Material Safety Data Sheet
Acetamide Solution

According to Regulation (EC) No. 1907/2006
Version 2.0, Issue Date: 2014-06-30, Replaces version: 2013-03-18

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

1.1 Product Identifier

Article number
TN 1512; TN 1513

Trade name
Acetamide Solution

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

Intended use
Used to detect ammonia after the addition of Nessler's Reagent during the identification of pseudomonads.

Uses avised 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)
This mixture is classified as not hazardous according to Regulation (EC) 1272/2008.

Classification according to Directive 1999/45/EC (DPD)
This mixture is classified as not hazardous according to Directive 1999/45/EC.

2.2 Label elements

Labelling according to Regulation (EC) 1272/2008 (CLP)
This product does not need to be labelled in accordance with Regulation (EC) 1272/2008.

Additional Labelling Elements
Safety data sheet available on request.

Labelling according to Directive 1999/45/EC (DPD)
This product does not need to be labelled in accordance with Directive 1999/45/EC.

Additional Labelling Elements
Safety data sheet available on request for professional users.

2.3 Other hazards

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

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SECTION 3: Composition/Information on Ingredients

3.2 Mixture:
Hazardous ingredients

Substance name	CAS-No.	EC-No.	REACH-No.
Acetamide	60-35-5	200-473-5	-
Conc. (w/w %)	**Classification acc. to DSD**	**Classification acc. to CLP**	**Note**
0,1 – 1,0 %	 Xn, R40	 Carc. Cat. 2, H351	[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: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin contact: Wash off with soap and plenty of water. Consult a physician.
Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes. If symptoms persist, consult a doctor.
Ingestion: make victim drink water (maximum of 2 drinking glasses). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
No information available.

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 (CO_2), foam, extinguishing powder.
Unsuitable extinguishing media: Water full jet

5.2 Special Hazards arising from the substance or mixture
Hazardous combustion products: Nitrogen oxides (NO_x).

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
Do not breathe vapours/aerosols. Avoid substance contact. Avoid formation of dusts. Ensure adequate ventilation. Evacuate the danger area. Wear appropiate 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 and 10). Take up with liquid-absorbing material (e.g. Chemizorb®) and dispose of according to national/local authorizations. Clean up affected area.

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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 generation of vapours/aerosols. In case of formation of vapours/aerosols: ensure adequate ventilation.
Precautions against fire and explosion: No special measures necessary.

7.2 Conditions for safe storage, including any incompatabilities

Technical measures and storing conditions: Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature: light-protected, 2...8 °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 Spezific end use(s)

None known.

SECTION 8: Exposure controls/ Personal protective equipment

8.1 Control parameters

Exposure limits

Substance	CAS-No.	Value	Limit value	Source
-	-	-	-	-

Control- and monitoring procedures: see for example "Empfohlene Analysenverfahren für Arbeitsplatzmessungen", Schriftenreihe der Bundesanstalt für Arbeitsschutz and "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.	-

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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 vapours/aerosols. Avoid eye and skin 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 clothing.	
Skin protection	Protective clothing.	
Hand protection	Nitrile rubber (reference substance: Acetamide)	
	Full contact:	Splash contact:
Glove material	Nitrile rubber	Nitrile rubber
Glove thickness (mm)	0.11 mm	0.11 mm
Break through time (min)	> 480 min	> 480 min
	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. 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. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.	
Respiratory protection	Respiratory protection in case of dust formation. Filtering device: Filter P1.	
Eye/ face protection	Goggles.	
Thermal hazards	None known.	
Others	None known.	
Environmental Exposure controls	Do not empty into drains.	

SECTION 9: Physical and chemical porperties

9.1 Information on basic physical and chemical properties

Appearence	Liquid
Form	Not applicable.
Particle size	Not applicable.
Colour	Colourless.
Odour	Odourless.
Odour threshold	Not applicable.

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pH	No data available.
Melting point / freezing point	No data available.
Initial boiling point and boiling range	Not determined.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not determined.
Lower flammability or explosive Limits	Not applicable.
Upper flammability or explosive Limits	Not applicable.
Minimum ignition energy	Not determined.
Vapour pressure	Not applicable.
Relative density	No data available.
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
See Section 10.1.

10.4 Conditions to avoid
Strong heating.

10.5 Incompatible materials
No data available.

10.6 Hazardous decomposition products
Hazardous combustion products: Nitrogen oxides (NO_x).

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SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity

Exposition	LD50/LC50-Value	Species/test system	Source
Oral	> 2000 mg/kg	Calculation method	

Skin irritation
No data available.

Eye irritation
No data available.

Sensitation: No sensitizing effects known.
Repeated dose toxicity: No data available.
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:
No data available.
Further toxicological information: No data available.
Other information: No data available.

Components: Acetamide
Acute Toxicity

Exposition	LD50/LC50-Value	Species/test system	Source
Oral	7000 mg/kg	rat	Supplier MSDS

Skin irritation
No data available.

Eye irritation
No data available.

Sensitation: No sensitizing effects known.
Repeated dose toxicity: No data available.
Mutagenicity: No data available.
Carcinogenicity: No data available.
Toxic for reproduction: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity	Species/test system	Value
-	-	-

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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

No data available.

Components: Acetamide
Acute Toxicity

Toxicity	Species/test system	Value
Toxicity to fish		
LC50	Gambusia affinis (mosquito fish), 96 h	13.300 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: Not subject to Directive 96/82/EG.
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).

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TA Air

CAS-No.	Substance	Number	Class
-	-	-	-

Water hazard class: not hazardous (classificcation 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

R-phrases	Text
40	Limited evidence of a carcinogenic effect.

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

H-statements	Text
351	Suspected of causing cancer.

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 singulary 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.

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