

# Sodium acetate

## Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 08/08/2017

Doc No: SDS-969.176/0



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

#### 1.1. Product identifier

|                 |  |
|-----------------|--|
| Product form    | : Substance  |
| Substance name  | : Sodium acetate   |
| EC-No.          | : 204-823-8  |
| CAS-No.         | : 127-09-3   |
| Type of product | : Pure substance, Hygroscopic substance. Preventive measures apply to the substance in dry state only  |
| Formula         | : C <sub>2</sub> H <sub>3</sub> NaO <sub>2</sub>   |
| Synonyms        | : acetate de sodium, anhydre / acetic acid sodium salt / acetic acid sodium salt, anhydrous / acetic acid, sodium salt / anhydrous sodium acetate / FEMA number 3024 / sodium acetate, anhydrous |

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

##### 1.2.1. Relevant identified uses

|                              |  |
|------------------------------|--|
| Use of the substance/mixture | : Dyestuff/pigment: intermediate product<br>Laboratory chemical<br>Food industry: Preserving agent |
|------------------------------|--|

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

ISOLAB GmbH  
Bahnhofstrasse 10, D-97877  
Wertheim - Germany  
T +49 93 42 912 355 - F +49 93 42 912 357  
[prodsafe@isolab.de](mailto:prodsafe@isolab.de)

#### 1.4. Emergency telephone number

| Country | Organisation/Company  | Address  | Emergency number | Comment   |
|---------|---|--|------------------|---|
| Turkey  | Ulusal Zehir Merkezi (UZEM)<br>Refik Saydam Hifzissihha Merkezi<br>Başkanlığı | Cemal Gürsel Cd. No: 18 Sıhhiye<br>Çankaya<br>06590 Ankara | 114              | Information is provided to public and medical personnel on poisoning incidents via 114. |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Not classified

#### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

No labelling applicable

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

| Name           | Product identifier                       | %     |
|----------------|--|-------|
| Sodium acetate | (CAS-No.) 127-09-3<br>(EC-No.) 204-823-8 | ≈ 100 |

Full text of H-statements: see section 16

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### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : If you feel unwell, seek medical advice.  |
| First-aid measures after inhalation   | : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.   |
| First-aid measures after skin contact | : Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.   |
| First-aid measures after eye contact  | : Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.   |
| First-aid measures after ingestion    | : Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Victim is fully conscious: immediately induce vomiting. Call Poison Information Centre ( <a href="http://www.big.be/antigif.htm">www.big.be/antigif.htm</a> ). Consult a doctor/medical service if you feel unwell. |

### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects after inhalation   | : EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Slight irritation.   |
| Symptoms/effects after skin contact | : Slight irritation.  |
| Symptoms/effects after eye contact  | : Slight irritation.  |
| Symptoms/effects after ingestion    | : AFTER ABSORPTION OF HIGH QUANTITIES: Nausea. Vomiting. Abdominal pain.  |
| Chronic symptoms                    | : ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Skin rash/inflammation. Runny nose. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. |

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : Water spray. Polyvalent foam. Alcohol-resistant foam. ABC powder. Carbon dioxide. |
| Unsuitable extinguishing media | : Container may slop over if solid jet (water/foam) is applied.                     |

### 5.2. Special hazards arising from the substance or mixture

|                  |  |
|------------------|--|
| Fire hazard      | : DIRECT FIRE HAZARD. Not easily combustible. In finely divided state: increased fire hazard. INDIRECT FIRE HAZARD. Heating increases the fire hazard. Reactions involving a fire hazard: see "Reactivity Hazard". |
| Explosion hazard | : DIRECT EXPLOSION HAZARD. Fine dust is explosive with air. INDIRECT EXPLOSION HAZARD. Dust cloud can be ignited by a spark.   |

### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Precautionary measures fire    | : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows. |
| Firefighting instructions      | : Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray.  |
| Protection during firefighting | : Heat/fire exposure: compressed air/oxygen apparatus.   |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

|                                  |   |
|----------------------------------|---|
| Protective equipment             | : Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Reactivity hazard: compressed air/oxygen apparatus. Reactivity hazard: gas-tight suit. See "Material-Handling" to select protective clothing.                                    |
| Emergency procedures             | : Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.  |
| Measures in case of dust release | : In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows. Dust production: stop engines and no smoking. In case of dust production: no naked flames or sparks. Dust: spark-/explosionproof appliances/lighting equipment. |

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

No additional information available

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### 6.3. Methods and material for containment and cleaning up

- For containment : Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray. Provide equipment/receptacles with earthing. Powdered form: no compressed air for pumping over spills. If reacting: dilute toxic gas/vapour with water spray. Take account of toxic/corrosive precipitation water.
- Methods for cleaning up : Stop dust cloud by humidifying. Scoop solid spill into closing containers. Powdered: do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Powdered form: no compressed air for pumping over. Avoid raising dust. Take precautions against electrostatic charges. Keep away from naked flames/heat. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

### 7.2. Conditions for safe storage, including any incompatibilities

- Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.
- Information on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. water/moisture.
- Storage area : Store in a dry area. Keep container in a well-ventilated place. Provide the tank with earthing. Meet the legal requirements.
- Special rules on packaging : SPECIAL REQUIREMENTS: closing. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
- Packaging materials : SUITABLE MATERIAL: No data available. MATERIAL TO AVOID: No data available.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Sodium acetate (127-09-3) |                                  |   |
|---------------------------|----------------------------------|---|
| Belgium                   | Limit value (mg/m <sup>3</sup> ) | 3 mg/m <sup>3</sup> (Particules non classifiées autrement (fraction alvéolaire); Belgium; Time-weighted average exposure limit 8 h; Particules non classifiées autrement (fraction inhalable); 10 mg/m <sup>3</sup> ; Belgium; Time-weighted average exposure limit 8 h)  |
| France                    | VME (mg/m <sup>3</sup> )         | 10 mg/m <sup>3</sup> (Poussières réputées sans effet spécifique; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante; Poussières réputées sans effet spécifique, fraction; 5 mg/m <sup>3</sup> ; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante) |
| United Kingdom            | WEL TWA (mg/m <sup>3</sup> )     | 4 mg/m <sup>3</sup> Inhalable dust; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005); Respirable dust; 10 mg/m <sup>3</sup> ; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)  |
| Russian Federation        | Local name                       | Ацетат натрия   |
| Russian Federation        | OEL Ceiling (mg/m <sup>3</sup> ) | 10 mg/m <sup>3</sup>  |
| Russian Federation        | Remark (RU)                      | 4 класс опасности - умеренно опасное; а (аэрозоль)  |

### 8.2. Exposure controls

#### Materials for protective clothing:

GIVE GOOD RESISTANCE: butyl rubber. PVC

#### Hand protection:

Gloves

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### Eye protection:

Safety glasses. In case of dust production: protective goggles

### Skin and body protection:

Protective clothing

### Respiratory protection:

Dust production: dust mask with filter type P1

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |   |
|--|---|
| Physical state                             | : Solid   |
| Appearance                                 | : Crystalline solid. Powder. Grains. Needles.                   |
| Molecular mass                             | : 82.03 g/mol   |
| Colour                                     | : Colourless to white.  |
| Odour                                      | : Odourless.  |
| Odour threshold                            | : No data available   |
| pH   | : 7,5 - 9,2 (30 g/l; 20°C)                                      |
| pH solution                                | : 3 %   |
| Relative evaporation rate (butylacetate=1) | : No data available   |
| Melting point                              | : 324 °C  |
| Freezing point                             | : No data available   |
| Boiling point                              | : > 400 °C (decomposition)                                      |
| Flash point                                | : > 250 °C  |
| Auto-ignition temperature                  | : 607 °C  |
| Decomposition temperature                  | : > 400 °C  |
| Flammability (solid, gas)                  | : No data available   |
| Vapour pressure                            | : No data available   |
| Relative vapour density at 20 °C           | : No data available   |
| Relative density                           | : 1.5   |
| Density                                    | : 1520 kg/m <sup>3</sup>  |
| Solubility                                 | : Soluble in water. Soluble in ether.<br>Water : 365 g/l (20°C) |
| Log Pow                                    | : No data available   |
| Viscosity, kinematic                       | : No data available   |
| Viscosity, dynamic                         | : No data available   |
| Explosive properties                       | : No data available   |
| Oxidising properties                       | : No data available   |
| Explosive limits                           | : No data available   |

### 9.2. Other information

|                         |  |
|-------------------------|--|
| Minimum ignition energy | : 35 mJ                                      |
| VOC content             | : 0 %  |
| Other properties        | : Hygroscopic. Substance has basic reaction. |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Decomposes on exposure to temperature rise: release of corrosive gases/vapours (acetic acid vapours). Upon combustion: CO and CO<sub>2</sub> are formed. Reacts violently with (strong) oxidizers. Reacts violently with (some) acids: release of corrosive gases/vapours (acetic acid vapours).

### 10.2. Chemical stability

Hygroscopic.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

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### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| Sodium acetate (127-09-3) |                  |
|---------------------------|------------------|
| LD50 oral rat             | 3530 mg/kg (Rat) |

Skin corrosion/irritation : Not classified  
pH: 8.9 (0.8 %)

Serious eye damage/irritation : Not classified  
pH: 8.9 (0.8 %)

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Classification concerning the environment: not applicable.

Ecology - air : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). TA-Luft Klasse 5.2.1.

Ecology - water : Mild water pollutant (surface water). Maximum concentration in drinking water: 200 mg/l (sodium) (Directive 98/83/EC). Slightly harmful to fishes (LC50(96h) >100 mg/l). Not harmful to invertebrates (Daphnia) (EC50 (48h) > 1000 mg/l). Not harmful to algae (EC50 >1000 mg/l). Not harmful to bacteria (EC50 >1000 mg/l).

| Sodium acetate (127-09-3) |  |
|---------------------------|--|
| LC50 fish 1               | > 100 mg/l (LC50; 96 h)  |
| EC50 Daphnia 1            | > 1000 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna) |
| Threshold limit algae 1   | 3281 mg/l (EC50; 60 h)   |

### 12.2. Persistence and degradability

| Sodium acetate (127-09-3)     |                                     |
|-------------------------------|-------------------------------------|
| Persistence and degradability | Readily biodegradable in water.     |
| Chemical oxygen demand (COD)  | 0.675 g O <sub>2</sub> /g substance |
| BOD (% of ThOD)               | 0.53                                |

### 12.3. Bioaccumulative potential

| Sodium acetate (127-09-3)     |                                    |
|-------------------------------|------------------------------------|
| BCF fish 1                    | < 10 (BCF; 72 h)                   |
| BCF other aquatic organisms 1 | 16000 (BCF; 24 h)                  |
| BCF other aquatic organisms 2 | 29100 (BCF; 120 h)                 |
| Bioaccumulative potential     | No bioaccumulation data available. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Remove waste in accordance with local and/or national regulations. Dissolve or mix with a combustible solvent. Specific preliminary treatment. Remove to an authorized dump. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery.

Additional information : LWCA (the Netherlands): KGA category 03. Can be considered as non hazardous waste according to Directive 2008/98/EC.

European List of Waste (LoW) code : 16 05 09 - discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR                                     | IMDG           | IATA           | ADN            | RID            |
|---|----------------|----------------|----------------|----------------|
| <b>14.1. UN number</b>                  |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.2. UN proper shipping name</b>    |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.3. Transport hazard class(es)</b> |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.4. Packing group</b>              |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.5. Environmental hazards</b>      |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available  |                |                |                |                |

#### 14.6. Special precautions for user

##### - Overland transport

Not applicable

##### - Transport by sea

Not applicable

##### - Air transport

Not applicable

##### - Inland waterway transport

Not applicable

##### - Rail transport

Not applicable

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

Not applicable

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Sodium acetate is not on the REACH Candidate List

Sodium acetate is not on the REACH Annex XIV List

VOC content : 0 %

##### 15.1.2. National regulations

###### Germany

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|  |  |
|--|--|
| VwVwS Annex reference  | : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 1 or 2; ID No. 367)                       |
| WGK remark   | : Classification water polluting in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 2) |
| 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV | : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)   |

### Netherlands

|   |                               |
|---|-------------------------------|
| SZW-lijst van kankerverwekkende stoffen   | : The substance is not listed |
| SZW-lijst van mutagene stoffen  | : The substance is not listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding   | : The substance is not listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid | : The substance is not listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling   | : The substance is not listed |

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Abbreviations and acronyms:

|       |   |
|-------|---|
| ADN   | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways   |
| ADR   | European Agreement concerning the International Carriage of Dangerous Goods by Road               |
| ATE   | Acute Toxicity Estimate   |
| BCF   | Bioconcentration factor   |
| CLP   | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |
| EC50  | Median effective concentration  |
| IARC  | International Agency for Research on Cancer   |
| IATA  | International Air Transport Association   |
| IMDG  | International Maritime Dangerous Goods  |
| LC50  | Median lethal concentration   |
| LD50  | Median lethal dose  |
| PBT   | Persistent Bioaccumulative Toxic  |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID   | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |
| vPvB  | Very Persistent and Very Bioaccumulative  |
| SDS   | Safety Data Sheet   |

|              |   |
|--------------|---|
| Data sources | : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. |
|--------------|---|

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*