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

1.1 Product identifiers

Product name: Carbamyl phosphate disodium salt

Product Number: C4135
Brand: Aldrich
CAS-No.: 72461-86-0

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

Identified uses: Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company: Sigma-Aldrich Chemie BV
Stationsplein 4
3331 LL ZWIJNDRECHT
NETHERLANDS

Telephone: +31 78-620-5411
Fax: +31 78-620-5421
E-mail address: eurtechserv@sial.com

1.4 Emergency telephone number

Emergency Phone #: 112

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula: CH$_2$NNa$_2$O$_5$P
Molecular Weight: 184,98 g/mol

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with water as a precaution.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed
4.3 Indication of any immediate medical attention and special treatment needed
   no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, nitrogen oxides (NOx), Oxides of phosphorus, Sodium oxides

5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information
no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapors, mist or gas.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
   Recommended storage temperature: -20 °C

7.3 Specific end uses
no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Components with workplace control parameters

8.2 Exposure controls
Appropriate engineering controls
General industrial hygiene practice.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection**
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. **PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

a) Appearance  
Form: solid
b) Odour  
no data available
c) Odour Threshold  
no data available
d) pH  
no data available
e) Melting point/freezing point  
no data available
f) Initial boiling point and boiling range  
no data available
g) Flash point  
no data available
h) Evaporation rate  
no data available
i) Flammability (solid, gas)  
no data available
j) Upper/lower flammability or explosive limits  
no data available
k) Vapour pressure  
no data available
l) Vapour density  
no data available
m) Relative density  
no data available
n) Water solubility  
no data available
o) Partition coefficient: n-octanol/water  
no data available
p) Autoignition temperature  
no data available
q) Decomposition temperature  
no data available
r) Viscosity  
no data available
s) Explosive properties  
no data available
t) Oxidizing properties  
no data available

9.2 Other safety information  
no data available

10. **STABILITY AND REACTIVITY**

10.1 Reactivity  
no data available
10.2 Chemical stability
no data available

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
no data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
no data available

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity
no data available

Specific target organ toxicity - single exposure
no data available

Specific target organ toxicity - repeated exposure
no data available

Aspiration hazard
no data available

Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion May be harmful if swallowed.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.

Additional Information
RTECS: Not available

12. ECOLOGICAL INFORMATION

12.1 Toxicity
no data available

12.2 Persistence and degradability
no data available

12.3 Bioaccumulative potential
no data available
12.4  Mobility in soil
        no data available

12.5  Results of PBT and vPvB assessment
        no data available

12.6  Other adverse effects
        no data available

13.   DISPOSAL CONSIDERATIONS

13.1  Waste treatment methods

        Product
        Offer surplus and non-recyclable solutions to a licensed disposal company.

        Contaminated packaging
        Dispose of as unused product.

14.   TRANSPORT INFORMATION

14.1  UN number
        ADR/RID: -  IMDG: -  IATA: -

14.2  UN proper shipping name
        ADR/RID: Not dangerous goods
        IMDG: Not dangerous goods
        IATA: Not dangerous goods

14.3  Transport hazard class(es)
        ADR/RID: -  IMDG: -  IATA: -

14.4  Packaging group
        ADR/RID: -  IMDG: -  IATA: -

14.5  Environmental hazards
        ADR/RID: no  IMDG Marine pollutant: no  IATA: no

14.6  Special precautions for user
        no data available

15.   REGULATORY INFORMATION

        This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1  Safety, health and environmental regulations/legislation specific for the substance or mixture
        no data available

15.2  Chemical Safety Assessment
        no data available

16.   OTHER INFORMATION

        Further information
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