

Material Safety Data Sheet

Enterococci Selective Agar acc. to Slanetz-Bartley



According to Regulation (EC) No. 1907/2006
Version 2.0, Issue Date: 2014-06-24, Replaces version: 2004-07-20

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

1.1 Product Identifier

Article number

TN 1132

Trade name

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1.2 Relevant Identified uses of the substance or mixture and uses advised against

Intended use:

Used for the isolation and identification of enterococci, especially from water (in accordance with DIN EN ISO 7899-2:2000) and from foodstuffs (§ 64 German Food and Feed Code).

Uses advised against: -

1.3 Details of the supplier of the Safety data sheet

Name of supplier

sifin diagnostics gmbh
Berliner Allee 317-321
13088 Berlin, Germany

Contact for technical information

Telefon: +49 (0)30 927030-0 (Head of Department Culture Media)
Telefax: +49 (0)30 927030-30
E-Mail: info@sifin.de

E-Mail, competent person

msds@conceptec.de

1.4 Emergency telephone number

Phone: +49 (0)30-927030-0, Safety Officer for Medical Devices
Mo. – Th. 7.30 a.m. - 4.15 p.m., Fr. 7.30 a.m. - 3.00 p.m.

SECTION 2: Hazards Identification

2.1 Classification of the mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Acute toxicity, Category 4, Oral, H302
Chronic aquatic toxicity, Category 3, H412

Classification according to Directive 1999/45/EG (DPD)

Xn, Harmful, R22
R52/53

2.2 Label elements

Labelling according to Regulation (EC) 1272/2008 (CLP)

Hazard elements for labelling, contains Sodium azide

Hazard pictogramme(s)



Signal word

Warning

Hazard statements (H-statement)

H302: Harmful if swallowed.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements (P-statement)

P273: Avoid release to the environment.
P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician

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	if you feel unwell.
Additional labelling elements	EUH032: Contact with acids liberates very toxic gases
Labelling according to Directive 1999/45/EG (DPD)	
Hazard elements for labelling, contains	Sodium azide
Hazard symbols	
Risk phrases (R-phrases)	R22: Harmful if swallowed. R32: Contact with acids liberates very toxic gases. R52/53: Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment
Safety phrases (S-phrases)	S46: If swallowed, seek medical advice immediately and show this container or label. S61: Avoid release to the environment. Refer to special instructions/ material safety data sheet.

2.3 Other hazards

None known. Minimum standards for protection measures (TRGS 500) as common in the chemical industry should be followed.

SECTION 3: Composition/Information on Ingredients

3.2 Mixtures

Description

Mixture of the following hazardous substances with non-hazardous additives

Hazardous ingredients

Substance name	CAS-No.	EC-No.	REACH-No.
Sodium azide	26628-22-8	247-852-1	-
Conc. (w/w %)	Classification acc. to DSD	Classification acc. to CLP	Note
≥ 0,1 – < 1 %	 T+, R28 R 32 N, R 50/53	 Akute Tox. 2, H300 Aqua. Akut 1, H400 Aqua. Chron. 1, H410	[1]

[1] = Hazardous or environmentally harmful substance; [2] = substance with a Community workplace exposure limit; [3] = PBT substance; [4] = vPvB substance; [5] = SVHC-candidate (substance of very high concern).
For the full text of the R-phrases / H-Statements mentioned in this section, see section 16.

SECTION 4: First-Aid-Measures

4.1 Description of First-Aid-Measures

General Advice: Immediately remove any clothing soiled by the product.

Inhalation: Fresh air. If breathing stops: immediately apply artificial breathing, if necessary oxygen. Call a physician immediately.

Skin contact: Wash off with water and soap. Call a physician immediately.

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician immediately.

Ingestion: Give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are in wide awake and fully conscious), administer activated charcoal (20-40g in a 10% slurry) and consult a doctor as quickly as possible.

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4.2 Most important symptoms and effects, both acute and delayed

Irritant effects, cough, shortness of breath, dizziness, unconsciousness, nausea, vomiting, collapse, circulatory collapse, headache, convulsions, CNS disorders.

4.3 Indications of any immediate medical attention and special treatment

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray jet, carbon dioxide (CO₂), foam, extinguishing powder.
Unsuitable extinguishing media: Water full jet

5.2 Special Hazards arising from the substance or mixture

Hazardous combustion products: nitrous gases, nitric oxides

5.3 Advice for fire fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing (see Section 8).
Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area. Wear appropriate protective equipment (see Section 8).

6.2 Environmental precautions

Do not empty into drains.

6.3 Methods and material for containment and cleaning up:

Cover drains. Collect, bind and pump off spills. Observe possible material restrictions (see Section 7.2 and 10.5). Take up dry. Dispose of properly. Clean up affected area. Avoid formation of dusts.

6.4 Reference to other sections

See Section 7 for Handling and Storage, Section 8 for appropriate personal protective equipment and Section 13 for disposal considerations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid generation of dusts. In case of formation of dusts: ensure adequate ventilation.

Precautions against fire and explosion: No special measures necessary.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storing conditions:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 10...25 °C.

Packaging materials: Keep only in the original container.

Conditions for storage rooms and vessels: No special measures necessary.

Hints for joint storage: Store separate from products of the following storage classes: 1, 5.1A, 6.2, 7.

Joint storage with products of storage classes 2.1, 3, 4.1A, 4.2, 4.3, 5.1B-C, 5.2, 6.1A-B allowed, if specific conditions are kept (for further information: see Section 7.2 TRGS 510).

Storage class: 10-13

7.3 Specific end use(s)

None known.

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SECTION 8: Exposure controls / Personal protective equipment

8.1 Control parameters

Exposure limits

Substance	CAS-No.	Value	Limit value	Source
Sodium azide	26628-22-8	Limit value (short term)	0,3 mg/m ³	NIOSH (US)
Sodium azide	26628-22-8	Limit value (long term)	0,1 mg/m ³	EH40 WEL (UK)
Sodium azide	26628-22-8	Limit value (short term)	0,3 mg/m ³	EH40 WEL (UK)
Sodium azide	26628-22-8	IOELV (long term)	0,1 mg/m ³	RL 2000/39/CE (EU)
Sodium azide	26628-22-8	IOELV (short term)	0,3 mg/m ³	RL 2000/39/CE (EU)

Control- and monitoring procedures: see for example "NIOSH Manual of Analytical Methods", National Institute for Occupational Safety and Health.

DNEL- / DMEL-Value

Substance	-
EC-No.	-
CAS-No.	-

Exposure Route	Species	Time of exposure / Effect	Value	Note
-	-	-	-	-

PNEC-Value

Substance	-
EC-No.	-
CAS-No.	-

Environmental compartment	Species / Time of exposure / Effect	Value
-	-	-

8.2 Exposure controls

Appropriate engineering controls: Technical measures and appropriate working procedures should be given priority over the use of personal protective equipment:

Individual protection measures, such as personal protective equipment: Do not breathe dusts. Avoid skin and eye contact.

Hygienic measures	Keep away from food and feeding stuff. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Separate storage of protective clothes.
Skin protection	Protective clothes
Hand protection	Nitrile rubber (reference substance: sodium azide)

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	Full contact:	Splash contact:
Glove material	Nitrile rubber	Nitrile rubber
Glove thickness (mm)	≥ 0.11	≥ 0.11
Break through time (min)	≥ 480	≥ 480
	<p>The glove material has to be impermeable and resistant to the product. Due to missing tests no recommendation to the glove material can be given for the product.</p> <p>Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.</p> <p>The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.</p>	
Respiratory protection	Respiratory protection in case of dust formation. Filtering device: Filter Type P2.	
Eye/ face protection	Goggles.	
Thermal hazards	None known.	
Others	None known.	
Environmental Exposure controls -	Do not empty into drains.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Solid
Form	powder
Particle size	Not applicable
Colour	Beige
Odour	Not applicable
Odour threshold	Not applicable
pH	Final pH at 25 °C: 7.2 ± 0.2
Melting point / freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Lower flammability or explosive Limits	No data available
Upper flammability or explosive Limits	No data available
Minimum ignition energy	No data available
Vapour pressure	Not applicable
Relative density	No data available

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Solubility(ies)	No data available
Partition coefficient; n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Thermal decomposition	No data available
Viscosity	No data available
Explosive properties	The product itself is not explosive.
Oxidising properties	The product itself is not oxidizing.
9.2 Other Information	
Density	No data available
Bulk density	No data available
Further information	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

Dangerous reactions are not expected handling the product according to the intended use.

10.2 Chemical Stability

The product is chemically stable under standards ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Risks of toxic gas formation exists with the following substances: Acids.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

Hazardous combustion products: nitrous gases, nitric oxides.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity

Exposition	LD50/LC50-Value	Species/test system	Source
Oral	1041 mg/kg (ATE)	Calculation method	

Skin irritation

No data available.

Eye irritation

No data available.

Sensitisation: No data available.

Repeated dose toxicity: No data available.

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Mutagenicity: No data available.
Carcinogenicity: No data available.
Toxic for reproduction: No data available.
STOT – single exposure: No data available.
STOT – repeated exposure: No data available.

11.2 Further Information

Symptoms related to the physical, chemical and toxicological characteristics:
Irritant effects, cough, shortness of breath, dizziness, unconsciousness, nausea, vomiting, collapse, circulatory collapse, headache, convulsions, CNS disorders.
Delayed and immediate effects as well as chronic effects from short and long-term exposure:
No data available
Further toxicological information: No data available.

Components: Sodium azide
Acute Toxicity

Exposition	LD50/LC50-Value	Species/test system	Source
Oral	10 mg/kg	Rabbit	Supplier MSDS
inhalation	37 mg/m ³	Rat	Supplier MSDS
dermal	20 mg/kg	Rabbit	Supplier MSDS

SECTION 12: Ecological information

Mixture

12.1 Toxicity

Toxicity	Species/test system	Value
-	-	-

12.2 Persistence and degradability

Biodegradation

Method	Elimination rate	Classification	Source
-	-	-	-

Biodegradation/Further Information: No data available.
Further Information: No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil:

No data available.

12.5 Results of der PBT & vPvB assessment:

Product does not contain substances which meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects

Biological effects: No data available.
Further information on ecology: Discharge in the environment must be avoided.

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Components: Sodium azide

Acute Toxicity

Toxicity	Species/test system	Value
<i>Toxicity to fish</i>		
LC50	Lepomis macrochirus (bluegill sunfish), 96 h (ECETOX)	0,7 mg/l
<i>Toxicity to daphnia and other aquatic invertebrates</i>		
EC50	Daphnia pulex (water flea), 48 h (ECETOX)	4,2 mg/l
<i>Toxicity to algae</i>		
IC50	Cross-cultivation of Green algae (Lit.)	272 mg/l
<i>Toxicity to bacteriae</i>		
EC50	Photobacterium phosphoreum (Lit.)	38,5 mg/l

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product: Recommendation: Waste can be disposed of in appropriate and approved facilities in compliance with applicable technical regulations following consultation with approved waste disposal management companies and authorities in charge.

Uncleaned Packaging: Recommendation: Completely emptied packages can be recycled. Packing which cannot be properly cleaned must be disposed of. Observe local/state/federal regulations.

Cleaned Packaging: Non-contaminated packages must be recycled or disposed of.

Waste codes / waste designations according to EWC / AVV: The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National and local regulations must be observed. For information on labelling please refer to section 2 of this document.

EU legislations: Subject to Directive 96/82/EG: not applicable.

National Regulations: -

Restrictions to occupation: Observe employment restrictions for pregnant and nursing mothers according to the 'mother protection guideline' (92/85/EEC). Observe restrictions to employment for juveniles according to the 'protection of young people at work directive' (94/33/EC).

TA Air

CAS-No.	Substance	Number	Class
-	-	-	-

Water hazard class: 1 (classification according to Annex 4 VwVwS (Deutschland)).

15.2 Chemical safety assessment

For this product a chemical assessment was not carried out.

SECTION 16: Other Information

Further Information: None.

Full text of R-phrases referred to under Sections 2 and 3

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R-phrases	Text
22	Harmful if swallowed.
28	Very toxic if swallowed.
32	Contact with acids liberates very toxic gases
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of H-Statements referred to under Sections 2 and 3

H-statement	Text
300	Fatal if swallowed.
302	Harmful if swallowed.
400	Very toxic to aquatic life.
410	Very toxic to aquatic life with long lasting effects
412	Toxic to aquatic life with long lasting effects.
EUH032	Contact with acids liberates very toxic gases

Further Information: The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Changes: The present MSDS is a completely revised MSDS fulfilling the requirements of Annex II of Regulation (EC) 1907/2006 and Annex II of Regulation (EC) 453/2010.