



# KRONPHOS CP

## Safety Data Sheet

Date of issue: 8/27/2018 Version: 1.0

### 1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY

**Trade name/ Substance name:** CALCIUM PHOSPHATE, KRONPHOS CP  
IUPAC: Calcium HydrogenOrthophosphate

**Type of use:** anticorrosive pigment (solid corrosion inhibitor) for paints.

**Manufacturer**

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### 2. HAZARD IDENTIFICATION

**Classification of the substance or mixture:** none according the CLP regulation 1272/2008/EC and GHS criteria's.

**Danger:** None. Substance not listed in annex VI regulation 1272/2008/EC and (UE) 830/2015.

**Labelling according 1272/2008/EC regulations:** substance not subjected to labelling.

**Other hazards:** none, PBT or vPvB non applicable (inorganic substance).

### 3. COMPOSITION/DATA ON COMPONENTS

**Chemical composition:** Dicalcium phosphate (substance mono-constituent)  
 $\text{CaHPO}_4, x \text{H}_2\text{O}$  x<2 (100%)

**Colour:** White

**CAS N°:** 7757-93-9.

**EINECS N°:** 231-826-1.

**Environmental Risk:** None

### 4. FIRST AID AND MEASURES

**Description of first aid measures:** CAUTION! First aid personnel must be aware of own risk during rescue! Get medical attention if any discomfort continues. Remove contaminated clothing

**Specific measure:** No specific requirements.

**After skin contact:** Wash with mild soap and water until no evidence of substance remains

**After eyes contact :** Immediately flush eyes with water or a standard eye wash solution for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

**Inhalation:** Remove to fresh air. Get medical attention for any breathing difficulty.

**After ingestion:** Rinse mouth thoroughly with water. If large amounts are swallowed, give water to drink and get medical advice.



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**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.

## 5. FIRE FIGHTING MEASURES

This product does not burn or support any combustion.

**Suitable extinguishing means:** No restriction for neighbouring fire.

**Specific hazards arising from the substance:** Not flammable substance. Do not let this substance and its solutions contaminate the environment.

### **Advice for firefighters**

**Special personal protection equipment:** Wear an appropriate air respirator and appropriate equipment.

**Conduct of firefighting:** No specific requirement (not flammable fire retardant). Avoid creating dust under nuisance dust permitted limits. Avoid breathing fire gases or vapours.

**Additional information:** Contaminated residues must be disposed of according to local regulations.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal protective measures:** Avoid contact with skin and eyes. Avoid inhalation of dust. If dusting (upper permitted limits) wear mask with a high-efficiency particulate filter and with a full face-piece. Avoid disperse and walk through spilled on the ground.

**Environmental protection conduct:** Do not discharge into drains or watercourses or onto the ground. Do not sweep or wash in public stretches of water or unknown discharge KRONPHOS CP, in respect with local regulations. To prevent dispersion on the floor and later in the environment, it is recommended to forbid walking on the product spillage. Do not discharge contaminated water in public sewage.

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

**Spill and leak procedure:** Sweep up and keep for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. Small amounts of residue may be flushed to sewer with plenty of water. No special treatments are necessary.

**Soil:** Remove containers from spill area. In large spills, rescue must be in the same direction as the wind and prohibit the formation of dust clouds. Collect spills on the floor; eliminate waste according with national regulations.

**Water:** Not contaminate the environment. Seal the manhole sewer, prohibit access to water contaminated with this product in water systems and contain the water in area water resistant to removal by an authorized company

## 7. HANDLING AND STORAGE

### **Precautions for safe handling:**

**Handling conditions:** Minimise dust formation when handling. Provide adequate ventilation. Avoid inhalation of dust. Avoid handling which leads to dust formation.

**Protection against fire and explosion:** The product is non-flammable. Prevent static electric sparks.

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



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**Storage conditions:** Store under clean, dry conditions at room temperature. Keep containers tightly sealed.

**Material/Chemical incompatibility:** None. However, it is recommended to store this material away from acids alkali and ammonia (solubility in these solvents).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### PROFESSIONAL EXPOSURE CONTROL

**EXPOSURE LIMIT VALUE** (Occupational Exposure Limits) :

**Engineering controls** : no specific exposure limits established for substance (OSHA, ACGIH, NIOSH). Cf §7.

**Parameters of exposure controls** : (VME 8 hours = TWA, TLV= limit valour)

<u>Designation</u> <u>Substance</u>	<u>Type of Data</u>	<u>Unit</u>
Total dust	TWA (USA)	15 mg/m <sup>3</sup> TWA
Respirable fraction	TWA (USA)	5 mg/m <sup>3</sup>

### PERSONAL PROTECTIVE EQUIPMENT:

**Respiratory protection:** Dust mask is necessary while handling the powder. If possible, use a full face piece mask (upper permitted limits) when dust occurs.

**Hand protection:** Use gloves during handling.

**Eye protection:** Safety glasses with side shields (for example EN166).

**Skin protection** : Wear appropriate clothing to avoid any contact with skin.

**Clothing:** Employee must wear appropriate protective (impervious) clothing and equipment to prevent from any possibility of skin contact with this substance,

**Other protective equipment/recommendations:** observe good personal hygiene. Keep away from food stuff, drinks on the site.

### ENVIRONMENT PROTECTIVE MEASURES

**Atmospheric emissions:** No relevant information available.

**Water emissions:** No relevant information available.

**Soil emissions:** No relevant information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state** : very fine powder.

**Density** : 2.7.

**Odor and appearance** : odorless, off white powder.

### Change in physical state

<u>Dehydration</u>	<u>Melting</u>	<u>Decomposition</u>
	> 950°C	none as long as properly used.



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<b>Flash point</b>	: not applicable.
<b>Flammable (solid/gas)</b>	: not applicable.
<b>Explosion risk</b>	: not applicable.
<b>Vapor pressure (20°C)</b>	: not applicable.
<b>Bulk density</b>	: 0.6 – 0.8 g/ml (tapped).
<b>Solubility (water 20°C)</b>	: approximately 0.1 %.
<b>pH of aqueous solution</b>	: 5 - 8 (10 % slurry).
<b>other information</b>	: none
<b>Partition coefficient: n-octanol-water</b>	: not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** Unreactive with respect to materials commonly used in transport, handling and storage of industrial materials

**Chemical stability:** Stable under normal temperature and pressure.

**Possibility of hazardous reactions:** None hazardous reactions if stored and handled in controlled conditions.

**Conditions to avoid:** Keep clear of acids and bases (solubility in these media).

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No hazardous decomposition product in normal storage conditions. This product doesn't polymerise.

## 11. TOXICOLOGICAL PROPERTIES

**Oral toxicity:** LD<sub>50</sub> – lethal dose 50% of test species, >5000 mg/kg, rat.

**Dermal toxicity:** Essentially non-toxic.

### **Potential health effects:**

**Inhalation:** approximately 50% by weight of this product has a particle diameter of less than 7 microns and so is classed as respirable dust. It is not fibrogenic. Excessive levels of dust may lead to coughing. Air contamination limits not listed but the 8-hour TWA limits of 10 mg/m<sup>3</sup> for total dust and 4 mg/m<sup>3</sup> for respirable dust are recommended (EH40).

**Eye effect:** excessive levels of dust may lead to eye irritation.

**Skin corrosion/irritation:** Animal data Not irritating.

**Sensitization:** No sensitizing effects know

### **Toxicity specific target organ:**

- STOT (single exposure): No relevant information available.
- STOT (repeated exposure): No relevant information available.

**Chronic toxicity :** this product doesn't contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogen.

<b>Carcinogenicity</b>	: Human, not classified.	Classification: <b>OSHA:</b> No	<b>NTP:</b> No	<b>IARC:</b> No.
<b>Teratogenicity</b>	: Human, not classified.			
<b>Mutagenicity</b>	: Human, not classified.			
<b>Irritating effect</b>	: Human, not classified.			



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This product is not hazardous for the human being when used properly.

## 12. ECOLOGICAL INFORMATION

**Acute aquatic toxicity:**

Fish:	LC <sub>50</sub> , 96 hours:	>100 mg/l, Fish
Crustacean:	EC <sub>50</sub> , 48 hours:	>100 mg/l, Daphnia magna
Aquatic plants	EC <sub>50</sub> , 72 hours:	> 100 mg/l,
Microorganisms	EC <sub>50</sub> , 3 hours:	>1000 mg/l, Activated sludge

There are no data on the degradability of this product

**Soil toxicity** : No data available

**Mobility** : Do not mix with waste waters.

**Persistence/degradability** : Not bio-degradable. There are no data on the degradability of this product.

### **Behaviour in the environmental compartments**

**Bioaccumulative potential:** Not applicable

**Mobility in soils:** Not applicable

**Results of PBT and vPvB assessment (annex XIII of regulation 1907/2006/EC):** Not applicable because the substance is an inorganic substance.

**Others lasting effects:** Phosphates may create water eutrophication. No further relevant information available.

## 13. DISPOSAL

**Methods of waste treatment:** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Material:** Dispose in accordance with local environmental regulations

\* This preparation does not meet the definition of a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

**Contaminated package and containers:** empty bags can be either destroyed, or recycled according to the international norms that apply.

## 14. TRANSPORT INFORMATION

Product not classified or regulated (chapter 12)

**ADR:** Not regulated. **IMDG:** Not regulated. **IATA:** Not regulated.

## 15. REGULATORY INFORMATION

This substance is not subjected to labelling in accordance with the 67/548/EEC directive and 1272/2008/EC regulation.

**Symbol of danger according to the 1272/2008/EC regulation:** None

**Signal word and hazard statements:** None.

Due to its non hazardous nature, KRONPHOS CP is not subject to any storage restriction. This material is not SEVESO II regulated (EC).



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### 16. FURTHER INFORMATION

**EC:**  
**Preparation/mixture labelling:** This product is not subjected to labelling and classification.  
**Storage:** Due to non-classification KRONPHOS CP is not subjected to any storage restriction rule.

**German WGK Classification:** WGK 1, Self-Classification.

**USA:**  
**NFPA Ratings:** Health **0** - Flammability **0** - Instability **0**  
(National Fire Protection Association Hazard ratings)

**HMIS:** H = 0 - F = 0 - PH = 0.  
(Hazardous Materials Identification System)

**Label Hazard Labelling :**  
∇Caution! Exposure to dust, may cause mechanical irritation to skin, eyes and irritation of respiratory tract.

**Label Precautions :**  
Avoid contact with eyes, skin and clothing.  
Wash thoroughly after handling.  
Avoid breathing dust.  
Keep container closed.  
Use only with adequate ventilation.

**Label First Aid :** If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

**International status of the products included in. of this preparation :**

- **Europ (EC):** REACH Status: Reach pre-registered substance.  
All the components are included in the EINECS.  
This product is compliant with the following directives:
  - ∇RoHS 2 directive (2015/863/UE) for Lead, Cadmium, hexavalent Chromium, Mercury, Diphenylethers Polybrominated, Polybromated Biphenyls and Phtalates: DEHP, BBP, DBP, DIBP.
  - End Life Vehicles (ELV 2000/53/EC)
- **Australia:** Listed in the AICS.  
Australian Hazchem Code : no information found.  
Poison schedule : no information found
- **Canada:** Domestic Substance List (DSL) registered.
- **Japan:** All the components are listed in the MITI.
- **USA:** TSCA registered.
- **South Korea:** ECL/MOE Yes.