SAFETY DATA SHEET

Bona R870T



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
Product name	: Bona R870T
Product code	: Not available.
Product description	: adhesive
Product type	: Liquid.
Other means of identification	: Not available.

1.2 Relevant identified uses of the substance or mixture and uses advised against Not applicable.

1.3 Details of the supplier of the safety data sheet

Bona GmbH Jahnstrasse 12 D-65549 Limburg DEUTSCHLAND Tel. 06431-4008-0

e-mail address of person : marie.holmgren@bona.com responsible for this SDS

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number	
<u>Supplier</u>	
Telephone number	:
Hours of operation	:

SECTION 2: Hazards identification

2.1 Classification of the sub	stance or mixture
Product definition	: Mixture
Classification according to	Directive 1999/45/EC [DPD]
The product is not classified	as dangerous according to Directive 1999/45/EC and its amendments.
Classification	: Not classified.
See Section 16 for the full te	xt of the R phrases or H statements declared above.
See Section 11 for more deta	ailed information on health effects and symptoms.
2.2 Label elements	
Risk phrases	: This product is not classified according to EU legislation.
Safety phrases	: Not applicable.
Supplemental label elements	: Safety Data Sheet available for professional user on request.
Special packaging requirer	nents
Containers to be fitted with child-resistant fastenings	: Not applicable.

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SECTION 2: Hazards identification

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do : Not available. not result in classification

SECTION 3: Composition/information on ingredients

Substance/mixture	: Mixture				
			Class		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Trimethoxyvinylsilane	EC: 220-449-8 CAS: 2768-02-7	1-3	R10 Xn; R20	Flam. Liq. 3, H226	[1]
3- (Trimethoxysilyl)propylamine	EC: 237-511-5 CAS: 13822-56-5	1-5	Xi; R36	Not classified.	[1]
			See Section 16 for the full text of the R- phrases declared above.	See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid me	asures
General	: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the preparation itself. The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in nonallergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage.

4.3 Indication of any immediate medical attention and special treatment needed

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SECTION 4: First aid measures

- Notes to physician Specific treatments
- quantities have been ingested or inhaled.No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefight	ECTION 5: Firefighting measures		
5.1 Extinguishing media Suitable extinguishing media	: Recommended: alcohol-resistant foam, CO ₂ , powders, water spray.		
Unsuitable extinguishing media	: Do not use water jet.		
5.2 Special hazards arising f	rom the substance or mixture		
Hazards from the substance or mixture	: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.		
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.		
5.3 Advice for firefighters			
Special protective actions for fire-fighters	: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.		
Special protective equipment for fire-fighters	: Appropriate breathing apparatus may be required.		

: Treat symptomatically. Contact poison treatment specialist immediately if large

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	te	ctive equipment and emergency procedures
For non-emergency personnel	:	Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.
6.2 Environmental precautions	:	Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
6.3 Methods and materials for containment and cleaning up	:	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Preferably clean with a detergent. Avoid using solvents.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

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SECTION 7: Handling and storage

7.1 Precautions for safe handling	 Avoid contact with skin and eyes. Avoid inhalation of vapor, spray or mist. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws.
7.2 Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Notes on joint storage Keep away from: oxidizing agents, strong alkalis, strong acids. Additional information on storage conditions Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed. No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end use(s)	
Recommendations	: Not available.

Industrial sector specific : Not available. solutions

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Derived effect levels

No DELs available.

Predicted effect concentrations

No PECs available.

8.2 Exposure controls

Appropriate engineering	: Provide adequate ventilation. Where reasonably practicable, this should be achieved
controls	by the use of local exhaust ventilation and good general extraction. If these are not
	sufficient to maintain concentrations of particulates and solvent vapors below the
	OEL, suitable respiratory protection must be worn.

Individual protection measures

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection Skin protection	: Use safety eyewear designed to protect against splash of liquids.

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SECTION 8: Exposure controls/personal protection

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Hand protection	: Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.
Gloves	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: nitrile rubber
	The recommendation for the type or types of glove to use when handling this product is based on information from the following source:
	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	: Personnel should wear antistatic clothing made of natural fibers or of high- temperature-resistant synthetic fibers.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties **Appearance Physical state** : Liquid. [Viscous liquid. Paste.] Color : Beige. Odor : Characteristic. **Odor threshold** : Not available. pН : Not available. Melting point/freezing point : Not available. Initial boiling point and boiling : Not available. range : Closed cup: >100°C **Flash point Evaporation rate** : Not available. Flammability (solid, gas) : Not available. **Burning time** : Not applicable. **Burning rate** : Not applicable. Upper/lower flammability or : Not available. explosive limits : Not available. Vapor pressure Vapor density : Not available. **Relative density** : 1,71 Solubility(ies) : Insoluble in the following materials: cold water and hot water. Partition coefficient: n-: Not available. octanol/water Auto-ignition temperature : Not available. **Decomposition temperature** : Not available. Viscosity : Dynamic: 147000 mPa·s **Explosive properties** : Not available. **Oxidizing properties** : Not available. 9.2 Other information

No additional information.

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SECTION 10: Stability and reactivity

10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredie	nts.
10.2 Chemical stability	Stable under recommended storage and handling conditions (see section 7).	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur	-
10.4 Conditions to avoid	When exposed to high temperatures may produce hazardous decomposition products.	
10.5 Incompatible materials	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.	
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.	S

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no data available on the preparation itself. The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in nonallergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Acute toxicity

Product/ingredient name	e Result	Species	Dose	Exposure
Trimethoxyvinylsilane	LC50 Inhalation Gas. LD50 Dermal LD50 Oral	Rat Rabbit Rat	16,8 mg/m ³ 3200 mg/kg 7100 mg/kg	4 hours - -
Conclusion/Summary	: Not available.			
Irritation/Corrosion				
Conclusion/Summary	: Not available.			
Sensitization				
Conclusion/Summary	: Not available.			
<u>Mutagenicity</u>				
Conclusion/Summary	: Not available.			
Carcinogenicity				
Conclusion/Summary	: Not available.			
Reproductive toxicity				
Conclusion/Summary	: Not available.			
Teratogenicity				
Conclusion/Summary	: Not available.			

Other information

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the preparation itself. Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

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SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
Trimethoxyvinylsilane	Acute EC50 169 mg/l	Daphnia	48 hours
	Acute IC50 210 mg/l	Algae	72 hours
	Acute LC50 191 mg/l	Fish	96 hours

Conclusion/Summary

: Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Trimethoxyvinylsilane	-	-	Not readily

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

PBT	: Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects

effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Hazardous waste	 Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.
European waste catalogue (EWC)	 The European Waste Catalogue classification of this product, when disposed of as waste, is: 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09. If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.
Packaging	
Methods of disposal	 The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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SECTION 13: Disposal considerations

Special precautions

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN/ADNR	IMDG	ΙΑΤΑ
14.1 UN number	Not available.	Not available.	Not available.	Not available.
14.2 UN proper shipping name	Not available.	Not available.	Not available.	Not available.
14.3 Transport hazard class(es)	Not available.	Not available.	Not available.	Not available.
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
14.6 Special precautions for user	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Additional information	-	-	-	-

14.7 Transport in bulk: Not available.according to Annex II ofMARPOL 73/78 and the IBCCode

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorization Substances of very high concern None of the components are listed. Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and

use of certain dangerous substances, mixtures and articles		
Other EU regulations		
VOC for Ready-for-Use Mixture	1	Not applicable.
Europe inventory	:	Not determined.
Black List Chemicals	1	Not listed

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SECTION 15: Regulatory information

Priority List Chemicals	1	Not listed
Integrated pollution prevention and control list (IPPC) - Air	:	Not listed
Integrated pollution prevention and control list (IPPC) - Water	:	Not listed
International regulations Chemical Weapons Convention List Schedule I Chemicals	:	Not listed
Chemical Weapons Convention List Schedule II Chemicals	:	Not listed
Chemical Weapons Convention List Schedule III Chemicals	:	Not listed

- 15.2 Chemical Safety Assessment
- : This product contains substances for which Chemical Safety Assessments are still required.

SECTION	16:	Other	information
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CEPE code	: 8
Indicates information	on that has changed from previously issued version.
Abbreviations and ac	erronyms : ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
Classification accord	ing to Regulation (EC) No. 1272/2008 [CLP/GHS]

<u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u> Not classified.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements	H226 Flammable liquid and vapor.	
Full text of classifications [CLP/GHS]	Flam. Liq. 3, H226 FLAMMABLE LIQUID	S - Category 3
Full text of abbreviated R phrases	R10- Flammable. R20- Harmful by inhalation. R36- Irritating to eyes.	
Full text of classifications [DSD/DPD]	Xn - Harmful Xi - Irritant	
Date of printing	2012-02-29.	
Date of issue/ Date of revision	2012-02-29.	
Date of previous issue	No previous validation.	
Version	1.01	
Notice to reader		

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SECTION 16: Other information

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.



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