

Date of issue: 02.02.2009 Replaces Data Sheet of : 31.01.2008

*** alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

Bona[™]**1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING****1.1 Identification of Substance or Preparation**

Trade Name : R850, R850T

Article No. : n.av.

Preparation No. : B137-V35

Registration No. : n.av.

1.2 Use of the substance / preparation:

Adhesive

1.3 Company / Undertaking Identification**1.3.1 Address of the Company / Supplier:**

Bona GmbH, Jahnstraße 12, D - 65549 Limburg

Telephone : +49-6431-4008-0, Fax : +49-6431-4008-25, e-mail: n.av.

1.3.2 Responsible :

Chemie & Vorschrift, Kannheideweg 35, D-53123 Bonn-Duisdorf; E-Mail: info@chemie-vorschrift.de

1.4 Emergency - Telephone

Information Centre Specialising in Symptoms of Poisoning

Telephone : +49 - 761 - 19 240

Emergency - Telephone of Company / Undertaking

Telephone : +49-6431-4008-0 (08:30 - 16:30)

2 HAZARDS IDENTIFICATION**2.1 For Humans** (additional information is given under item 11) :

No special dangers known.

2.2 For the Environment :

Product may soil public waters by raising overall contamination.

2.3 For Materials:

None.

3 COMPOSITION / INFORMATION ON INGREDIENTS**3.1 Chemical Characterisation:**

Mixture of synthetic resin, mineralic fillers and additives

3.2 Dangerous Ingredients:

CAS - No.	Index - No.	EEC - No.	Material	m% - range	Symbol	R - phrases
2768-02-7	n.av.	220-449-8	Trimethoxyvinylsilane	1 - 5%	Xn	R 10-20

Remarks: Classification and labelling of a product is indicated under item 15.

4 FIRST AID MEASURES**4.1 Inhalation:**

The following symptoms may occur: Confusion, dizziness.

Remove from danger area and provide for fresh air. In the event of symptoms occurring, seek medical treatment.

4.2 Skin Contact :

Wash with soap and water.

In the event of symptoms occurring, seek medical treatment.

4.3 Eye Contact :

Flush eyes out immediately with large amounts of water with eye lids lifted.

Call physician.

4.4 Ingestion :

Rinse mouth out and drink plenty of water.

In the event of symptoms occurring, seek medical treatment.

4.5 Note to Physician:

Danger of aspiration when vomiting or irrigating stomach.

Symptomatic treatment.

4.6 Special Equipment:

n.av.

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5 FIRE FIGHTING MEASURES

- 5.1 **Suitable Extinguishing Media** : Foam, dry chemicals, CO₂, water spray jet
- 5.2 **Extinguishing Media to Avoid** : Full water jet.
- 5.3 **Fire and Explosion Hazards** :
In case of fire, product may form: Organic crackproducts and carbon oxides., inorganic dust
- 5.4 **Special Protective Equipment** :
Wear positive pressure self-contained breathing apparatus.
Wear full protective clothing.
- 5.5 **Additional Information** : Spray down fumes resulting from fire.

6 ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal Precautions** :
See No. 8.3 Personal Protective Equipment. Provide sufficient ventilation. High risk of slipping due to leakage / spillage of product.
- 6.2 **Environmental Precautions and Methods for Cleaning up** :
Do not allow to enter drainage / surface-water / ground-water. Inform responsible authorities after accidental conduction. Take up with suitable absorbent material.
- 6.3 **Further Information** : None.

7 HANDLING AND STORAGE (For national regulations refer to item 15.2)

- 7.1 **Handling**
 - 7.1.1 **Precautions for Safe Handling** :
Keep container tightly closed. Close container straight after use or if empty. Application only when sufficient ventilated.
 - 7.1.2 **Precautions in Case of Fire and Explosion** :
No special measures necessary
- 7.2 **Storage**
 - 7.2.1 **Storage Instructions** :
Provide sufficient ventilation.
 - 7.2.2 **Store away from** :
Store away from oxidizers.
 - 7.2.3 **Further Information on Storage Conditions** :
Protect container from warming up and direct sunlight.
- 7.3 **Specific use(s)**:

8 Exposure Controls and Personal Protection

- 8.1 **Exposure limit values** :

Material	Limit Value :
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- 8.2 **Exposure controls**
 - 8.2.1 **Occupational exposure controls**:
Avoid contact with eyes and skin. Take off contaminated, saturated clothing immediately. Do not inhale dust, gas, vapours, fire -fumes. Do not eat, drink or smoke during work.
 - 8.2.1a **Respiratory Protection** : If ventilation is insufficient, wear respiratory protection Filter A
 - 8.2.1b **Hand Protection** : In case of prolonged skin contact use protective gloves. (NBR)
 - 8.2.1c **Eye Protection** : Tightly fitting goggles
 - 8.2.1d **Skin Protection** : Light protective clothing
 - 8.2.1e **Further Information** : Refer to special restrictions in wearing protective equipment
 - 8.2.2 **Environmental exposure controls**: n.av.

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9.2.1 pH-value, undiluted : n.av., pH-value, 1% aqueous solution : n.av.

9.2.2 Boiling point / Boiling - range (°C) : n.av., Melting point / Melting range (°C) : n.av.

9.2.3 Flash point (°C, c.c.) : > 100

9.2.4 Flammability (EEC A10/A13) : n.av.

9.2.5 Ignition temperature (°C) : n.av.

9.2.6 Autoflammability (EEC A16) : n.av.

9.2.7 Oxidising properties : None.

9.2.8 Explosion hazard : None.

9.2.9 Explosion limits (Vol.%) lower : n.av., upper : n.ap.

9.2.10 Vapour pressure : n.av.

9.2.11 Density (g/ml) : ~ 1,4

9.2.12 Solubility (in Water) : Partially miscible Soluble in : most organic solvents.

9.2.13 Partition coefficient, n-Octanol/Water : n.av.

9.2.14 Viscosity : n.av.

9.2.15 Solvent separation test : n.ap.

9.2.16 Solvent content (m %) : n.ap.

9.3 Other information

9.3.1 Thermal decomposition (°C) : n.av.

9.3.2 Vapour density (Air = 1) : Vapours are heavier than air.

9.3.3 Evaporation rate : n.av.

10 STABILITY AND REACTIVITY**10.1 Conditions to Avoid :**

Observe the usual precautionary measures for handling chemicals.

10.2 Materials to Avoid :

Reactions with strong oxidizing agents.

10.3 Hazardous Decomposition Products :

No dangerous decomposition products when properly handled.

10.4 Further Information :

None.

11 TOXICOLOGICAL INFORMATION**11.1 Toxicological Tests :****11.1.1 Acute Health Effects :**Inhalation, LC₅₀ rat, (mg/l/4h) : n.av.Ingestion, LD₅₀ rat, (mg/kg) : n.av.Skin - contact, LD₅₀ rat, (mg/kg) : n.av.

Irritation (to skin / eye) : None.

Sensitisation : n.av.

11.1.2 Subacute / Chronic Toxicity :

Carcinogenicity : n.av.

Mutagenicity : n.av.

Teratogenicity : n.av.

Narcotic Effects : None.

11.2 Practical Experience**11.2.1 Observations relevant for classification :**

n.av.

11.2.2 Further Observations :

None.

11.3 General Remarks :

Classification of the preparation has been done by calculation in accordance with EEC directives.

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12 ECOLOGICAL INFORMATION

- 12.1 **Ecotoxicity :**
n.av.
- 12.2 **Mobility :**
n.av.
- 12.3 **Persistence and degradability:**
The product is partially biodegradable. Substantial residues remain.
- 12.4 **Bioaccumulative potential:**
n.av.
- 12.5 **Results of PBT assessment**
n.av.
- 12.6 **Other adverse effects**
- 12.6.1 COD-Value, mg/g : n.av.
- 12.6.2 BOD₅-Value, mg/g : n.av.
- 12.6.3 AOX-Remarks : Not relevant
- 12.6.4 Significant Components : None.
- 12.6.5 Other adverse effects :

13 DISPOSAL CONSIDERATIONS (For national Regulations refer to item 15.)

- 13.1 **Residues**
- 13.1.1 Recommendation : D 10 / R 1 Waste - Code - No. : 08 01 12
In addition comply with the regional authorities.
- 13.1.2 Safe Handling: See item 7 and 15.
- 13.2 **Contaminated Packaging**
- 13.2.1 Recommendation : Wash with suitable cleaner. Otherwise as described under Residues.
- 13.2.2 Safe Handling : As described under Residues.

14 TRANSPORT INFORMATION

14.1 Transportation by Road or Railway according to ADR and RID

Remarks : No dangerous goods according to ADR

Name and Description:

Class :

UN - No :

Risklabel:

Classification Code:

Packing Group :

Hazard-No.:

Transport-category:

Limited Quantity:

14.2 Classification for Transportation by Inland-Navigation according to ADNO

Remarks : Classification has not been done.

Class : Division : Category :

14.2.1 **Description of Goods :**

14.2.2 **Remarks :**

14.3 Classification for Transportation by Vessels according to IMDG

Remarks : No dangerous goods according to IMDG

Class :

UN-No. :

Packing Group :

14.3.1 **EmS-No. :**

14.3.2 **Marine Pollutant :**

14.3.3 **Instruction for Declaration and Labelling :**

Proper Shipping Name :

Risk Label :

14.3.4 **Remarks :**

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Class : UN-No. : Packing Group :

14.4.1 Instruction for Declaration and Labelling :**Proper Shipping Name :****Risk Label :**

Packing Instructions, Passenger : Cargo :

14.4.2 Remarks :**15 REGULATORY INFORMATION****15.1 Classification according to EEC-Regulations :**

Classification required by EEC : No.

Hazard Identification :

Component(s) :

R-Phrases :

Applicable Exemptions :

Hazard Symbol(s) :

S-Phrases :

Additional Markings :

15.1.1 The above mentioned labelling is valid for distribution to industrial user.

Labelling (formats, exemptions, additional markings) has to be done according to respective regulations.

15.2 National Regulations

VOC-Content: n.av.

16 OTHER INFORMATION**Text of R phrases mentioned in Section 3**

R10 - Flammable.

R20 - Harmful by inhalation.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible.

They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

Prepared by : Chemie & Vorschrift, Kannheideweg 35, D-53123 Bonn-Duisdorf, ☎ +49-228-74 81 824

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