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)

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).
3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>EINECS-No. / ELINCS No.</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydrogen di(acetate)</td>
<td>126-96-5</td>
<td>204-814-9</td>
<td>&lt;= 100</td>
</tr>
</tbody>
</table>

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.
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.
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:
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

Density
1.410 kg/m³
750 kg/m³ loose

Solubility (ies):
Water solubility
1.040 kg/m³ (20 °C)
1.580 kg/m³ (60 °C)

Thermal decomposition
> 150 °C

9.2 Other data
Surface tension not applicable
Sodium diacetate

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
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
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.
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.
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.