



SAFETY DATA SHEET

Sodium diacetate

Ref. 40083/2.0/REG_EU/EN

Revision Date: 11.06.2013

Previous date: 19.03.2013

Print Date:11.06.2013

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product information

Commercial Product Name

Sodium diacetate

Registration number:

01-2119560593-35

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

Use of the Substance/Mixture

Food additive

Feed additive.

Pharmaceutical

Recommended restrictions on use

Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Niacet b.v.

P.O. Box 60

4000 AB Tiel

NETHERLANDS

Telephone +31 344-615224, Telefax. +31 344-611475

Tiel@Niacet.nl

Niacet Corporation

400 47th Street

Niagara Falls, NY

14304 U.S.A.

Telephone +1 716-285-1474 Telefax +1 716-285-1497

niacetcsr@niacet.com

1.4 Emergency telephone number

For Niacet b.v.Tiel, The Netherlands products: +31 344-615224

For Niacet Corporation, Niagara Falls, U.S.A. products: (800) 424 9300, (202) 483-7616

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008(CLP)

Serious eye damage/eye irritation; Category 1; Causes serious eye damage.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Irritant; Risk of serious damage to eyes.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



Hazard pictograms

:

Signal word

: Danger

Hazard statements

: H318 Causes serious eye damage.

Precautionary statements

: P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Prevention:

P280 Wear protective gloves/ protective clothing/ eye protection.

Response:

P310 Immediately call a POISON CENTER or doctor/ physician.

Hazardous components which must be listed on the label:

126-96-5

Sodium hydrogen di(acetate)

Further information

: The product is classified and labelled in accordance with EC directives.

2.3 Other hazards

Advice; This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).



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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	CAS-No. EINECS-No. / ELINCS No.	Concentration [%]
Sodium hydrogen di(acetate)	126-96-5 204-814-9	<= 100

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Wash hands with water as a precaution. Ensure that eyewash stations and safety showers are close to the workstation location. Get medical attention immediately if symptoms occur.

Inhalation

Remove to fresh air. Keep patient warm and at rest. In case of feeling sick consult a physician.

Skin contact

Rinse with water. Wash off immediately with plenty of water removing all contaminated clothes and shoes. If symptoms persist, call a physician.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. If symptoms persist, call a physician.

Ingestion

Rinse mouth with water. Do NOT induce vomiting. If vomiting occurs naturally, lean victim forward to reduce risk of aspiration. Rinse mouth. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Redness

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treatment : If eye irritation persists: Get medical advice/ attention.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Heating can release hazardous gases.



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5.3 Special protective actions for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. For personal protection see section 8. Wear respiratory protection.

6.2 Environmental precautions

Prevent undiluted product from entering drains. Very dilute solution can be washed into drains with plenty of water.

6.3 Methods and materials for containment and cleaning up

Neutralize with sodium carbonate or bicarbonate. Flush with plenty of water.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Keep container closed when not in use. Avoid breathing dust. Avoid contact with skin, eyes and clothing. Ensure that eyewash stations and safety showers are close to the workstation location.

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry and cool place.

Keep in a dry place.

Materials for packaging

Suitable material: original container

Materials to avoid:

Acids, Bases, Oxidizing agents

7.3 Specific end uses

Preservative

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Limit Values

Contains no substances with occupational exposure limit values.



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PNEC : Soil
Value: 0,026 mg/kg dw

PNEC : Water
Value: 624 mg/l
Biological waste water treatment plant

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid dust formation during handling. Safety shower and an eye wash bottle with clean water near the charging station.

8.2.2 Individual protection measures, such as personal protective equipment

Hand protection

Glove material: PVC
Glove material: Rubber gloves

Eye protection

Tightly fitting safety goggles or face-shield.

Skin and body protection

Work clothing.

Respiratory protection

Respirator must be worn if exposed to dust. Respirator with a dust filter

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information (appearance, odour)

Physical state	solid, crystalline, powder
Colour	white
Odour	mild, smell of acetic acid

Important health safety and environmental information

pH	4,5 - 5 (10 %) (as aqueous solution)
Flash point	> 250 °C (open cup)
Flammability (solid, gas)	The product is not flammable. (Flammability (solids)) does not ignite

Explosive properties:



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Density	1.410 kg/m ³ 750 kg/m ³ loose
Solubility(ies):	
Water solubility	1.040 kg/m ³ (20 °C) 1.580 kg/m ³ (60 °C)
Thermal decomposition	> 150 °C

9.2 Other data

Surface tension	not applicable
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10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Stable under normal conditions.
The product is hygroscopic.

10.5 Incompatible materials

Materials to avoid : Acids
Bases
Oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : carbon oxides (COx)
acetic acid

Thermal decomposition : >150 °C

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity



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Sodium hydrogen di(acetate): LD50

Oral/Oral/rat: 5.600 mg/kg

LCLo/Inhalation/4 h/rat: = 16000 ppm

LD50 Dermal/Dermal/rat: 2.000 mg/kg

Irritation and corrosion

Sodium hydrogen di(acetate):

Skin: rabbit/72 h/OECD Test Guideline 404:

No skin irritation Not classified as irritating for skin.

Eyes: rabbit/24 h/OECD Test Guideline 405: Irreversible effects on the eye.

Causes serious eye damage.

Sensitisation

Sodium hydrogen di(acetate):

Remarks: Information given is based on data obtained from similar substances. Did not cause sensitization on laboratory animals.

Not sensitizing.

Long term toxicity

Sodium hydrogen di(acetate):

Repeated dose toxicity:

NOAEL: = 132 mg/kg bw/day

Mutagenicity

Remarks: Read-across (Analogy) Literary reference

Test on bacteria did not show mutagenic effect. Tests on mammals did not show mutagenic effects.

Remarks: Information given is based on data obtained from similar substances. Read-across (Analogy)

not mutagenic

Reproductive toxicity

NOEL: = 665,5 mg/kg bw/day



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Remarks: Information given is based on data obtained from similar substances. Read-across (Analogy)
Not believed to be toxic for reproduction.

Teratogenicity

Mother: 1.185 mg/kg
Information given is based on data obtained from similar substances.

Human experience

Inhalation

Exposure to dust at high concentrations.,
May cause irritation of the mucous membranes. May cause irritation of respiratory tract.

Skin contact

Irritating to skin.

Eye contact

Dust causes irritation. Dust may cause corneal damage.

Ingestion

Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity effects

Aquatic toxicity

Sodium hydrogen di(acetate):

LC50/fish: 184,7 mg/l

Remarks: fresh water, By calculation according to the conventional method

/Invertebrates.: 141 mg/l

Remarks: fresh water, Information given is based on data obtained from similar substances.

/algae: 164 mg/l

Toxicity to other organisms

no data available

12.2 Persistence and degradability

Biological degradability:

Readily biodegradable



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Biological degradability: Sodium hydrogen di(acetate):

Remarks: Readily biodegradable. Information given is based on data obtained from similar substances.

Chemical degradation: Sodium hydrogen di(acetate):

Hydrolyses in water.

12.3 Bioaccumulative potential

Sodium hydrogen di(acetate):

Bioconcentration factor (BCF)/calculated: 3,16

Partition coefficient: n-octanol/water: log Pow: -3,72

12.4.Mobility in soil

Mobility

Water solubility: 1.040 kg/m³ (20 °C)

1.580 kg/m³ (60 °C)

Surface tension: not applicable

Water soluble. Stays in water phase. non-volatile

Sodium hydrogen di(acetate):

Adsorption and/or desorption: Koc: 1

12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Dispose of in compliance with local and national regulations.



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14. TRANSPORT INFORMATION

14.1 UN number

Land transport

Not classified as dangerous in the meaning of transport regulations.

Sea transport

Not classified as dangerous in the meaning of transport regulations.

Air transport

Not classified as dangerous in the meaning of transport regulations.

14.6 Special precautions for user

Keep in a dry place.



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15. REGULATORY INFORMATION

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

Other regulations : Not listed

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance.

16. OTHER INFORMATION

Full text of H-Statements referred to under section 3.

H318 Causes serious eye damage.

Text of R-phrases mentioned in Section 3

R41 Risk of serious damage to eyes.

Training advice

Read the safety data sheet before using the product.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Sources of key data used to compile the Safety Data Sheet

Regulations, databases, literature, own tests.

Additions, Deletions, Revisions

Relevant changes have been marked with vertical lines.