

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

**Product identifier:**

**Trade name:** Disodium Dihydrogen Pyrophosphate  
**CAS Number:** 7758-16-9  
**EC number:** 231-835-0  
**Registration number:** 01-2119489793-19-0004 (CAS: 7758-16-9)

**Relevant identified uses of the substance or mixture and uses advised against:**

Complexing agents.  
Corrosion inhibitors and anti-scaling agents.  
Surface active agents.  
For professional use in industrial organic and inorganic chemistry.

**Company name:**

Nexchem Ltd  
Unit 3 Barshaw Park  
Leycroft Road  
Leicester  
LE4 1ET  
Tel: 0116 2311130  
24/7 Emergency Tel: 0800 246 1274  
Email: [sales@nexchem.co.uk](mailto:sales@nexchem.co.uk)

## 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture:**

**Classification according to Regulation (EC) No 1272/2008:**



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC:**



Xi; Irritant

R36: Irritating to eyes.

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**Information concerning particular hazards for human and environment:** Not applicable.

**Classification system:** Classification complies with the latest edition of the EU-list and is extended by company and literature data.

### Label elements:

**Labelling according to Regulation (EC) No 1272/2008:** The substance is classified and labelled according to the CLP regulation.

**Hazard pictograms:** GHS07

**Signal word:** Warning

**Hazard statements:** H319 Causes serious eye irritation.

**Precautionary statements:** P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P330 Rinse mouth.

**Other hazards:** Not known.

### Classification system:

**Eye contact:** May cause irritation.

**Skin contact:** May cause skin irritation.

**Ingestion:** Can cause mild stomach and intestinal irritation associated with nausea and vomiting.

**Other hazards:** None

### Results of PBT and vPvB assessment:

**PBT:** Not applicable.

**vPvB:** Not applicable.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substances:** It is not necessary to give the full composition. See chapter 15 - Labelling for content.

**CAS No. Description:** 7758-16-9 Disodium Dihydrogen Pyrophosphate

**EC number:** 231-835-0

## 4. FIRST AID MEASURES

### Description of first aid measures:

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

**After skin contact:** Generally, the product does not irritate the skin.

**After eye contact:** Rinse the opened eye for several minutes under running water. Ensure adequate flushing by separating the eyelids with fingers. If symptoms persist, consult a physician.

**After swallowing:** If symptoms persist, consult a physician.

**Information for doctor:**

**Most important symptoms and effects, both acute and delayed:** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

[cont...]

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Use fire extinguishing methods suitable to surrounding conditions.

**Extinguishing media which shall not be used for safety reasons:** Not known. -

**Special hazards arising from the substance or mixture:** Not known.

**Advice for firefighters:** Wear fully protective suit.

**Additional information:** Not explosive.  
Not auto-flammable.  
Not flammable.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

Wear protective clothing.  
Avoid formation of dust.

**Environmental precautions:** Dilute with plenty of water.

**Methods and material for containment and cleaning up:** Pick up mechanically.

**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.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** No special precautions are necessary if used correctly.

**Information about fire - and explosion protection:** No special measures required.

**Conditions for safe storage, including any incompatibilities:**

**Requirements to be met by storerooms and receptacles:** Store in a cool and dry area.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:**

Store in dry conditions.  
Store in a cool place.  
Keep container tightly sealed.

**Recommended storage temperature:** -

**Specific end use(s):** According to the instructions on the package label.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Additional information about design of technical facilities:** See item 5, 6, 7

**Control parameters:** Not required.

**Additional information:** The lists valid during the making were used as basis.

### Exposure controls:

**Occupational exposure controls:** 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.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Respiratory protection:** In case of increased dustiness use respiratory protective device. ·

**Hand protection:** Protective gloves and protective skin cream.

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.

In case of long-term contact use protective gloves or protective skin cream

### Material of gloves:

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Chloroprene rubber, CR

Natural rubber, NR

Nitrile rubber, NBR

Latex or rubber

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:** In case of increased dustiness use safety glasses or face protection

**Skin protection:** Protective work clothing

**Exposure controls of users/consumers:** Not a hazard in normal use.

No personal protective equipment required.

Protective gloves are recommended for people with sensitive skin.

Avoid contact with the eyes and skin.

Wash hands at the end of work with product.

General dust exposure limit, German TRGS 900 (2006) 3 mg/m<sup>3</sup> measured as alveolic part.

Well Long-term value: 5 mg/m<sup>3</sup> ·

**Environmental exposure controls:** Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties:

**Appearance:**

<b>Physical state:</b>	Powder
<b>Colour:</b>	White
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	Not determined.
<b>pH-value (10 g/l) at 20°C (68 °F):</b>	3.7 - 5.0

### Important health, safety and environmental information:

<b>Melting point/Melting range:</b>	> 450°C (> 842 °F)	
<b>Boiling point/Boiling range:</b>	Undetermined.	
<b>Flash point:</b>	Not applicable.	
<b>Flammability (solid, gas):</b>	Product is not flammable.	
<b>Ignition temperature:</b>		
<b>Decomposition temperature:</b>	Not determined.	
<b>Self-igniting:</b>	Not determined.	
<b>Explosive properties:</b>	Product does not present an explosion hazard.	
<b>Explosion limits:</b>	Lower: Not determined.	Upper: Not determined.
<b>Oxidising properties:</b>	None.	
<b>Vapour pressure:</b>	Not determined.	
<b>Density:</b>	Undetermined.	
<b>Relative density:</b>	Not determined.	
<b>Vapour density:</b>	Not applicable.	
<b>Evaporation rate:</b>	Not applicable.	

**Solubility:**

**Water solubility at 20°C (68 °F):** 170 g/l

**Partition coefficient:**

<b>n-octanol/water:</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable
<b>Kinematic:</b>	Not applicable. .
<b>Other information:</b>	No further relevant information available.

## 10. STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable at recommended storage conditions.
<b>Possibility of hazardous reactions:</b>	No dangerous reactions known.
<b>Conditions to avoid:</b>	No further relevant information available.
<b>Incompatible materials:</b>	No further relevant information available.
<b>Hazardous decomposition products:</b>	No dangerous decomposition products known.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects:

<b>Acute toxicity:</b>	DNEL/DMEL (section 5.11.2 CSR)
<b>For workers:</b>	DNEL-worker-(long-term-systemic effects; inhalation) = 2.79 mg/m <sup>3</sup> NOAEC: 167.40 mg/m <sup>3</sup> (based on AF of 60)
<b>For general population:</b>	DNEL-general population-(long-term systemic effects; inhalation) = 0.68 mg/m <sup>3</sup> NOAEC: 81.60 mg/m <sup>3</sup> (based on AF of 120) Undetermined.

### Primary irritant effect:

**On the skin:** No irritating effect.

**On the eye:** Irritating effect.

**Sensitization:** No sensitizing effects known.

**Toxicokinetic, metabolism and distribution:** Not determined.

**Acute effects (acute toxicity, irritation and corrosivity):** Irritant.

**Sensitisation:** Not known.

**Repeated dose toxicity:** Not known.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** Not known.

## 12. ECOLOGICAL INFORMATION

### Toxicity:

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability:** No further relevant information available.

### Behaviour in environmental systems:

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

### Ecotoxicity:

#### Bacteria inhibition EC 20 (mg/l according to ISO 8192 B):

PNEC (section 7.6 CSR)

PNEC (aq freshwater) = 0.05 mg/L

Lowest value from short-term studies = >100 mg/L; AF=2000

PNEC=100/200= 0.05 mg/L

PNEC (aq marine) = 0.005 mg/L

Lowest value from short-term studies= >100 mg/L; AF=20000

PNEC= 100/20000= 0.005 mg/L

PNEC (intermittent release) = 0.5 mg/L

Lowest value from short-term studies = >100 mg/L; AF=200

PNEC= 100/200 = 0.5 mg/L

PNEC (stp)= 1000/20 = 50 mg/L

stp=sewerage treatment plant; AF=20

PNEC= 1000/20= 50 mg/L · 12.5.

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**Results of PBT and vPvB assessment:** Undetermined.

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects:** No further relevant information available.

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods:**

**Waste disposal key:** 06 09 99 Wastes from the MSFU of phosphorous chemicals and phosphorous chemical processes, not otherwise specified.

**Uncleaned packaging:**

**Waste disposal key:** 15 01 01 Paper and cardboard packaging.  
15 01 02 Plastic packaging.

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

**Recommended cleansing agents:** Water, if necessary, together with cleansing agents.

### 14. TRANSPORT INFORMATION

**Number OSN:**

**ADR, ADN, IMDG, IATA:** Void

**UN proper shipping name:**

**ADR, ADN, IMDG, IATA:** Void

**Transport hazard class(es):**

**ADR, ADN, IMDG, IATA:**

**Class:** Void

**Packing group:**

**ADR, IMDG, IATA:** Void

**Environmental hazards:**

**Marine pollutant:** No

**Special precautions for user:** Not applicable.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

[cont...]

## 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**Labelling according to Regulation (EC) No 1272/2008:** The substance is classified and labelled according to the CLP regulation.

**Hazard pictograms:** GHS07

**Signal word:** Warning.

**Hazard statements:** H319 Causes serious eye irritation.

**Precautionary statements:** P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

**National regulations:**

**Information about limitation of use:** Must adhere usual regulations for treatment of chemicals.

**Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

## 16. OTHER INFORMATION

**Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organization
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- ISO: International Organization for Standardization

**Sources of key data used to compile the Safety Data Sheet:** Material safety data sheets of raw materials.

**Legal disclaimer:** The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.