

Safety data sheet

according to Regulation (EC) No. 1907/2006



Printing date 25.10.2013

Version number 2

Revision: 25.10.2013

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

1.1 Product identifier

Trade name: SODIUM ACETATE TRIHYDRATE ≥ 99%, Ph.Eur., USP**Article number:** 3856**CAS Number:**

6131-90-4

EC number:

204-823-8

Registration number

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

No further relevant information available.

Application of the substance / the mixture

Laboratory chemical

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Carl Roth GmbH + Co. KG

Schoemperlenstraße 3-5

76185 Karlsruhe

Germany

Telefon: +49/(0)721 5606-0

Telefax: +49/(0)721 5606-149

E-Mail: sicherheit@carlroth.de

Further information obtainable from: Department Health, Safety and Environment

1.4 Emergency telephone number:

Poison Centre Munich

Telefon +49/(0)89 19240

2 Hazards identification

2.1 Classification of the substance or mixture

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

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Additional information:

-

2.3 Other hazards

All chemicals are potentially dangerous. They are therefore only be handled by specially trained personnel with the necessary care.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

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3 Composition/information on ingredients

3.1 Chemical characterization: Substances

CAS No. Description

6131-90-4 sodium acetate trihydrate

Identification number(s)**EC number:** 204-823-8**Formula:** $C_2H_3NaO_2 \cdot 3H_2O$ **Molar mass [g/mol]:** 136,08

4 First aid measures



4.1 Description of first aid measures

General information: Remove any clothing soiled by the product.**After inhalation:**

Supply fresh air; if there is any trouble seek medical help.

After skin contact:

Rinse with water

If there is any trouble seek medical help.

After eye contact:

To be sure rinse opened eye under running water. If there is any trouble seek medical help.

After swallowing:

Rinse out mouth and then drink water.

If there is any trouble seek medical help.

4.2 Most important symptoms and effects, both acute and delayed

Irritations

Gastric or intestinal disorders

Nausea

Vomiting

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, powder, foam or water spray.**For safety reasons unsuitable extinguishing agents:**

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Forms explosive mixtures with air on intense heating.

In the event of fire development of hazardous combustion gases or vapours possible.

In case of fire, the following can be released:

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Carbon monoxide and carbon dioxide

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5.3 Advice for firefighters**Protective equipment:**

Wear self-contained respiratory protective device.

6 Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures** Do not breathe dust.**6.2 Environmental precautions**

Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up

Pick up mechanically.

Dispose of the material collected according to regulations.

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 disposal information.

7 Handling and storage**7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**

No special requirements.

Information about storage in one common storage facility:

Store away from foodstuffs.

Further information about storage conditions:

Keep container tightly sealed.

Store in dry conditions.

Recommended storage temperature: 15 - 25 °C**7.3 Specific end use(s)**

No further relevant information available.

8 Exposure controls/personal protection**Additional information about design of technical facilities:**

No further data; see item 7.

8.1 Control parameters**Ingredients with limit values that require monitoring at the workplace:** Not required.**Additional information:**

The lists valid during the making were used as basis.

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8.2 Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.
Wash hands before breaks and at the end of work.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Respiratory protection:

When dusts are generated: protective device filter P1.

Protection of hands:

Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile, thickness: \geq 0.11 mm

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.

Penetration time of glove material

Value for the permeation: Level \geq 6

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles

Body protection:

Protective work clothing

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties**General Information****Appearance:**

Form:	Crystalline
Colour:	Colourless

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Odour:	like acetic acid
Odour threshold:	Not determined.
pH-value (50 g/l) at 20 °C:	7.5-9.2
Change in condition	
Melting point/Melting range:	58 °C
Boiling point/Boiling range:	No information available.
Flash point:	> 250 °C (c.c. anhy. Sub.)
Flammability (solid, gaseous):	No information available
Ignition temperature:	607 °C
Decomposition temperature:	No information available
Self-igniting:	No information available
Danger of explosion:	No information available
Explosion limits:	
Lower:	No information available.
Upper:	No information available.
Oxidizing properties:	No information available.
Vapour pressure:	No information available
Density at 20 °C:	1.42 g/cm ³
Bulk density:	ca. 900 kg/m ³
Vapour density	No information available
Evaporation rate	No information available
Solubility in / Miscibility with water at 20 °C:	613 g/l
Partition coefficient (n-octanol/water):	-4.22 log POW (anhy. Sub.)
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
9.2 Other information	No further relevant information available.

10 Stability and reactivity

10.1 Reactivity See section 10.3

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Contact with the below mentioned substances may cause violent reactions or an explosion.

nitrates

fluorine

10.4 Conditions to avoid

Strong Heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.5 Incompatible materials:

No information available.

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10.6 Hazardous decomposition products:

In case of fire: see item 5.

Additional information: Hygroscopic**11 Toxicological information****11.1 Information on toxicological effects****Acute toxicity:****LD/LC50 values relevant for classification:**

Oral	LD50	3530 mg/kg (rat) (GESTIS) anhydrous substance
Dermal	LD50	> 10000 mg/kg (rabbit) (GESTIS) anhydrous substance

Specific symptoms in biological assay:

Skin and eye irritation test (rabbit): slight irritations.

Primary irritant effect:**on the skin:**

Slight irritations.

on the eye:

Slight irritations

after inhalation:

Intensive contact with dusts may lead to irritations of the eyes and the respiratory tract.

Sensitization:

No sensitizing effects known.

CMR effects:**Germ cell mutagenicity:**

No known significant effects or critical hazards.

Carcinogenicity:

No known significant effects or critical hazards.

Reproductive toxicity:

No known significant effects or critical hazards.

Aspiration hazard:

No aspiration toxicity classification.

Specific target organ toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Additional toxicological information:**After swallowing large quantities:**

gastrointestinal complaints

Nausea

Vomiting

Further information:

The product should be handled with the care usual when dealing with chemicals.

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12 Ecological information

12.1 Toxicity

Aquatic toxicity:

Fish toxicity:

LC50	5000 mg/l 24h (Lepomis macrochirus) (Lit.) anhydrous substance
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Daphnia toxicity:

EC50	> 1000 mg/l/48 h (Daphnia magna) (IUCLID) anhydrous substance
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12.2 Persistence and degradability

Biodegradation: 99% / 28d OECD-301A
Easily biodegradable

12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected (log POW ≤4).

12.4 Mobility in soil

No further relevant information available.

Ecotoxicological effects:

Remark:

Do not allow to enter waters, waste water, or soil!

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation

The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.

Uncleaned packaging:

Recommendation:

Disposal according to official regulations.

14 Transport information

14.1 UN-Number

ADR, ADN, IMDG, IATA	Void
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14.2 UN proper shipping name

ADR, ADN, IMDG, IATA	Void
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14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA Class	Void
14.4 Packing group	
ADR, IMDG, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
	Not applicable.
Transport/Additional information:	
ADR Remarks:	
	Not subject to transport regulations.
UN "Model Regulation":	-

15 Regulatory information

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

National regulations:

Breakdown regulations:

-

Waterhazard class:

Water hazard class 1 (Assessment by list): slightly hazardous for water.

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15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS: Department: Health, Safety and Environment

Contact: Frau Weckemann

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

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 Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

LD50*: Lethal Dose, 50 percent (Not relevant for classification)

LD50*: Lethal Concentration, 50 percent (Not relevant for classification)

*** Data compared to the previous version altered.**