

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006  
GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

**Product Number:** F0218  
**Product name:** D-Fructose 1,6-diphosphate trisodium salt hydrate  
**CAS Registry Nr:** 38099-82-0

**REACH No.:** A registration number is not available for this substance as the substance or its uses are exempted from registration, 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 Identified uses:

Laboratory chemicals, Manufacture of substances. For research use only. Not intended for human or animal diagnostic or therapeutic uses.

#### 1.3 Details of the supplier of the safety data sheet Company

Chemodex Ltd  
Lindenstrasse 77  
CH - 9000 St. Gallen  
Switzerland, Europe  
**Tel:** +41 71 244 48 25  
**Fax:** +41 71 244 48 26  
**eMail:** info@chemodex.com

#### 1.4 Emergency telephone number

+41 44 251 5151 (Tox Zentrum, CH)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.  
This substance is not classified as dangerous according to Directive 67/548/EEC.

#### 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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### SECTION 3: Composition/information on ingredients

**Product name:** D-Fructose 1,6-diphosphate trisodium salt hydrate  
**Synonyms:** D(+)-Fructofuranose 1,6-diphosphatetrisodium salt hydrate  
Harden-Young ester

Hexose diphosphatetrisodium salthhydrate

**Formula :**  $C_6H_{11}Na_3O_{12}P_2 \cdot xH_2O$   
**Molecular weight.:** 406,06 g/mol

No components need to be disclosed according to the applicable regulations.

## SECTION 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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

## SECTION 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, Oxides of phosphorus, Sodium oxides

### 5.3 Advice for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.4 Further information

No data available

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas.

For personal protection see section 8.

### 6.2 Environmental precautions

No special environmental precautions required.

### 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.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

### 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

Storage class (TRGS 510): Non Combustible Solids

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 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

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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### 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).

#### Control of environmental exposure

No special environmental precautions required.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

a) **Appearance:**

**Form:** solid

b) **Odour:**

No data available

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

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 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  
In the event of fire: see section 5

## SECTION 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 sensitisation:** No data available

**Germ cell mutagenicity:** No data available

### Carcinogenicity

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

<b>Reproductive toxicity:</b>	No data available
<b>Specific target organ toxicity-single exposure:</b>	No data available
<b>Specific target organ toxicity-repeated exposure:</b>	No data available
<b>Aspiration hazard:</b>	No data available

**Additional Information**

**RTECS:** Not available

**SECTION 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**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

No data available.

**SECTION 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.

**SECTION 14: Transport information****14.1 UN number**

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

ADR/RID: -	IMDG: -	IATA: -
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**14.5 Environmental hazards**

ADR/RID : no

IMDG Marine pollutant: no

IATA: no

**14.6 Special precautions for user****Further information**

No data available.

**SECTION 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**

For this product a chemical safety assessment was not carried out

**SECTION 16: Other information****Further information**

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