

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

**Product identifier:**

**Product name:** SODIUM DIHYDROGENORTHOPHOSPHATE

**REACH registered number(s):** 01-2119489796-13-XXXX

**CAS number:** 7558-80-7

**EINECS number:** 231-449-2

**Synonyms:** SODIUM DIHYDROGEN PHOSPHATE  
SODIUM PHOSPHATE, MONOBASIC  
MONOSODIUM PHOSPHATE

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

**Use of substance / mixture:** PC7: Base metals and alloys. PC9a: Coatings and paints, thinners, paint removers. PC9b: Fillers, putties, plasters, modelling clay. PC12: Fertilizers. PC14: Metal surface treatment products, including galvanic and electroplating products. PC15: Non-metal surface treatment products. PC20: Products such as pH-regulators, flocculants, precipitants, neutralization agents. PC19: Intermediate. PC21: Laboratory chemicals. PC27: Plant protection products. PC35: Washing and cleaning products (including solvent based products). PC36: Water softeners. PC37: Water treatment chemicals.

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## 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture:**

**Classification under CLP:** This product has no classification under CLP.

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### Label elements:

**Precautionary statements:**

P281: Use personal protective equipment as required.

P285: In case of inadequate ventilation wear respiratory protection.

P304+341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+350: IF ON SKIN: Gently wash with plenty of soap and water.

### Other hazards:

**PBT:** This product is not identified as a PBT/vPvB substance.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

### Substances:

**Chemical identity:** SODIUM DIHYDROGENORTHOPHOSPHATE

**CAS number:** 7558-80-7

**EINECS number:** 231-449-2

**REACH registered number(s):** 01-2119489796-13-####

## 4. FIRST AID MEASURES

### Description of first aid measures:

**Skin contact:** Wash immediately with plenty of soap and water. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Do not induce vomiting. Wash out mouth with water. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. Consult a doctor.

### Most important symptoms and effects, both acute and delayed:

**Skin contact:** There may be mild irritation at the site of contact. There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact.

**Eye contact:** There may be irritation and redness. There may be irritation and pain. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

**Immediate / special treatment:** Show this safety data sheet to the doctor in attendance. Eye bathing equipment should be available on the premises.

[cont...]

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### 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Water. Carbon dioxide. Dry chemical powder. Suitable extinguishing media for the surrounding fire should be used.

**Special hazards arising from the substance or mixture:**

**Exposure hazards:** In combustion emits toxic fumes.

**Advice for fire-fighters:** Not applicable.

### 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions:** Refer to section 8 of SDS for personal protection details. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust.

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**Methods and material for containment and cleaning up:**

**Clean-up procedures:** Wash the spillage site with large amounts of water. Avoid all incompatible materials in clean-up procedure - see section 10 of SDS. Refer to section 13 of SDS for suitable method of disposal.

**Reference to other sections:** Refer to section 8 of SDS. Refer to section 13 of SDS.

### 7. HANDLING AND STORAGE

**Precautions for safe handling:**

**Handling requirements:** Ensure there is sufficient ventilation of the area. Ensure there is exhaust ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air.

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

**Storage conditions:** Store in a cool, well ventilated area.

**Suitable packaging:** Must only be kept in original packaging.

**Specific end use(s):** No special requirement.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters:**

**Workplace exposure limits:** Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	-	10 mg/m <sup>3</sup>	-

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### DNEL/PNEC Values: SODIUM DIHYDROGENORTHOPHOSPHATE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	4.07 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Inhalation (repeated dose)	3.04 mg/m <sup>3</sup>	General Population	Systemic
PNEC	Fresh water	0.05 mg/L	-	-
PNEC	Marine water	0.005 mg/L	-	-
PNEC	Sewage Treatment Plant	50 mg/L	-	-

#### Exposure controls:

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure there is exhaust ventilation of the area.  
Ensure all engineering measures mentioned in section 7 of SDS are in place.

**Respiratory protection:** Respiratory protective device with particle filter. Particle filter class P3SL (EN143).

**Hand protection:** Protective gloves. Gloves (acid resistant). BS EN 374:2003

**Eye protection:** Safety glasses.

**Skin protection:** Protective clothing.

**Environmental:** Refer to specific Member State legislation for requirements under Community environmental legislation.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties:

<b>State:</b>	Powder		
<b>Colour:</b>	White		
<b>Odour:</b>	Odourless		
<b>Evaporation rate:</b>	Not applicable.		
<b>Oxidising:</b>	Non-oxidising (by EC criteria)		
<b>Solubility in water:</b>	Soluble		
<b>Viscosity:</b>	No data available.		
<b>Boiling point/range°C:</b>	No data available.	<b>Melting point/range°C:</b>	ca. 450
<b>Flammability limits %: Lower:</b>	No data available.	<b>Upper:</b>	No data available.
<b>Flash point°C:</b>	No data available.	<b>Part.coeff. n-octanol/water:</b>	No data available.
<b>Autoflammability°C:</b>	No data available.	<b>Vapour pressure:</b>	No data available.
<b>Relative density:</b>	2.36 kg/L		
<b>pH:</b>	4.0 - 5.0 (10 g/L)		
<b>VOC g/l:</b>	0		
<b>Other information:</b>	Not applicable.		

## 10. STABILITY AND REACTIVITY

**Reactivity:** Stable under recommended transport or storage conditions.

**Chemical stability:** Stable under normal conditions.

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## Possibility of hazardous reactions:

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

**Conditions to avoid:** Direct sunlight. Humidity.

## Incompatible materials:

**Materials to avoid:** Water. Bases.

## Hazardous decomposition products:

**Haz. decomp. products:** In combustion emits toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects:

#### Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	> 2000	mg/kg
DUST/MIST	RAT	4H LC50	> 5	mg/kg
DERMAL	RAT	LD50	> 2000	mg/kg

#### Excluded hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	-	Based on available data the classification criteria are not met
Skin corrosion/irritation	-	Based on available data the classification criteria are not met
Serious eye damage/irritation	-	Based on available data the classification criteria are not met
Respiratory/skin sensitisation	-	Based on available data the classification criteria are not met
Germ cell mutagenicity	-	Based on available data the classification criteria are not met
Carcinogenicity	-	Based on available data the classification criteria are not met
Reproductive toxicity	-	Based on available data the classification criteria are not met
STOT-single exposure	-	Based on available data the classification criteria are not met
STOT-repeated exposure	-	Based on available data the classification criteria are not met
Aspiration hazard	-	Based on available data the classification criteria are not met

#### Symptoms / routes of exposure:

**Skin contact:** There may be mild irritation at the site of contact. There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact.

**Eye contact:** There may be irritation and redness. There may be irritation and pain. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

**Other information:** Not applicable.

[cont...]

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## 12. ECOLOGICAL INFORMATION

### Toxicity:

### Ecotoxicity values:

Species	Test	Value	Units
RAINBOW TROUT ( <i>Oncorhynchus mykiss</i> )	96H LC50	> 100	mg/l
Daphnia magna	48H EC50	> 100	mg/l
Desmodesmus subspicatus	72H ErC50	> 100	mg/l

**Persistence and degradability:** Readily biodegradable.

**Bioaccumulative potential:** No bioaccumulation potential.

### Mobility in soil:

**Mobility:** Soluble in water. Readily absorbed into soil.

### Results of PBT and vPvB assessment:

**PBT identification:** This product is not identified as a PBT/vPvB substance.

**Other adverse effects:** Negligible ecotoxicity.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods:

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Recovery operations:** Not applicable.

**Disposal of packaging:** Dispose of as normal industrial waste.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## 14. TRANSPORT INFORMATION

**Transport class:** This product does not require a classification for transport.

## 15. REGULATORY INFORMATION

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

**Specific regulations:** Not applicable.

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

[cont...]

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**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

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

All data obtained from REACH Dossier, public data on ECHA website

**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.