

# EU- Safety Data Sheet

according to the EU guidelines 91/155/EWG

last update: 10.10.2007



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Trade name: **Onar<sup>®</sup>EUB**

## 1. Product/Preparation/Company

Trade name: **Onar<sup>®</sup>EUB**

Manufacturer: Minerva Biolabs GmbH  
Landhausring 7  
12683 Berlin  
GERMANY  
Tel: +49 (0)30 2000 4370  
Fax: +49 (0)30 2000 4379

## 2. Composition of the Product Information on Ingredients

Chemical characterisation: Solution in water

Active ingredients and hazardous components

CAS-No.	Einecs-No.	Name	Contents	Danger	Risks
---	---	3` EUB oligonucleotide 23 mer	< 2 µg	---	---
---	---	5` EUB oligonucleotide 23 mer	< 2 µg	---	---
---	---	Desoxynucleotides dATP, dTTP, dCTP, dGTP	< 5 µg	---	---
7447-40-7	231-211-8	Potassium chloride	27,6 mg	---	R 36/37/38
7786-30-3	232-094-6	Magnesium chloride	2,25 mg	Xi	R 37/45/28A
7786-1	201-064-4	Tris (hydroxymethyl) aminomethane (Tris)	8,9 mg	---	---
---	---	DNA-fragment, 468 bp, <i>Bacillus subtilis</i> 16S rDNA	0,02 fg	---	---
---	---	DNA fragment including 3` EUB, 5` EUB and 210 bp of the <i>Staphylococcus aureus</i> genome	4,2 pg	---	---

## 3. Possible Hazards

Material may cause irritation to the eyes, skin, mucous membranes, and the upper respiratory tract.

## 4. First Aid Measures

General Advice: Remove contaminated clothing immediately.

On skin contact: Wash thoroughly with soap and copious amounts of water.

On contact with eyes: Immediately wash out with plenty of water, consult an eye specialist.

On ingestion: Dilute the concentrate by drinking plenty of water, look for medical advice immediately.

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**5. Fire Fighting Measures** Noncombustible  
Use extinguishing media appropriate to surrounding conditions.

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**6. Measures in Case of Accidental Release** Measures for personal safety: Wear protective gloves and goggles  
Environmental precautions: Product must not enter ground, sewerage system or water course  
Cleaning and absorption methods: Collect with absorbent material

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**7. Handling and Storage** Measures for safe handling: Always keep the containers tightly closed  
Prevention of fire and explosions: No particular measures  
Requirements for storage rooms and containers: Store in the original container, at temperatures of +2 to +8°C. After rehydration of the lyophilized compounds, store below -18°C  
Advice for storage together with other products (observe national regulation for storage of chemicals): Keep away from foodstuffs

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**8. Exposure Controls and Personal Protection** General protective and hygiene measures: Wash hands before break and at the end of working period  
Hand protection: Wear synthetic or rubber gloves  
Eye protection: Wear goggles

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**9. Physical and Chemical Properties** Form: Liquid, powder  
Colour: Colourless  
Odour: none

<i>Value/Range</i>	<i>Unit</i>	<i>Method</i>
Solubility in water:		as desired
pH-value: (50 g/l)	at 20°C	approx. 8,5

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**10. Stability and Reactivity** No decomposition provided product is correctly used  
Contains no hazardous decomposition products

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## 11. Toxicological Information

Acute toxicity: KCl: oral; rat; LD<sub>50</sub>: 2600 mg/kg  
MgCl<sub>2</sub>: oral; rat; LD<sub>50</sub>: 8100 mg/kg  
Tris: oral; rat; LD<sub>50</sub>: 5900 mg/kg

On mucous membrane: irritating

On eyes: irritating

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## 12. Ecological Information

General indication: Onar<sup>®</sup>EUB is biodegradable

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## 13. Disposal Considerations

The product and packaging should be disposed of in accordance with the instructions of the local authorities.

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## 14. Regulatory Information

EEC-regulations and guidelines: Observe safety instructions for work places.  
Keep out of reach of children!

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## 15. Other Information

The information given herein are based on the present state of our knowledge and do not therefore guarantee certain properties; nor do they create a contractual legal position.

Responsible for the Safety Data Sheet: Scientific-technical department

Contact for scientific requests: Dr. Dirk Vollenbroich  
Ms. Sandra Vierich