

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Europe

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

1.1 Product identifier

Product name Sodium Acetate; part of 'Silver Staining Kit,

Protein'

Catalogue Number 17-1150-01

EC number Not available.

CAS number 127-09-3

Product description Not available.

Product type Powder.

Other means of identification Acetic acid, sodium salt (1:1); Acetic acid, sodium salt; E 262; SODIUM ACETATE, ANHYDROUS

OR TRIHYDRATE; Sodium acetate anhydrous; Acetic acid sodium salt; Disodium sulfate; Acetic

acid salt (Na,K,Li,Ca,Al,Mg); Anhydrous sodium acetate; ACETATE, SODIUM

Chemical formula NaC₂H₃O₂

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

Identified uses

Analytical chemistry. Use in laboratories

Scientific research and development

1.3 Details of the supplier of the safety data sheet

Supplier Cytiva Hours of operation

Amersham Place Little Chalfont Buckinghamshire HP7 9NA United Kingdom

+44 0800 515 313

Person who prepared the MSDS: sds_author@cytiva.com

1.4 Emergency telephone number

08.30 - 17.00

Europe Cytiva Germany/Europe +49 (0)761 4543 0

Munzinger Str. 5 79111 Freiburg Germany

National advisory body/Poison Centre

Europe http://www.eapcct.org -> Go to: Links

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition Mono-constituent substance

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.



2.2 Label elements

Hazard pictograms

Signal word No signal word.

Hazard statements No known significant effects or critical hazards.

Precautionary statements

Prevention Not applicable. Response Not applicable. Storage Not applicable. Disposal Not applicable. Supplemental label elements Not applicable.

Annex XVII - Restrictions on the Not applicable.

manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Special packaging requirements

Containers to be fitted with child-resistant fastenings

Not applicable.

Tactile warning of danger Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, **Annex XIII**

PBT Ρ В Τ vPvB vΡ vΒ Not applicable N/A N/A N/A Not applicable N/A N/A (Inorganic)

(Inorganic)

Other hazards which do not

result in classification

None known.

SECTION 3: Composition/information on ingredients

3.1 Substances Mono-constituent substance

			Classification	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
sodium acetate	CAS: 127-09-3	100	Not classified.	[A]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

[A] Constituent

[B] Impurity

[C] Stabilising additive

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation

occurs

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms appear. Skin contact Wash with soap and water. Get medical attention if symptoms appear.

Ingestion Do not ingest. Get medical attention if symptoms appear.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact Adverse symptoms may include the following:

> irritation redness

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Inhalation Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact No specific data. Ingestion No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large quantities have

been ingested or inhaled.

Specific treatments No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or No specific fire or explosion hazard.

Hazardous combustion

Decomposition products may include the following materials: carbon dioxide

products

carbon monoxide metal oxide/oxides

5.3 Advice for firefighters

Special precautions for fire-

fiahters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

No action shall be taken involving any personal risk or without suitable training.

Special protective equipment

for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters

(including helmets, protective boots and gloves) conforming to European standard EN 469 will

provide a basic level of protection for chemical incidents

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate For non-emergency personnel

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or

walk through spilt material. Avoid breathing dust. Put on appropriate personal protective

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 For emergency responders

on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental

precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled

waste container. Dispose of via a licensed waste disposal contractor.

Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, Large spill

water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal.

Dispose of via a licensed waste disposal contractor.

6.4 Reference to other

sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust.

hygiene

Advice on general occupational Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also

Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations Analytical chemistry. Laboratory chemicals. Scientific research and development.

Industrial sector specific

solutions

Not available.

SECTION 8: Exposure controls/personal protection

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario (s).

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures

Product does not contain relevant quantities of materials with exposure values that have to be monitored.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
sodium acetate	DNEL	Long term Oral	6 mg/kg bw/ day	General population	Systemic
	DNEL	Long term Dermal	6 mg/kg bw/ day	General population	Systemic
	DNEL	Long term Dermal	12 mg/kg bw/ day	Workers	Systemic
	DNEL	Short term Oral	,	General population	Systemic
	DNEL	Short term Dermal	,	General population	Systemic
	DNEL	Short term Dermal	72 mg/kg bw/ day	Workers	Systemic
	DNEL	Long term Inhalation	521.73 mg/ m ³	General population	Systemic
	DNEL	Long term Inhalation		Workers	Systemic
	DNEL	Short term Inhalation	3103.45 mg/ m ³	General population	Systemic
	DNEL	Short term Inhalation	1	Workers	Systemic

PNECs

No PECs available.

8.2 Exposure controls

Appropriate engineering

controls

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Other skin protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust

concentrations to be produced, use dust goggles.

Skin protection

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn at all

times when handling chemical products if a risk assessment indicates this is necessary.

Body protectionPersonal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Appropriate footwear and any additional skin protection measures should be selected based on the

task being performed and the risks involved and should be approved by a specialist before

handling this product.

Respiratory protection A respirator is not needed under normal and intended conditions of product use.



Environmental exposure

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state Solid. [Crystalline powder. Hygroscopic.]

ColourWhite.OdourOdourless.Odour thresholdNot available.pHNot available.

Melting point/freezing point Initial boiling point and boiling

range

Not available.

324°C

Flash point Closed cup: >250°C [Product does not sustain combustion.]

Evaporation rate Not available.

Flammability (solid, gas) Non-flammable but will burn on prolonged exposure to flame or high temperature.

Upper/lower flammability or

explosive limits

Not available.

Vapour pressure 0 kPa [room temperature]

Vapour density Not available.

Relative density Not available.

Solubility(ies) Easily soluble in the following materials: cold water and hot water.

Insoluble in the following materials: diethyl ether.

Partition coefficient: n-octanol/

water

-3.72

Auto-ignition temperature 607°C

Decomposition temperature >400°C

Viscosity Not available.

Explosive propertiesNot considered to be a product presenting a risk of explosion.

Oxidising properties Not available.

9.2 Other information

Burning timeNot available.Burning rateNot available.Solubility in water465 g/lMolecular weight82.04

SECTION 10: Stability and reactivity

10.1 Reactivity No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability The product is stable.

10.3 Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid No specific data.10.5 Incompatible materials No specific data.

10.6 Hazardous

Under normal conditions of storage and use, hazardous decomposition products should not be

decomposition products produced

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
sodium acetate	LD50 Oral	Rat	3530 mg/kg	-

Conclusion/Summary Not available.

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/ I)
sodium acetate	3530	N/A	N/A	N/A	N/A

Irritation/Corrosion

Conclusion/Summary Not available.

Sensitisation

Conclusion/Summary Not available.

Mutagenicity

Conclusion/Summary Not available.

Carcinogenicity

Conclusion/Summary Not available.

Reproductive toxicity

Conclusion/Summary Not available.

Teratogenicity

Conclusion/Summary Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of

Routes of entry anticipated: Oral, Dermal, Inhalation.

exposure

Potential acute health effects

Inhalation Exposure to airborne concentrations above statutory or recommended exposure limits may cause

irritation of the nose, throat and lungs.

IngestionNo known significant effects or critical hazards.Skin contactNo known significant effects or critical hazards.

Eye contact Exposure to airborne concentrations above statutory or recommended exposure limits may cause

irritation of the eyes.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation Adverse symptoms may include the following:

respiratory tract irritation coughing

IngestionNo specific data.Skin contactNo specific data.

Eye contact Adverse symptoms may include the following:

irritation redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Long term exposure

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Potential immediate effects Not available.

Potential delayed effects Not available.

Potential chronic health effects

Not available.

Conclusion/Summary Not available.

General Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

Other information Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
sodium acetate	Acute LC50 >1000 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours

Conclusion/Summary Not available.

12.2 Persistence and degradability

Conclusion/Summary Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
sodium acetate	-	99%; 28 day(s)	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
sodium acetate	-3.72	<10	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc) Not available.

Mobility Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient namePBTPBTvPvBvPvBsodium acetateNotN/AN/AN/AN/ANot applicableN/AN/A

applicable (Inorganic)

(Inorganic)

12.6 Other adverse effects No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal The generation of waste should be avoided or minimised wherever possible. Disposal of this

product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the

requirements of all authorities with jurisdiction.

Hazardous waste Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as

defined by EU Directive 2008/98/EC.

Packaging

Methods of disposal The generation of waste should be avoided or minimised wherever possible. Waste packaging

should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6 Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the Not applicable manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air Not listed

Industrial emissions No

(integrated pollution prevention and control) - Water

Not listed

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

EuropeNot determined.United StatesNot determined.Canada inventoryNot determined.ChinaNot determined.

Japan inventory (ENCS): Not determined.

Japan inventory (ISHL): This material is listed or exempted.

15.2 Chemical safety

assessment

Not available.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H

statements

Not applicable.

Full text of classifications [CLP/ Not applicable.

GHS]

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