



aqua-terra Bioprodukt GmbH
Material Safety Data Sheet 2001/58 EG-5/2.4

Name of product: **RenoSan[®] „RenoSan 555“**

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1.	Identification of substance and details on manufacturer	
1.1.	Information on product or mixture:	
1.1.1.	Trade name:	RenoSan[®] “RenoSan 555”
1.2.	Application field of product or mixture:	To eliminate odour emissions in sewage treatment plants and canalisation systems.
1.3.	Data on company / Manufacturer	
1.3.1.	Manufacturer:	aqua-terra Bioprodukt GmbH
	Street / POB:	Langenselbolder Str. 8
	Postal code / City:	D-63543 Neuberg
	Telephone:	+49 (0)6183 / 91 49 00
	Fax:	+49 (0)6183 / 91 49 049
1.4.	Emergency call:	+49 (0)800-0900 999

2.	Composition / Data on components	
2.1.	Chem. Characterisation:	Sodium alginate / natural etheric oils
2.2.	CAS-No.:	9005-38-3
2.3.	No. of commodity:	39131000
2.4.	Description:	Gelatinizing / paste-liquid
2.5.	UN-No.:	Not applicable.
2.6.	Hazardous components:	None.
2.7.	Additional information:	None.

3.	Hazards identification	
3.1.	Classification of product:	No hazardous product
3.2.	Information pertaining to particular dangers for man and environment:	None.
3.3.	Summary:	An acute danger is excluded when applying to our instructions.
3.4.	Short-time contact:	Injuries / dangers are not to be expected on short-time contact.
3.5.	After eye contact:	Immediately rinse with water for about 15 minutes.



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3.6.	After inhalation:	Not applicable.
3.7.	After swallowing:	No information on negative effects.

4.	First aid measures	
4.1.	General information:	
4.1.1.	After eye contact:	Rinse with water for app. 15 minutes. If symptoms persist, consult a doctor.
4.1.2.	After skin contact:	Wash with water and soap.
4.1.3.	After inhalation:	Not applicable.
4.1.4.	After swallowing:	None.
4.1.5.	Additional medical advice:	Sodium alginate-alginate acid / natural etheric oils.

5.	Fire fighting measures	
5.1.	Suitable extinguishing agents:	Not applicable as not burnable.
5.2.	For safety reasons unsuitable extinguishing agents:	Not applicable as not burnable.
5.3.	Special dangers due to product, its combustion or gases:	None.
5.4.	Special protective equipment:	None.
5.5.	Additional information:	None.

6.	Accidental release measures	
6.1.	Person-related safety precautions:	When mixing product with water etc., ground and other surfaces will become extremely slippery. Intensively clean with water to avoid danger.
6.2.	Measures for environmental protection:	No special measures required.
6.3.	Measures for cleaning/collecting:	Residues should be removed by intensive use of water.
6.4.	Additional information:	None.

7.	Handling and storage	
7.1.	Handling:	
7.1.1.	Information on safe handling:	None.



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7.1.2.	Information on protection against explosions and fires:	None.
7.1.3.	Handling of flowded-out material:	Through canalisation system.
7.2.	Storage:	Protect from frost / store in closed original packagings.
7.3.	Special applications:	Biologically based adsorber of odours.

8.	Exposure controls and personal protection	
8.1.	Exposure limits:	None.
8.2.	Exposure limit values and monitoring:	
8.2.1.	Exposure limit values and monitoring at workplace:	None.
8.2.1.1.	Inhalation protection:	None.
8.2.1.2.	Handling protection:	None.
8.2.1.3.	Eye protection:	Protection glasses.
8.2.1.4.	Body protection:	None.
8.2.2.	Environmental exposure limit values and monitoring:	None.

9.	Physical and chemical properties	
9.1.	General information:	
9.1.1.	Appearance:	Gelatinizing, paste.
9.1.2.	Odour:	Light orange-/lemon odour.
9.2.	Important data on health and environmental protection / safety:	
9.2.1.	pH value:	6,8 – 7,5
9.2.2.	Boiling point / area:	Not applicable.
9.2.3.	Flash point:	Not applicable.
9.2.4.	Flammability:	Not applicable.
9.2.5.	Danger of explosion:	Not applicable.
9.2.6.	Properties enhancing flammability:	Not applicable.
9.2.7.	Vapour pressure:	Indes: 1.478



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9.2.8. Density:	app. 1,01
9.2.9. Solubility in water:	1:10 = 100 g/l
9.3. Additional information:	Conductance: 6-11 [mS/cm]

10. Stability and reactivity	
10.1. Conditions to be avoided:	None.
10.2. Agents to be avoided:	None.
10.3. Dangerous decomposition products:	None.

11. Toxicological information	
11.1. Toxicological data:	
11.1.1. Summary:	Sodium alginates are used as foodstuff agents and thus are not to be classified as toxic.
11.1.2. Cancer inducing effects:	No information on cancer inducing effects known.
11.1.3. Information on sensitization:	On direct contact irritations of skin and eyes are possible.
11.1.4. Information on swallowing:	No toxic reactions to be expected.

12. Ecological information	
12.1. Ecological toxicity:	None.
12.2. Mobility:	See no. 9.
12.3. Persistence and catabolism:	Sodium alginates are polysaccharides won from algae. Polysaccharides are biologically catabolizing and are used as culture mediums in the fields of sewage water treatment and soil biology. Ethereic oils are natural plant extracts and make only small percentage of the product.
12.4. Biological accumulation potential:	Not applicable.
12.5. Other toxic effects:	None.

13. Disposal considerations	
13.1. Product:	Can be discharged into canalization system when



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	product is diluted with water so that its viscosity does not lead to clogging. Dilute with water before flowing into canalisation. Absolutely suitable for sewage treatment plants.
13.2. Uncleaned packagings:	Where recycling is not possible, apply to local services.

14. Transport information	
14.1. Land transport:	
14.1.1. ADR / RID class:	No dangerous product with regard to regulations.
14.1.2. Danger sign:	None.
14.1.3. Danger code (Kemler):	None.
14.1.4. UN-Number:	No classification.
14.1.5. Proper technical name:	Adsorber of odours based on alginates.
14.2. Maritime transport ADR/ADR:	
14.2.1. ADR/ADR:	No dangerous product with regard to regulations.
14.2.2. Category:	
14.2.3. Proper technical name:	Adsorber of odours based on alginates.
14.3. Maritime transport:	
14.3.1. IMDG class:	No dangerous product with regard to regulations.
14.3.2. EMS-No.:	MFAG
14.3.3. UN-No.:	No classification.
14.3.4. Proper technical name:	Sodium alginate.
14.4. Air transport:	
14.4.1. ICAO / IATA class:	No dangerous product with regard to regulations.
14.4.2. UN / ID No.:	No classification.

15. Regulations	
15.1. Labelling according to EC regulations:	Not subject to labelling.
15.2. Signs and danger signs of the product:	
15.2.1. R-phrases:	None.
15.2.2. S-phrases:	None.



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15.3. National regulations:

15.3.1. Classification acc. to VbF: No classification as not burnable.

15.3.2. Techn. recommendation air: No classification according to TA Air.

15.3.3. Water hazard class: (1) (estimated)

16. Other information

Literature:

Maass, Dr. phil H.: Alginsäure und Alginate, Verlagsgesellschaft Heidelberg

Roth Dauderer: Toxikologische Enzyklopädie, Giftliste, Giftige krebserzeugende, gesundheitsschädliche und reizende Stoffe, ECOMED Verlagsgesellschaft, ISBN 3-609-73143-5

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Eberhard Quellmalz: Das neue Chemikaliengesetz, Handbuch der gefährlichen Arbeitsstoffe, WEKA-Verlag

G. Schmitt-Gleser: Abfallentsorgung, 5. Aufl., ECOMED Verlagsgesellschaft, ISBN 3-609-65730-8

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.