

1. Product and Company Identification

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Product Name Buffer Solution pH 11

Part Number RXSOL-60-6025-001

Company Details:....

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2. Composition / Information on ingredients

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Substances Not relevant (mixture)

Mixtures

Description of the mixture This product does not meet the criteria for classification in any hazard class according to GHS

3. Hazards Identification

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Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/ EC.

Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Warning

Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of ? 0,1%.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of ? 0,1%

4. First Aid Measures

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Description of first aid measures

General notes

No special measures are necessary.

Following inhalation

Provide fresh air.

Following skin contact

Rinse skin with water/shower.

Following eye contact

Rinse cautiously with water for several minutes.

Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

Indication of any immediate medical attention and special treatment needed

None

5. Fire-fighting Measures

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Extinguishing media

Suitable extinguishing media

Co-ordinate firefighting measures to the fire surroundings!

Unsuitable extinguishing media

Water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO₂)

Special hazards arising from the substance or mixture

Water jet

Hazardous combustion products

Non-combustible.

Advice for firefighters

In case of fire may be liberated: Nitrogen oxides (NO_x)

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No special measures are necessary.

Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

Methods and materials for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece).

Other information relating to spills and releases

Place in appropriate containers for disposal.

Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

7. Handling and Storage

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Precautions for safe handling

No special measures are necessary.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

Specific designs for storage rooms or vessels

Recommended storage temperature: 15?25 °C

Specific end use(s)

No information available.

8. Exposure controls and personal protection

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Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

This information is not available.

Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection	Use safety goggle with side protection.
Skin protection	
Hand protection	Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.
Type of material	NBR (Nitrile rubber)
Material thickness	>0,11 mm
Breakthrough times of the glove material	>480 minutes (permeation: level 6)
Other protection measures	Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.
Respiratory protection	Usually no personal respirative protection necessary.
Environmental exposure controls	Keep away from drains, surface and ground water.

9. Physical and chemical properties

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Physical state	Liquid
Colour	Colourless
Odor	Odourless
Melting point/freezing point	Not determined
Initial boiling point and boiling range	~100 °C
Flammability	Non-combustible
Upper/lower explosive limits	Not determined
Flash point	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not relevant
pH(Value)	11 (20 °C)
Kinematic viscosity	Not determined
Solubility(ies)	
Water solubility	Miscible in any proportion
Partition coefficient	
Partition coefficient n-octanol/water (log value)	Not relevant (inorganic)
Vapour pressure	23 hPa at 20 °C
Density and/or relative density	
Density	1,003 g /cm ³ at 20 °C
Relative vapour density	Information on this property is not available.
Particle characteristics	Not relevant (liquid)
Other safety parameters	
Oxidising properties	None
Other information	
Information with regard to physical hazard classes	Hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics	
Miscibility	Completely miscible with water

10. Stability and reactivity

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Reactivity	This material is not reactive under normal ambient conditions.
Chemical stability	The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous reactions	No known hazardous reactions.
Conditions to avoid	There are no specific conditions known which have to be avoided.
Incompatible materials	There is no additional information.
Hazardous decomposition products	Hazardous combustion products: see section 5.

11. Toxicological information

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Information on hazard classes as defined in Regulation (EC) No 1272/2008

Classification procedure

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Skin corrosion/irritation

Serious eye damage/eye irritation

Respiratory or skin sensitisation

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

Aspiration hazard

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

If in eyes

If inhaled

If on skin

Other information

Endocrine disrupting properties

Information on other hazards

Test data are not available for the complete mixture.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/ EC.

Shall not be classified as acutely toxic

Shall not be classified as corrosive/irritant to skin.

Shall not be classified as seriously damaging to the eye or eye irritant.

Shall not be classified as a respiratory or skin sensitiser.

Shall not be classified as germ cell mutagenic.

Shall not be classified as carcinogenic.

Shall not be classified as a reproductive toxicant.

Shall not be classified as a specific target organ toxicant (single exposure).

Shall not be classified as a specific target organ toxicant (repeated exposure).

Shall not be classified as presenting an aspiration hazard.

Data are not available

Data are not available

Data are not available

Data are not available

Due to its pH value (see section 9), irritation of the skin and eyes cannot be ruled out

Does not contain an endocrine disruptor (ED) in a concentration of ? 0,1%.

There is no additional information.

12. Ecological information

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Toxicity

Persistence and degradability

Bioaccumulative potential

Mobility in soil

Results of PBT and vPvB assessment

Endocrine disrupting properties

Other adverse effects

Shall not be classified as hazardous to the aquatic environment.

Data are not available.

Data are not available.

Data are not available.

Does not contain a PBT-/vPvB-substance in a concentration of ? 0,1%.

Does not contain an endocrine disruptor (ED) in a concentration of ? 0,1%.

Data are not available.

13. Disposal considerations

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Waste treatment Methods

Sewage disposal-relevant information

Waste treatment of containers/packages

Relevant provisions relating to waste

Remarks

Consult the appropriate local waste disposal expert about waste disposal

Do not empty into drains.

Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the

relevant national or regional provisions. Non-contaminated packages may be recycled.

14. Transport information

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UN number or ID number	Not subject to transport regulations
UN proper shipping name	Not assigned
Transport hazard class(es)	None
Packaging group	Not assigned
Environmental hazards	Non-environmentally hazardous acc. to the dangerous goods regulations
Special precautions for user	There is no additional information.
Maritime transport in bulk according to IMO instruments	The cargo is not intended to be carried in bulk.
Information for each of the UN Model Regulations	
International Maritime Dangerous Goods Code (IMDG) - Additional information	Not subject to IMDG
International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information	Not subject to ICAO-IATA.

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

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 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. 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.
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