1. Product and Company Identifaction

Product Name	Para Benzoquinone PBQ
Part Number	RXSOL-956-1781-005

Company Details:

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

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

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2. Composition / Information on ingredients

www.rxmarine.com

Synonyms	Formula	Cas Number	Molecular weight	Index-No.	EC-No
Quinone	C6H4O2	106-51-4	108,09 g/mol	606-013-00-3	203-405-2

p-benzoquinone

Component	Classification	Concentration.
CAS-No.106-51-4	Flam. Sol. 1; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; Muta. 2; STOT SE 3;	= 160 °C at 1.013 hPa - OECD Test Guideline 103 - Decomposes below the boiling point
EC-No.203-405-2		
Index-No.606-013-00-3	Aquatic Acute 1; Aquatic Chronic 1; H228, H301, H331, H314, H318, H317, H341, H335, H400, H41	
Flash Point	77 °C - closed cup	
Evaporation Rate	Not Applicable	
Flammability (solid, gas)	The substance or mixture is a flammable solid with the category 1. - Test N.1: Test method for readily combustible solids	
Explosive limits	No Data Available	
Upper/lower flammability or explosive limits	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Vapour pressure	No Data Available	
Vapour Density	No Data Available	
Specific Gravity	1.98 g/cm3 at 20 °C	
Partition coefficient	No data available	
Explosive properties	None	
Solubility	Soluble in water 620 g/l at 20 °C	
Ignition temperature	No information available.	

10. Stability and reactivity

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. The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Stability	The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions	Violent reactions possible with: Strong bases strong reducing agents Risk of ignition or formation of inflammable gases or vapours with: Sulfides combustible substances hydrides Exothermic reaction with: Oxidizing agents alkalines Strong acids
Conditions to avoid	Strong heating.
Incompatible materials	Strong oxidizing agents
Hazardous Polymerization	In the event of fire: see section 5

11. Toxicological information

Acute toxicity	LD50 Oral - Rat - 130 mg/kg Remarks: (RTECS) Acute toxicity estimate Inhalation - 4 h - 0,51 mg/l - dust/mist (Expert judgment) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2) Dermal: No data available
Skin corrosion/irritation	Skin - in vitro test Result: Corrosive after 3 minutes to 1 hour of exposure - 60 min (OECD Test Guideline 431)
Serious eye damage/eye irritation	Eyes - Human Result: Causes serious eye damage. (OECD Test Guideline 492)
Respiratory or skin sensitization	In Chemico Skin Sensitisation: Direct Peptide Reactivity Assay (DPRA) - In vitro study Result: positive (OECD Test Guideline 442C)
Serious eye damage/eye irritation	Causes serious eye damage.
Rout Of Entry	Inhalation. Ingestion.
Toxicity to Animal	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE Acute oral toxicity (LD50): 689 mg/kg [Rat].
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).
Germ cell mutagenicity	Suspected of causing genetic defects. Test Type: Ames test Test system: S. typhimurium Metabolic activation: without metabolic activation Method: OECD Test Guideline 471 Result: positiveTest Type: In vivo micronucleus test Species: Mouse Application Route: Oral Method: Mutagenicity (micronucleus test) Result: positive Remarks: (ECHA)
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	Inhalation - May cause respiratory irritation. - Respiratory system
Special Remarks on other Toxi Effects on Humans:	Acute Potential Health Effects: Skin: Causes skin irritation. May cause skin sensitization, an allergic reation, 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.
Additional Information	Endocrine disrupting properties
Assessment	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.

Endocrine disrupting properties	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. RTECS: DK2625000 burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Damage to the eyes. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidenc

12. Ecological information

Persistence and degradability	Biodegradability aerobic - Exposure time 28 d Result: 56 % - Not rapidly biodegradable (OECD Test Guideline 301A)
Toxicity	No data available Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna Straus (Water flea) - 0,13 mg/l - 48 h (OECD Test Guideline 202) Toxicity to algae static test EC50 - Desmodesmus subspicatus (green algae) - 1,5 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to fish	flow-through test LC50 - Oryzias latipes - > 95,4 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	static test ErC50 - SELENASTRUM - > 998 mg/l - 72 h (OECD Test Guideline 201)
Eco Toxicity	Not Available
COD and BOD 5	Not Available
Products Biodegradation:	The methods for determining the biological degradability are not applicable to inorganic substances.
Mobility in soil	No Information 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	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
Assessment	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.
Other adverse effects	No data available

13. Disposal considerations

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

UN number	ADR/RID: 2587 IMDG: 2587 IATA: 2587
UN proper shipping name	ADR/RID: BENZOQUINONE

	IMDG: BENZOQUINONE IATA: Benzoquinone
Transport hazard class(es)	ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1
Packaging group	ADR/RID: II IMDG: II I ATA: II
Environmental hazards	ADR/RID: yes IMDG Marine pollutant: yes IATA: No
Special precautions for user	No data available

15. Regulatory information

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 substances. : ACUTE TOXIC : ENVIRONMENTAL HAZARDS
DSCL (EEC)	R8- Contact with combustible material may cause fire. R20/22- Harmful by inhalation and if swallowed. R36/37/38- Irritating to eyes, respiratory system and skin. R42/43- May cause sensitization by inhalation and skin contact. S22- Do not breathe dust. S24- Avoid contact with skin. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37- Wear suitable gloves.
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.

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 weassume 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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