

## 1. Product and Company Identification

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

Product Name LACTIC ACID AR  
Part Number RXSOL-6604-776

Company Details:

RX MARINE INTERNATIONAL  
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## 2. Composition / Information on ingredients

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Chemical Name	CAS	EC number	Weight	Formula
Lactic acid	50-21-5	200-018-0	7,94 mg/l - aerosol (OECD Test Guideline 403) LD50 Dermal - Rabbit - male and female - > 2.000 mg/kg (US-EPA)	
Skin corrosion/irritation	Skin - Rabbit Result: Skin irritation - 4 h (OECD Test Guideline 404)			
Serious eye damage/eye irritation	Eyes - Chicken eye Result: Irreversible effects on the eye - 10 s (OECD Test Guideline 438) Eyes - Rabbit Result: Severe eye irritation			
Respiratory or skin sensitization	Buehler Test - Guinea pig Result: negative (US-EPA)			
Toxic Effects on Human	May cause damage to the following organs: upper respiratory tract. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant, sensitizer), of ingestion, of inhalation (lung irritant, lung sensitizer).			
Carcinogenicity	Presumed to have carcinogenic potential for humans			
Germ cell mutagenicity	Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative			
Reproductive toxicity	No data available			

Specific target organ toxicity No data available

- single exposure

Special Remarks on other Acute Potential Health  
Toxi Effects on Humans Effects: Skin: Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Eyes: Causes eye irritation. Ingestion: Causes gastrointestinal (digestive) tract irritation with nausea, vomiting, and diarrhea. May be harmful if swallowed. Inhalation: Causes respiratory tract irritation. May cause chemical pneumonitis and pulmonary edema, inflammation, edema of bronchi and larynx. Chronic Potential Health Effects: Repeated or prolonged skin exposure may cause allergic reactions in sensitive individuals. Repeated or prolonged exposure by inhalation may affect respiration and metabolism.

Endocrine properties

disrupting The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Repeated dose toxicity - Rat - male and female - Oral - 13 Weeks Remarks: (ECHA) Repeated dose toxicity - Rat - female - Dermal - 13 Weeks - LOAEL (Lowest observed adverse effect level) - 886 mg/kg Remarks: (ECHA) RTECS: OD2800000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated .

## 12. Ecological information

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Bioaccumulative potential

No data available

Persistence and degradability

No data available Biodegradability aerobic Biochemical oxygen demand -

Toxicity to fish	Exposure time 20 d Result: 67 % - Readily biodegradable. Biochemical Oxygen Demand (BOD) 0,45 mg/l (Tested according to Annex V of Directive 67/548/EEC.)
Toxicity to daphnia and other aquatic invertebrates	Static test LC50 - Poecilia reticulata (guppy) - 0,61 mg/l - 96 h Remarks: (ECHA)
Toxicity to algae	Static test EC50 - Daphnia magna (Water flea) - 130 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to bacteria	Static test ErC50 - Pseudokirchneriella subcapitata (green algae) - ca. 3,5 g/l - 72 h (OECD Test Guideline 201)
Mobility in soil	Static test EC50 - activated sludge - > 88,2 mg/l - 3 h (OECD Test Guideline 209)
Results of PBT and vPvB assessment	No Information available
Endocrine disrupting properties	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.
Other adverse effects	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
	No data available

## 13. Disposal considerations

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Disposal methods	The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.
Contaminated packaging	Dispose of as unused product.
Waste treatment Method	No data available

## 14. Transport information

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UN number	ADR/RID: IMDG: IATA:
UN proper shipping name	ADR/RID:HYDRAZINE, AQUEOUS SOLUTION ,  IMDG: HYDRAZINE, AQUEOUS SOLUTION
Transport hazard class(es)	IATA:HYDRAZINE, AQUEOUS SOLUTION
Packaging group	ADR/RID: IMDG: IATA:
Environmental hazards	ADR/RID: IMDG: IATA:
Further information	ADR/RID: NO IMDG:NO IATA: NO  No data available

## 15. Regulatory information

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Inventory status	Components are on the following inventories: Polymaleic acid: - US TSCA, Canadian DSL, EU EINECS, Australian AICS, Korean, Philippine PICCS and Chinese Xi irritant R 36/38 Irritant to eyes & skin R 41 Risk of serious damage to eyes S24/25 Avoid contact with skin and eyes S26/28 In case of contact eyes & skin, rinse with plenty water and seek medical advice Section 312/313: Not listed. Not listed under California proposition 65.
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.
National legislation	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous

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	substances. : ACUTE TOXIC : ENVIRONMENTAL HAZARDS : Carcinogenic substances
Authorisations and/or restrictions on use	REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Hydrazine REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Hydrazine
Other regulations	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

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