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· 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008

The substance is not classified according to the CLP regulation.

· 2.2 Label elements

- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void

· Signal word Void

- · Hazard statements Void
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: No PBT.
- · vPvB: No vPvB.

#### **SECTION 3: Composition/information on ingredients**

• 3.1 Chemical characterization: 3.1. Substances Molecular formula: Na2HPO4,12H2O Molecular weight: 358,14 g/mol Synonyms: -

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• CAS No. Description
10039-32-4 di-Sodium hydrogen phosphate dodecahydrate
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#### Trade name: di-Sodium hydrogen phosphate dodecahydrate

· Identification number(s)

• EC number: 231-448-7

## **SECTION 4: First aid measures**

#### · 4.1. Description of first aid measures

Immediately remove any clothing soiled by the product.

When symptoms occur or in case of doubt, seek medical advice.

Resuscitation should be provided in life-threatening conditions as follows:

If not breathing – artificial respiration must be initiated immediately, using mouth-to-mouth resuscitation;

Cardiac arrest – indirect heart massage must be initiated immediately;

Unconsciousness – the victim must be placed in a stabilized position.

If vomiting occurs, keep the victim's head below the hips to avoid the aspiration of vomit into the lungs.

• After inhalation: Supply fresh air; consult doctor in case of complaints.

• After skin contact: Immediately wash with water and soap and rinse thoroughly.

• After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing:

Wash mouth out with water.

Seek immediate medical advice.

· 4.2 Most important symptoms and effects, both acute and delayed

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

At high concentrations:

May cause irritation to eyes, skin, respiratory tract.

May be harmful if swallowed.

· Information for doctor: None

• 4.3 Indication of any immediate medical attention and special treatment needed Symptomatic treatment

#### **SECTION 5: Firefighting measures**

#### • 5.1. Extinguishing media Incombustible

Use fire extinguishing methods suitable to surrounding conditions.

- · For safety reasons unsuitable extinguishing agents: Not known
- 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released: oxides of phosphorus.
- **5.3.** Advice for firefighters Wear self-contained respiratory protective device. Wear fully protective suit.
- Additional information Suppress (knock down) gasses / vapors / mists with a water spray jet. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Avoid formation of dust. Ensure adequate ventilation Use respiratory protective device against the effects of fumes/dust/aerosol.
  6.2 Environmental precautions Do not allow to enter sewers/ surface or ground water.
- $\cdot$  6.3 Methods and material for containment and cleaning up
- Pick up mechanically. Collect in properly labeled containers.

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In a closed container transfer to the designated location for disposal. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. · 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. **SECTION 7: Handling and storage** · 7.1 Precautions for safe handling Prevent formation of dust. Ensure good ventilation/exhaustion at the workplace. · Information about fire - and explosion protection: The product is not flammable. Store-houses must meet the fire safety requests for buildings. The technical equipment must comply with regulations. · 7.2. Storage: • Requirements to be met by storerooms and receptacles: Store in a cool location. · Information about storage in one common storage facility: Store away from foodstuffs. Do not store together with acids. • Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. This product is hygroscopic.

• 7.3 Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

- · 8.1. Control parameters Not required.
- · DNELs No data available.
- · PNECs No data available.
- · Additional information: The SDS is legally based on documents effective at the release thereof.
- · 8.2 Exposure controls
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Store protective clothing separately. Wash hands before breaks and at the end of work. Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Set up eyewash and safety showers are close to the workstation. **Respiratory protection:** 

• Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use selfcontained respiratory protective device.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

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#### · Material of gloves

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
- *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

• *Limitation and supervision of exposure into the environment Follow conditions of handling and storage. Areas provide against leakage into waterways, soil and drainage.* 

| SECTION 9: Physical and chemical properties                |   |  |
|--|---|--|
| 9.1. Information on basic physical and chemical properties |   |  |
| · Appearance:  |   |  |
| Form:  | Solid   |  |
|  | Crystalline                                   |  |
| Colour:  | Colourless                                    |  |
| · Odour:   | Odourless                                     |  |
| • Odour threshold:   | Not determined.                               |  |
| • <i>pH-value</i> (35,8 <i>g/l</i> ) at 25 • <i>C</i> :    | 8,4 - 9,6                                     |  |
| · Change in condition                                      |   |  |
| Melting point/freezing point:                              | 35 °C   |  |
| Initial boiling point and boiling range:                   | Not applicable.                               |  |
| · Flash point:   | Not applicable.                               |  |
| · Flammability (solid, gas):                               | Not combustible                               |  |
| · Decomposition temperature:                               | Not determined.                               |  |
| · Auto-ignition temperature:                               | Product is not selfigniting.                  |  |
| · Explosive properties:                                    | Product does not present an explosion hazard. |  |
| · Explosion limits:  |   |  |
| Lower:   | Not determined.                               |  |
| Upper:   | Not determined.                               |  |
| · Vapour pressure:   | Not applicable.                               |  |
| · Density at 20 °C:  | $1,52 \text{ g/cm}^3$                         |  |
| · Relative gas density                                     | Not applicable.                               |  |
| · Evaporation rate   | Not applicable.                               |  |
| · Solubility in / Miscibility with                         |   |  |
| water at 20 °C:  | 35,8 g/l                                      |  |
| · Partition coefficient: n-octanol/water:                  | Not determined.                               |  |
| · Viscosity:   |   |  |
| Dynamic:   | Not applicable.                               |  |
| Oxidising properties:                                      | None  |  |
| · 9.2 Other information                                    | No further relevant information available.    |  |

# SECTION 10: Stability and reactivity

· 10.1 Reactivity Under normal conditions stable.

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· 10.2. Chemical stability

- No decomposition if used according to specifications.
- To avoid thermal decomposition do not overheat.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid
- Strong heating. Exposure to moisture.
- **10.5 Incompatible materials** strong acids.
- 10.6 Hazardous decomposition products
- Phosphorus oxides (e.g. P2O5) Sodium oxides

## **SECTION 11: Toxicological information**

#### · 11.1 Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

 $\cdot$  a) Acute toxicity

Oral LD50 430 mg/kg (mouse) intraperitoneal

>2000 mg/kg (rat)

• b) Skin corrosion/irritation Mild irritant.

- · c) Serious eye damage/irritation Mild irritant.
- d) Respiratory or skin sensitization Based on available data, the classification criteria are not met.
- e) Germ cell mutagenicity Based on available data, the classification criteria are not met.
- $\cdot$  f) Carcinogenicity Based on available data, the classification criteria are not met.
- $\cdot$  g) Reproductive toxicity Based on available data, the classification criteria are not met.
- $\cdot$  h) STOT-single exposure Based on available data, the classification criteria are not met.
- $\cdot$  i) STOT-repeated exposure Based on available data, the classification criteria are not met.
- $\cdot$  *j*) Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2. Potential acute health effects

After swallowing:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

- After eye contact: Mild irritant.
- After skin contact: Mild irritant.
- After inhalation: Inhalation of the dust should be avoided as even inert dusts may impair respiratory organ functions.

## **SECTION 12: Ecological information**

· 12.1 Toxicity

· Aquatic toxicity:

EC50/48 h 1089 mg/l (daphnia) (Daphnia magna)

LC50/48 h 467 mg/l (fish) (Gambusia affinis)

· 12.2 Persistence and degradability Inorganic compound

- · 12.3 Bioaccumulative potential No information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment Does not meet the criteria for inclusion.
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 12.6. Other adverse effects No further relevant information available.

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## **SECTION 13: Disposal considerations**

#### · 13.1. Waste treatment methods

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Prevent waste formation or provide waste reduction to minimum if possible. Disposal operations within accordance with local and national regulations.

• Uncleaned packaging:

• **Recommendation:** Disposal must be made according to official regulations.

| SECTION 14: Transport information  |  |
|--|--|
| · 14.1 UN-Number<br>· ADR, ADN, IMDG, IATA                                     | Not classified as dangerous in the meaning of transport regulations.<br>Void |
| · 14.2 UN proper shipping name<br>· ADR, ADN, IMDG, IATA                       | Void   |
| · 14.3 Transport hazard class(es)  |  |
| · ADR, ADN, IMDG, IATA<br>· Class  | Void   |
| · 14.4 Packing group<br>· ADR, IMDG, IATA                                      | Void   |
| · 14.5 Environmental hazards<br>· Marine pollutant:                            | None.<br>No  |
| · 14.6 Special precautions for user  | Not applicable.  |
| • 14.7 Transport in bulk according to Annex II<br>MARPOL73/78 and the IBC Code | of<br>Not applicable.  |
| · Transport/Additional information:  |  |
| · ADR<br>· Transport category  | Void   |

**SECTION 15: Regulatory information** 

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

• Safety, health and environmental regulations/legislation specific for the substance or mixture The substance is not subject to classification according to the latest version of the EU lists.

· 15.2 Chemical safety assessment A Chemical Safety Assessment has not been carried out.

## **SECTION 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 SDS: Product safety department

· Contact: Mr. Kudrna

· 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)

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 Harmonised System of Classification and Labelling of Chemicals

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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 PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative (Contd. of page 6)

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