Material Safety Data Sheet

DI OCTYL PHTHALATE (RXSOL-18-1149-210)

1. Product and Company Identifaction

Product Name	: DI OCTYL PHTHALATE
Part Number	: RXSOL-18-1149-025

Company Details:
RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Stock Point : Mumbai, Kandla, Kolkata, Chennai, Vizag, Fujairah, Muscat

Phone	+91 22 20871200-1400
Fax	+91 22 20871500:::AOH :0091 9821214367
Email	123@rxmarine.com
Website	www.rxmarine.com

2. Composition / informationon ingredients

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

3. Hazards Identification

Signal Word	Danger
Hazard Statements H360FD	May damage fertility. May damage the unborn child.
Precautionary statements -	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

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 physician.

5. Fire-fighting Measures

Suitable extinguishing media	Foam Carbon dioxide (CO2) Dry powder.

Extinguishing media which must notbe used for safety reasons	For this substance/mixture no limitations of extinguishing agents are given.
Special exposure hazards arising from thesubstance itself, combustion products, resulting gases	Carbon oxidesCombustible. 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

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.
Enviromental 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. Chemizorb®). Dispose of properly. Clean up affected area.

7. Handling and Storage

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

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 entrepeneur 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

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/cm3 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 mm2/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

Recativity	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

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	LD0 Oral - Rat - male and female - > 20.000 mg/kg (OECD Test Guideline 401) LC0 Inhalation - Rat - male and female - 4 h - > 10,62 mg/l - vapor (OECD Test Guideline 403) Remarks: (highest concentration to be prepared) LD50 Dermal - Rabbit - 19.800 mg/kg Remarks: (ECHA)
Acute inhalation toxicity	No data available
Acute dermal toxicity	No data available
classification	This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.
Additional information	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 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

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

Remarks	contact us there if you have further questions.

Waste Disposal	See www.retrologistik.com for processes regarding the return of chemicals and containers.

14. Transport information

Hazard Pictograms:

UN Number	--
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

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 market and use of certain dangerous substances, mixtures and articles (Annex XVII).

16. Other information

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. DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.