

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

**Product identifier:**  
**Product name:** UREA PHOSPHATE POWDER  
**REACH registered name:** UREA PHOSPHATE  
**REACH registered number(s):** 01-2119489460-34-XXXX  
**CAS number:** 4861-19-2  
**EINECS number:** 225-464-3

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

**Use of substance / mixture:** PC4: Anti-Freeze and de-icing products.  
PC7: Base metals and alloys.  
PC8: Biocidal products (e.g. Disinfectants, pest control).  
PC12: Fertilizers.  
PC14: Metal surface treatment products, including galvanic and electroplating products.  
PC20: Products such as ph-regulators, flocculants, precipitants, neutralization agents.  
PC21: Laboratory chemicals.

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## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

**Classification under CHIP:** C: R34  
**Classification under CLP:** Skin Corr. 1B: H314  
**Most important adverse effects:** Causes burns.

### Label elements:

**Label elements under CLP:**

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**Hazard statements:** H314: Causes severe skin burns and eye damage.

**Signal words:** Danger

**Hazard pictograms:** GHS05: Corrosion



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

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P285: In case of inadequate ventilation wear respiratory protection.

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

P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

P502: Refer to manufacturer/supplier for information on recovery/recycling.

**Label elements under CHIP:**

**Hazard symbols:** Corrosive.



### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Risk phrases:** R34: Causes burns.

**Safety phrases:** S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28: After contact with skin, wash immediately with plenty of water.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

S59: Refer to manufacturer / supplier for information on recovery / recycling.

**Other hazards:**

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

**Substances:**

**Chemical identity:** UREA PHOSPHATE

**CAS number:** 4861-19-2

**EINECS number:** 225-464-3

**REACH registered number(s):** 01-2119489460-34-XXXX

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**4. FIRST AID MEASURES**

**Description of first aid measures:**

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

**Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate. Severe burns may occur.

**Eye contact:** Corneal burns may occur. May cause permanent damage. There may be severe pain. May cause permanent blindness.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. 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:** Eye bathing equipment should be available on the premises. Immediate medical attention is required.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

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

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

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**6. ACCIDENTAL RELEASE MEASURES**

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

**Personal precautions:** Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. 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.

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

**Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

**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:** Avoid direct contact with the substance. Ensure there is sufficient 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 cool, well-ventilated area. Keep container tightly closed.

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

**Specific end use(s):** No data available.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters:**

**Hazardous ingredients:** UREA PHOSPHATE

**Workplace exposure limits:** Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	-	-

**DNEL/PNEC Values**

**Hazardous ingredients:** UREA PHOSPHATE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	2.92 mg/m <sup>3</sup>	Workers	Local
DNEL	Inhalation (repeated dose)	0.73 mg/m <sup>3</sup>	General Population	Local

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<b>Exposure controls:</b>	
<b>Engineering measures:</b>	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.
<b>Respiratory protection:</b>	Particle filter class P3SL (EN143). Respiratory protective device with particle filter.
<b>Hand protection:</b>	Protective gloves. Breakthrough time of the glove material > 2 hours. Gloves (acid resistant). BS EN 374:2003
<b>Eye protection:</b>	Tightly fitting safety goggles. Ensure eye bath is to hand.
<b>Skin protection:</b>	Protective clothing.
<b>Environmental:</b>	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>	Solid		
<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>	Highly soluble		
<b>Viscosity:</b>	No data available.		
<b>Boiling point/range °C:</b>	No data available.	<b>Melting point/range °C:</b>	> 200
<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>Auto flammability °C:</b>	No data available.	<b>Vapour pressure:</b>	No data available.
<b>Relative density:</b>	1.77 kg/L	<b>pH:</b>	< 2 (Solution)
<b>VOC g/l:</b>	No data available.		
<b>Other information:</b>	No data available.		

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	Stable under recommended transport or storage conditions.
<b>Chemical stability:</b>	Stable under normal conditions.
<b>Hazardous reactions:</b>	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
<b>Conditions to avoid:</b>	Heat.
<b>Incompatible materials:</b>	
<b>Materials to avoid:</b>	Strong oxidising agents. Strong acids. Strong reducing agents. Strong bases. Metals.
<b>Hazardous decomposition products:</b>	In combustion emits toxic fumes.

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**11. TOXICOLOGICAL INFORMATION**

**Hazardous ingredients:**

**UREA PHOSPHATE**

ORAL	RAT	LD50	> 2000	mg/kg
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**Relevant hazards for substance:**

<b>Hazard</b>	<b>Route</b>	<b>Basis</b>
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data

**Symptoms / routes of exposure:**

**Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate. Severe burns may occur.

**Eye contact:** Corneal burns may occur. May cause permanent damage. There may be severe pain. May cause permanent blindness.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

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

**Other information:** Not applicable.

**12. ECOLOGICAL INFORMATION**

**Toxicity:**

**Ecotoxicity values:** No data available.

**Persistence and degradability:** Biodegradable.

**Bioaccumulative potential:** No bioaccumulation potential.

**Mobility in soil:** Soluble in water.

**Results of PBT and vPvB assessment:**

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

**Other adverse effects:** Negligible ecotoxicity.

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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 453/2010.

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

**Phrases used in s.2 and s.3:** H314: Causes severe skin burns and eye damage.  
R34: Causes burns.

**Legend to abbreviations:** PNEC = predicted no effect level  
DNEL = derived no effect level  
LD50 = median lethal dose  
LC50 = median lethal concentration  
EC50 = median effective concentration  
IC50 = median inhibitory concentration  
dw = dry weight bw = body weight cc =  
closed cup oc = open cup  
MUS = mouse  
GPG = guinea pig  
RBT = rabbit  
HAM = hamster  
HMN = human  
MAM = mammal  
PGN = pigeon  
IVN = intravenous  
SCU = subcutaneous  
SKN = skin  
DRM = dermal  
OCC = ocular/corneal  
PCP = physico-chemical properties

**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.