

Material Safety Data Sheet

Acid Phosphatase Reagent, Component 1

According to Regulation (EC) No. 1907/2006
Version 2.1, Issue Date: 2016-07-13, Replaces version: XXXX-XX-XX



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

1.1 Product Identifier

Article number

TN 1519

Trade name

Acid Phosphatase Reagent, Component 1: Sodium Acetate Buffer

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

Intended use

For detection of Acid Phosphatase.

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)

Skin irritation, Category 2, H315

Eye irritation, Category 2, H319

2.2 Label elements

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

Hazard elements for labelling, contains	Acetic acid
Hazard piktogramme(s)	
Signal word	Warning
Hazard statements (H-statement)	H315: Causes skin irritation. H319: Causes serious eye irritation.
Precautionary Statements (P-statements)	P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Material Safety Data Sheet

Acid Phosphatase Reagent, Component 1



According to Regulation (EC) No. 1907/2006
Version 2.1, Issue Date: 2016-07-13, Replaces version: XXXX-XX-XX

	P332 + P313: If skin irritation occurs: Get medical advice/attention. P337 + P313: If eye irritation persists: Get medical advice/attention.
Additional labelling elements	None

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.
Acetic acid	64-19-7	200-580-7	01-2119475328-30-XXXX
Conc. (w/w %)	Classification acc. to CLP		Note
≥ 1 – ≤ 5 %	  Skin Corr. 1A, H314 Flam. Liq. 3, H226		[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 you feel unwell, seek medical advice immediately.

Skin contact: Wash off with plenty of water. Immediately remove any clothing soiled by the product.

Eye contact: Rinse thoroughly with plenty of water and consult an ophthalmologist.

Ingestion: Give water to drink immediately (two glasses at most). Consult a doctor.

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 (CO₂), foam, extinguishing powder.

Unsuitable extinguishing media: Water full jet

5.2 Special Hazards arising from the substance or mixture

Hazardous combustion products: Acetic acid (vapour), CO, CO₂.

Material Safety Data Sheet

Acid Phosphatase Reagent, Component 1



According to Regulation (EC) No. 1907/2006
Version 2.1, Issue Date: 2016-07-13, Replaces version: XXXX-XX-XX

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).
Suppress / Knock down gases/vapours/mists with a water spray jet. 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 vapours/aerosols. 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 with liquid-absorbing and neutralising reagent (e.g. Chemizorb®). Dispose of properly. Clean up affected area. Avoid formation of vapours / aerosols.

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

Do not breathe vapours / aerosols. Avoid formulation of vapours/aerosols Observe label precautions. 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: 2...8 °C. Store locked up.

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.

SECTION 8: Exposure controls / Personal protective equipment

8.1 Control parameters

Exposure limits

Substance	CAS-No.	Value	Limit value	Source
Acetic acid	64-19-7	AGW	25 mg/m ³	TRGS 900
Note	Peak limit: exceeding factor 2(l) Y - a risk of foetal damage is ceased to fear if AGW and BGW will be complied to.			
Acetic acid	64-19-7	TWA	25 mg/m ³	EU
Note	-			

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

Material Safety Data Sheet

Acid Phosphatase Reagent, Component 1

According to Regulation (EC) No. 1907/2006
Version 2.1, Issue Date: 2016-07-13, Replaces version: XXXX-XX-XX



DNEL- / DMEL-Value

Substance	Acetic acid
EC-No.	200-580-7
CAS-No.	64-19-7

Exposure Route	Species	Time of exposure / Effect	Value	Note
Inhalation	worker	Long term / local effects	25 mg/m ³	Supplier MSDS
Inhalation	worker	Short term / local effects	25 mg/m ³	Supplier MSDS

PNEC-Value

Substance	Acetic acid
EC-No.	200-580-7
CAS-No.	64-19-7

Environmental compartment	Species / Time of exposure / Effect	Value
Soil	-	0,478 mg/kg
STP	-	85 mg/l
Marine water	-	0,3058 mg/l
Marine water sediment	-	1,136 mg/kg
Fresh water	-	3,058 mg/l
Fresh water sediment	-	11,36 mg/kg

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 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	Butyl rubber, Natural rubber (reference substance: acetic acid)	
	Full contact:	Splash contact:
Glove material	Butyl rubber	Natural rubber
Glove thickness (mm)	≥ 0,7	≥ 0,6
Break through time (min)	≥ 480	≥ 30

Material Safety Data Sheet

Acid Phosphatase Reagent, Component 1

According to Regulation (EC) No. 1907/2006
Version 2.1, Issue Date: 2016-07-13, Replaces version: XXXX-XX-XX



	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 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	Liquid
Form	Not applicable
Particle size	Not applicable
Colour	Colourless
Odour	Not applicable
Odour threshold	Not applicable
pH	No data available
Melting point / freezing point	No data available
Initial boiling point and boiling range	appr. 100 °C
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
Solubility(ies)	Soluble (at 20 °C)
Partition coefficient, n-octanol/water	No data available
Auto-ignition temperature	No data available

Material Safety Data Sheet

Acid Phosphatase Reagent, Component 1



According to Regulation (EC) No. 1907/2006
Version 2.1, Issue Date: 2016-07-13, Replaces version: XXXX-XX-XX

Decomposition temperature	No data available
Thermal decomposition	No data available
Viscosity	No data available
Explosive properties	The product itself is not explosive.
Oxidizing 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 standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

See 10.1.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

Hazardous combustion products: Acetic acid (vapours), CO, CO₂.

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.

Sensitisation: No data available.

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.

Material Safety Data Sheet

Acid Phosphatase Reagent, Component 1



According to Regulation (EC) No. 1907/2006
Version 2.1, Issue Date: 2016-07-13, Replaces version: XXXX-XX-XX

11.2 Further Information

Symptoms related to the physical, chemical and toxicological characteristics: No data available.
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: Acetic acid

Acute Toxicity

Exposition	LD50/LC50-Value	Species/test system	Source
Oral	3310 mg/kg	Rat	RTECS
Inhalative	> 11,4 mg/L	Rat	IUCLID
Dermal	1060 mg/kg	Rabbit	IUCLID

Skin corrosion / irritation

Rabbit, Result: Causes burns (IUCLID). Causes severe burns.

Serious eye damage / Eye irritation

Causes severe eye damage. Risk of corneal opacity. Can cause blindness!

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.

Components: Acetic acid

Material Safety Data Sheet

Acid Phosphatase Reagent, Component 1

According to Regulation (EC) No. 1907/2006
Version 2.1, Issue Date: 2016-07-13, Replaces version: XXXX-XX-XX



Acute Toxicity

Toxicity	Species/ test system	Value
Toxicity to fish		
LC50	Lepomis macrochirus (Sunfish), OECD 203, 96h	75 mg/l
Toxicity to daphnia and other aquatic invertebrates		
EC50	Daphnia magna (Great water flea), OECD 202, 24 h	47 mg/l
Toxicity to algae		
IC5	Scenedesmus quadricauda (Green algae), OECD 201, 16 h	4000 mg/l
Toxicity to bacteria		
EC50	Photobacterium phosphoreum, 15 min Microtox-Test	11 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.

Material Safety Data Sheet

Acid Phosphatase Reagent, Component 1

According to Regulation (EC) No. 1907/2006
Version 2.1, Issue Date: 2016-07-13, Replaces version: XXXX-XX-XX



SECTION 16: Other Information

Further Information: None.

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

H-statement	Text
226	Flammable liquid and vapour.
314	Causes severe skin burns and eye damage.
315	Causes skin irritation.
319	Causes serious eye irritation.

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.