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

1.1 Product identifier

**Trade name** Sodium acetate, anhydrous

**Stock number:** A13184

**CAS Number:** 127-09-3

**EC number:** 204-823-8

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

**Identified use:** SU24 Scientific research and development

1.3 Details of the supplier of the safety data sheet

**Manufacturer/Supplier:** Thermo Fisher (Kandel) GmbH

Zeppelinstr. 7b
76185 Karlsruhe / Germany

Tel: +49 (0) 721 84007 280
Fax: +49 (0) 721 84007 300
Email: tech@alfa.com
www.alfa.com

**Informing department:** Product safety Tel + +049 (0) 7275 988687-0

1.4 Emergency telephone number:

Carechenf 24: +44 (0) 1235 239 670 (Multi-language emergency number)

Poison Information Center Mainz
www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240

**SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

The substance is not classified as hazardous to health or the environment according to the CLP regulation.

**Other hazards that do not result in classification** No information known.

2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008** Not applicable

**Hazard pictograms** Not applicable

**Signal word** Not applicable

**Hazard statements** Not applicable

2.3 Other hazards

**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients**

3.1 Substances

**CAS# Designation:** 127-09-3 Sodium acetate

**Concentration:** ≤100%

**Identification number(s):**

**EC number:** 204-823-8

**SECTION 4: First aid measures**

4.1 Description of first aid measures

**After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice.

**After skin contact**

Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.

**After eye contact**

Rinse opened eye for several minutes under running water. Then consult doctor.

**After swallowing**

Seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

**SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing agents CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

**5.2 Special hazards arising from the substance or mixture**

If this product is involved in a fire, the following can be released:

- Carbon monoxide and carbon dioxide
- Sodium oxide

**5.3 Advice for firefighters**

Protective equipment:

- Wear self-contained breathing apparatus.
- Wear full protective suit.

**SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective equipment. Keep unprotected persons away.
- Ensure adequate ventilation.

**6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.

**6.3 Methods and material for containment and cleaning up:** Collect mechanically.

**Prevention of secondary hazards:** No special measures required.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

**SECTION 7: Handling and storage**

7.1 Precautions for safe handling

- Handle under dry protective gas.
- Keep containers tightly sealed.
Trade name Sodium acetate, anhydrous

Store in cool, dry place in tightly closed containers.

Information about protection against explosions and fires: No information known.

7.2 Conditions for safe storage, including any incompatibilities

Storage
Requirements to be met by storerooms and containers: No special requirements.

Further information about storage conditions:
Store away from water.
Store away from oxidising agents.
This product is hygroscopic.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
Protect from humidity and keep away from water.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems:
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

8.1 Control parameters
Components with critical values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls

General protective and hygienic measures
The usual precautionary measures should be adhered to in handling the chemicals.
Keep away from foodstuffs, beverages and food.
Immediately remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Maintain an ergonomically appropriate working environment.

Breathing equipment:
Use breathable protection with high concentrations.
Use breathable protection in case of insufficient ventilation.

Recommended filter device for short term use:
Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.

Protection of hands:
Check protective gloves prior to each use for their proper condition.
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.

9.1 Information on basic physical and chemical properties

General Information
Appearance:
Form: Crystalline powder
Odour:
Odour threshold: Not determined.

pH-value (50 g/l) at 20 °C: 7.5-9

Change in condition
Melting point/freezing point: Not determined.
Initial boiling point and boiling range: Not determined.
Sublimation temperature / start: Not determined.

Flash point: >110 °C
Inflammability (solid, gaseous): Not determined.
Ignition temperature: Not determined.
Decomposition temperature: Not determined.
Self-inflammability: Not determined.

Explosive properties:
Critical values for explosion: Not determined.
Lower: Not determined.
Upper: Not determined.

Steam pressure: Not applicable.
Density at 20 °C: 1,528 g/cm³

Settled apparent density at 20 °C: 520 kg/m³
Relative density: Not determined.
Vapour density: Not applicable.
Evaporation rate: Not applicable.

Solubility in/ Miscibility with
Water at 20 °C: 1,190 g/l Soluble

Partition coefficient: n-octanol/water: Not determined.
Viscosity:
dynamic: Not applicable.
kinematic: Not applicable.

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No information known.

10.2 Chemical stability Stable under recommended storage conditions.
Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions Reacts with strong oxidising agents

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials:
Oxidising agents
Water/moisture
**Trade name** Sodium acetate, anhydrous

10.6. **Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Sodium oxide

**SECTION 11: Toxicological information**

11.1 **Information on toxicological effects**

11.1.1 **Acute toxicity** The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.

LD/LC50 values that are relevant for classification: No data

Skin irritation or corrosion: May cause irritation
Eye irritation or corrosion: May cause irritation
Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: No effects known.

Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

Reproductive toxicity: No effects known.

Specific target organ system toxicity - repeated exposure: No effects known.

Specific target organ system toxicity - single exposure: No effects known.

Aspiration hazard: No effects known.

Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

**SECTION 12: Ecological information**

12.1 **Aquatic toxicity:** No further relevant information available.

12.2 **Persistence and degradability:** No further relevant information available.

12.4 **Mobility in soil:** No further relevant information available.

Additional ecological information:

General notes: Water hazard class 1 (Assessment by list): slightly hazardous for water.
Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.
Avoid transfer into the environment.

12.5 **Results of PBT and vPvB assessment**
PBT: Not applicable.
vPvB: Not applicable.

12.6 **Other adverse effects:** No further relevant information available.

**SECTION 13: Disposal considerations**

13.1 **Waste treatment methods**

Recommendation: Hand over to disposers of hazardous waste.
Must be specially treated under adherence to official regulations.
Consult state, local or national regulations for proper disposal.

Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.
Recommended cleaning agent: Water, if necessary with cleaning agent.

**SECTION 14: Transport information**

UN-Number: Not applicable
ADR, ADN, IMDG, IATA: Not applicable

14.2 **UN proper shipping name**
ADR, ADN, IMDG, IATA: Not applicable

14.3 **Transport hazard class(es)**
ADR, ADN, IMDG, IATA: Not applicable

Class: Not applicable

Packaging group: Not applicable

14.5 **Environmental hazards:** Not applicable

14.6 **Special precautions for user:** Not applicable

14.7 **Transport in bulk according to Annex II of Marpol and the IBC Code:** Not applicable

UN "Model Regulation": Not applicable

**SECTION 15: Regulatory information**

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

Australian Inventory of Chemical Substances: Substance is listed.
Standard for the Uniform Scheduling of Medicines and Poisons: Substance is not listed.

Directive 2012/18/EU: Named dangerous substances - ANNEX I Substance is not listed.
National regulations:
Information about limitation of use: For use only by technically qualified individuals.
Classification according to VbF: Not applicable

Water hazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water.
Other regulations, limitations and prohibitive regulations:

ELINCS (European List of Notified Chemical Substances) Substance is not listed.

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006: Substance is not listed.
Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.

15.2 **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department
Abbreviations and acronyms:
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- LAS: Chemical Abstracts Service Division of the American Chemical Society
- VfE: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)
- LD50: Lethal dose, 50 percent
- LC50: Lethal concentration, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety and Health Administration (USA)
- TLV: Threshold Limit Value
- REL: Permissible Exposure Limit
- BEI: Biological Exposure Limit