

1. Product and Company Identification

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Product Name DI BUTYL MALEATE
Part Number RXSOL-19-6604-200

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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2. Composition / Information on ingredients

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Chemical Name	Cas No	EC No	Whight	Formula
Maleic anhydride	105-76-0	203-328-4	= 3.730 mg/kg Remarks: (ECHA) LC50 Inhalation - Rat - male and female - 4 h - > 5 mg/l - dust/mist (OECD Test Guideline 403) LD50 Dermal - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 402)	
Skin corrosion/irritation	Skin - Rabbit Result: slight irritation - 72 h (OECD Test Guideline 404)			
Serious eye damage/irritation	Eyes - Rabbit Result: slight irritation - 72 h (OECD Test Guideline 405)			
Respiratory or skin sensitization	Patch test: - Human Result: positive Remarks: (IUCLID) Sensitisation test (Magnusson and Kligman): - Guinea pig Result: positive (OECD Test Guideline 406)			
Carcinogenicity	No data available			
Germ cell mutagenicity	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: Micronucleus test Species:			

	Mouse Cell type: Bone marrow Application Route: Oral Method: OECD Test Guideline 474 Result: negative
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	Ingestion - May cause damage to organs through prolonged or repeated exposure. - Kidney
Additional Information	Repeated dose toxicity - Rat - male and female - Oral - 90 d - LOAEL (Lowest observed adverse effect level) - 30 mg/kg Remarks: Subchronic toxicity RTECS: ON0875000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

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Persistence and degradability	Biodegradability Result: 95 % - Readily biodegradable. (OECD Test Guideline 301E)
Toxicity to fish	Static test LC50 - Oncorhynchus mykiss (rainbow trout) - 1,2 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Static test EC50 - Daphnia magna (Water flea) - 21 mg/l - 48 h (OECD Test Guideline 202)
Toxicity	Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 1.520 mg/l - 96 h
Toxicity to bacteria	Static test EC50 - activated sludge - 488,6 mg/l - 3 h (OECD Test Guideline 209)
Toxicity to algae	Static test EC50 - Desmodesmus subspicatus (green algae) - 6,2 mg/l - 72 h (OECD Test Guideline 201)
Products Biodegradation	The methods for determining the biological degradability are not applicable to inorganic substances.
Mobility in soil	No data available
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Endocrine disrupting properties	No data available
Other adverse effects	No data available .

13. Disposal considerations

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Product	See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.
Contaminated packaging	Dispose of as unused product.
Waste treatment Method	See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

14. Transport information

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UN number	ADR/RID:3082 IMDG:3082 IATA: 3082
UN proper shipping name	ADR/RID:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (di-n-butyl maleate) IMDG:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (di-n-butyl maleate) IATA:Environmentally hazardous substance, liquid, n.o.s. (di-n-butyl maleate)
Transport hazard class(es)	ADR/RID: 9 IMDG: 9 IATA: 9
Packaging group	ADR/RID:III IMDG: III IATA: III
Environmental hazards	ADR/RID: yes IMDG: yes IATA: yes
Special precautions for user	No data available
Further information	Packages smaller than or equal to 5 kg / L , not dangerous goods of Class 9

15. Regulatory information

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Safety, health and environmental regulations/legislation specific for the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Other 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

16. Other information

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Other Information	<p>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 we 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.</p> <p>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.</p>
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