

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

#### 1.1. Product identifier

Product form	: Substance
Name	: Disodium Phosphate Heptahydrate
Trade name	: Sodium Phosphate Dibasic Heptahydrate
EC-No.	: 231-448-7
CAS-No.	: 7782-85-6
REACH registration No	: 01-2119489797-11-0042
Formula	: Na <sub>2</sub> HPO <sub>4</sub> • 7H <sub>2</sub> O

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Pharmaceutical industry

##### 1.2.2. Uses advised against

No additional information available

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

##### Manufacturer

JOST CHEMICAL CO.  
8150 Lackland  
P.O. Box MO 63114  
Saint Louis - USA  
T +1 314-428-4300 - F +1 314-428-4366  
[sds@jostchemical.com](mailto:sds@jostchemical.com)

##### Distributor

JOST CHEMICAL EUROPE SPRL  
Rue du Bois Portal 30/1-3  
5300 Andenne - BELGIQUE  
T +32 85 552 655 - F +32 85 552 654  
[info@josteurope.com](mailto:info@josteurope.com)

#### 1.4. Emergency telephone number

Emergency number : For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night  
United States and Canada: 1-800-424-9300 / +1 703-527-3887  
Global: +1 703-741-5970

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP)	: None
Hazard statements (CLP)	: None.
Precautionary statements (CLP)	: None.

#### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

# Sodium Phosphate Dibasic Heptahydrate

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name	Product identifier	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Disodium Phosphate Heptahydrate	(CAS-No.) 7782-85-6 (EC-No.) 231-448-7 (REACH-no) 01-2119489797-11-0042	Not classified

#### 3.2. Mixtures

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation	: Move the affected person away from the contaminated area and into the fresh air.
First-aid measures after skin contact	: Remove all contaminated clothing and footwear. Rinse with plenty of water.
First-aid measures after eye contact	: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). If irritation persists, consult an eye specialist.
First-aid measures after ingestion	: Give water to drink. If necessary seek medical advice.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after ingestion	: On ingestion in large quantities: Nausea. Vomiting. Abdominal pain. Diarrhea. Irregular heartbeat. CNS depression.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Water fog. Carbon dioxide (CO <sub>2</sub> ). Powder.
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#### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not combustible.
Hazardous decomposition products in case of fire	: On thermal decomposition (pyrolysis), releases : Sodium oxides. Phosphorus oxides.

#### 5.3. Advice for firefighters

Firefighting instructions	: Cool down the containers exposed to heat with a water spray. Do not dispose of fire-fighting water in the environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Emergency procedures	: Do not breathe dust.
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##### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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#### 6.2. Environmental precautions

Do not allow product to spread into the environment. Do not discharge into drains or rivers.

#### 6.3. Methods and material for containment and cleaning up

For containment	: Sweep up or vacuum up the product. Collect up the product and place it in a spare container suitably labelled.
Methods for cleaning up	: Wash contaminated area with large amounts of water.
Other information	: Dispose of contaminated materials in accordance with current regulations.

#### 6.4. Reference to other sections

For further information refer to section 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Dust extraction (suction). Avoid contact with skin and eyes. Avoid the formation or spread of dust in the atmosphere.
- Hygiene measures : Do not eat, drink or smoke when using this product.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Does not require any specific or particular technical measures.
- Storage conditions : Keep container tightly closed and dry. Store in dry, cool, well-ventilated area.
- Incompatible materials : Strong oxidizing agents. Strong acids.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Disodium Phosphate Heptahydrate (7782-85-6)		
Ireland	Local name	Dusts non-specific
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup> respirable 10 mg/m <sup>3</sup> total inhalable
Ireland	Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018

Disodium Phosphate Heptahydrate (7782-85-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	15.47 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	6.63 mg/m <sup>3</sup>

#### 8.2. Exposure controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station. Extraction to remove dust at its source.

##### Hand protection:

Nitrile-rubber protective gloves. Butyl-rubber protective gloves. Neoprene rubber gloves. Chloroprene protective gloves. VITON gloves. The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374. Breakthrough time : refer to the recommendations of the supplier

##### Eye protection:

Safety goggles

##### Respiratory protection:

In case of dust formation use respirator with filter: P1 / FFP1

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

- Physical state : Solid
- Appearance : Pellet.
- Molecular mass : 268.07 g/mol
- Colour : Colourless.
- Odour : None.
- Odour threshold : No data available
- pH : Not applicable
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point : 450 °C (anhydrous product)
- Freezing point : Not applicable
- Boiling point : Not applicable
- Flash point : Not applicable
- Auto-ignition temperature : > 400 °C (anhydrous product)
- Decomposition temperature : 240 °C
- Flammability (solid, gas) : Not flammable

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Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.7
Solubility	: Water: 23 - 25 % (anhydrous product - 20°C - pH = 9.2)
Log Pow	: Not applicable
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing material.
Explosive limits	: Not determined

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

To our knowledge, the product does not present any particular risk, under normal conditions of use.

### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

### 10.3. Possibility of hazardous reactions

None to our knowledge.

### 10.4. Conditions to avoid

None to our knowledge.

### 10.5. Incompatible materials

Strong oxidizing agents. Strong acids.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

Disodium Phosphate Heptahydrate (7782-85-6)	
LD50 oral rat	> 2000 mg/kg (OECD 420 method) (anhydrous product)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method) (anhydrous product)
LC50 inhalation rat	> 0.83 mg/l/4h (OECD 403 method) (Results obtained on a similar product)

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Additional information	: Not irritating to rabbits on cutaneous application (equivalent or similar to OECD Guideline 404)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Additional information	: Not irritating to rabbits on ocular application (equivalent or similar to OECD Guideline 405)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Did not cause sensitisation (OECD 429 method) (results obtained by read-across) (Published data)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: In vitro Mammalian Cell Gene Mutation Test : negative (OECD 487 method) (read-across)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)

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Additional information	: NOAEL (oral,rat) : > 370 mg/kg/d (results obtained by read-across) (Published data)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Dust from this product may cause irritation to the respiratory tract
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Technical impossibility to obtain the data)

### SECTION 12: Ecological information

#### 12.1. Toxicity

Acute aquatic toxicity	: Not classified (Based on available data, the classification criteria are not met)
Chronic aquatic toxicity	: Not classified (Based on available data, the classification criteria are not met)

Disodium Phosphate Heptahydrate (7782-85-6)	
LC50 fish	> 100 mg/l/96h Oncorhynchus mykiss (Rainbow trout)(OECD 203 method)(read-across)
EC50 Daphnia	> 100 mg/l/48 h (Daphnia magna)(OECD 202 method)(read-across)
ErC50 (algae)	> 100 mg/l/72 h (Desmodesmus subspicatus)(OECD 201 method)(read-across)
NOEC chronic algae	> 100 mg/l/72 h (Desmodesmus subspicatus)(OECD 201 method)(read-across)

#### 12.2. Persistence and degradability

Disodium Phosphate Heptahydrate (7782-85-6)	
Persistence and degradability	Not applicable (inorganic substance).

#### 12.3. Bioaccumulative potential

Disodium Phosphate Heptahydrate (7782-85-6)	
Log Pow	Not applicable
Bioaccumulative potential	Not applicable (inorganic substance).

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

Disodium Phosphate Heptahydrate (7782-85-6)	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods	: Dispose of in accordance with relevant local regulations.
Product/Packaging disposal recommendations	: Destroy at an authorised site.
Additional information	: The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
<b>14.1. UN number</b>		
Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>		
Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>		
Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>		
Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
Not applicable.		

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### 14.6. Special precautions for user

#### - Overland transport

No data available

#### - Transport by sea

No data available

#### - Air transport

No data available

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Disodium Phosphate Heptahydrate is not on the REACH Candidate List

Disodium Phosphate Heptahydrate is not on the REACH Annex XIV List

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes:

This sheet was updated (refer to the date at the top of this page). SDS changed sections : 8-9-11-12.

Data sources	: REACH registration.
Other information	: This product must not be used for other applications that mentioned in §1. Safety data sheet established by : LISAM SERVICES - TELEGIS 17 rue de la Couture F-60400 Passel <a href="http://www.lisam-telegis.fr">www.lisam-telegis.fr</a> .

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*