Ethane-1-2-Diol	--	--	--	--
Oropan-2-ol	--	--	--	--

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.



Gloves Suit

## 9. Physical and chemical properties

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Form	oily
Colour	colorless
Odour	odorless
Boiling point and boiling range	384 °C - lit.
Flash Point	207 °C - closed cup
Freezing Point	-50 °C - lit.
pH	20 °C
Flammability (solid, gas)	No data available
Upper explosion limit	0,3 %(V)
Lower explosion limit	0,3 %(V)
Explosive properties	No data available
Vapor pressure	1,6 hPa at 93,0 °C
Relative vapor density	No data available
Relative density	No data available
density	0,985 g/cm <sup>3</sup> at 25 °C - lit.
Water solubility	ca.0,086 g/l at 25 °C - OECD Test Guideline 105- insoluble.
Solubility in other solvents	No data available
Partition coefficient: octanol	No data available
Autoignition temperature	390,0 °C

Thermal decomposition	No data available
Viscosity, kinematic	ca.78,17 mm <sup>2</sup> /s at 20 °C - OECD Test Guideline 114 Viscosity, dynamic: 81 mPa.s at 20 °C
Explosive properties	No data available
Oxidizing properties	None
Molecular weight	No data available
VOC	No data available

## 10. Stability and reactivity

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Reactivity	Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.
Stability	The product is chemically stable under standard ambient conditions (room temperature).
Possibility of hazardous reactions	No data available
Incompatible materials	.Strong oxidizing agents.
Hazardous Decomposition	In the event of fire.
Condition to Avoid	Strong heating.

## 11. Toxicological information

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Eyes	Rabbit Result: No eye irritation - 72 h (OECD Test Guideline 405)
Skin	Rabbit Result: slight irritation - 4 h (OECD Test Guideline 404)
Ingestion	Causes digestive tract burns
Inhalation	Inhalation of vapours leads to irritation of respiratory tract and mucous membranes, headache, nausea, dizziness, vomiting. Sensitisation possible through inhalation
Chronic Exposure	Health injuries are not known or expected under normal use.
Acute oral toxicity	LD <sub>0</sub> Oral - Rat - male and female - > 20.000 mg/kg  (OECD Test Guideline 401)  LC <sub>0</sub> Inhalation - Rat - male and female - 4 h - > 10,62 mg/l - vapor  (OECD Test Guideline 403)  Remarks: (highest concentration to be prepared)  LD <sub>50</sub> Dermal - Rabbit - 19.800 mg/kg  Remarks: (ECHA) No data available No data available This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.  This substance/mixture contains components considered to have endocrinedisrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.  The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for human health. Repeated dose toxicity - Rat - male and female - Oral - 104 Weeks - NOAEL (No observed adverse effect level) - 28,9 mg/kg  RTECS: TI0350000
Acute inhalation toxicity	
Acute dermal toxicity	
classification	
Additional information	

Effects due to ingestion may include:, Gastrointestinal disturbance

To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

Test Type: In vitro mammalian cell gene mutation test Test system: Mouse lymphoma test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 479 Result: negative Test Type: Micronucleus test Test system: Chinese hamster lung cells Metabolic activation: with and without metabolic activation Result: negative Remarks: (ECHA) Test Type: Chromosome aberration test Species: Rat Cell type: Bone marrow Application Route: Oral Method: OECD Test Guideline 475 Result: negative Test Type: unscheduled DNA synthesis assay Species: Rat Cell type: Liver cells Application Route: Oral Method: OECD Test Guideline 486 Result: negative.

## 12. Ecological information

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Environmental Effects

No data available

Toxicity to fish

flow-through test LC50 - Pimephales promelas (fathead minnow) - > 0,67 mg/l - 96 h (OECD Test Guideline 203) Remarks: (above the solubility limit in the test medium).

Toxicity to daphnia and others

mmobilization EC50 - Daphnia magna (Water flea) - > 0,16 mg/l - 48 h

Remarks: (ECOTOX Database)

Toxicity to algae

IEC50 - Pseudokirchneriella subcapitata - > 0,003 mg/l - 72 h.

Toxicity to bacteria

static test NOEC - activated sludge - 1.000 mg/l - 3 h

Biodegradability

aerobic - Exposure time 29 d

Result: 82 % - Readily biodegradable.

Persistence and degradability

No data available

Bioaccumulative potential

Oncorhynchus mykiss (rainbow trout) - 100 d - 0,014

mg/l(Bis(2-ethylhexyl) phthalate) Bioconcentration factor (BCF): 113

Remarks: Does not bioaccumulate.

Endocrine disrupting properties

This substance/mixture contains components considered to have endocrinedisrupting properties for environment , according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

The substance is considered to have endocrine

disrupting properties according to REACH Article 57(f) for the environment.

Mobility in soil

No data available

## 13. Disposal considerations

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Remarks

contact us there if you have further questions.

Waste Disposal

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and

containers.

## 14. Transport information

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Hazard Pictograms:

UN Number

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Proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport hazard class(es)

ADR/RID

--

Subsidiary risk IMDG

--

Subsidiary risk IATA

--

Packing group

Packing group

--

Environmental hazards

Environmental hazards

No

Marine pollutant

No

ADR/RID

Hazard ID

--

Tunnel Category

--

IMDG

EmS Code

--

IATA

Packing Instruction (Cargo)

--

Maximum quantity

--

Packing Instruction (Passenger)

--

Maximum quantity

--

## 15. Regulatory information

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Regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or

stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.

Chemical safety assessment

For this product a chemical safety assessment was not carried out.

Further information

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Bis(2-ethylhexyl) phthalate

This product contains a substance listed on Annex XIV of the REACH Regulation (EC) Nr. 1907/2006.

Listed substance / Sunset Date : Bis(2-ethylhexyl) phthalate / 21.02.2015  
After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate. REACH - Restrictions on the manufacture, placing on the

## 16. Other information

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### Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if RX Marine International has been advised of the possibility of such damages.

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