

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

Product name : Calcium phosphide

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

According to Regulation (EC) No1272/2008

Substances, which in contact with water, emit flammable gases (Category 1)

Acute toxicity, Oral (Category 2)

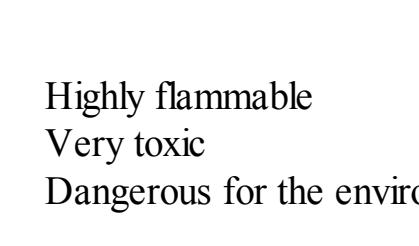
Acute aquatic toxicity (Category 1)

According to European Directive 67/548/EEC as amended.

Contact with water liberates toxic, extremely flammable gas. Very toxic if swallowed. Very toxic to aquatic organisms.

### Label elements

Pictogram



Signal word

Danger

### Hazard statement(s)

H400

Very toxic to aquatic life.

H260

In contact with water releases flammable gases which may ignite spontaneously.

H300

Fatal if swallowed.

EUH029

Contact with water liberates toxic gas.

### Precautionary statement(s)

P223

Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P231 + P232

Handle under inert gas. Protect from moisture.

P264

Wash hands thoroughly after handling.

P273

Avoid release to the environment.

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P370 + P378

In case of fire: Use carbon dioxide for extinction.

### Hazard symbol(s)

F

Highly flammable

T+

Very toxic

N

Dangerous for the environment

### R-phrase(s)

R15/29

Contact with water liberates toxic, extremely flammable gas.

R28

Very toxic if swallowed.

R50

Very toxic to aquatic organisms.

### S-phrase(s)

S22

Do not breathe dust.

S43

In case of fire, use dry powder. Never use water.

S45

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S61

Avoid release to the environment. Refer to special instructions/ Safety data sheets.

### Other hazards - none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : Ca3P2

Molecular Weight : 182,18 g/mol

CAS-No.	EC-No.	Classification	Concentration
1305-99-3	215-142-0	Water-react 1; Acute Tox. 2; Aquatic Acute 1; H400, H260, H300, EUH029 F, T+, N, R15/29 - R28 - R50	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Carbon dioxide (CO2) Dry powder

### Extinguishing media which shall not be used for safety reasons

Water

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Do not flush with water. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking.

### Conditions for safe storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Reacts violently with water. Handle and store under inert gas.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves.

#### Eye protection

Face shield and safety glasses

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form : granules

### Safety data

pH : no data available

Melting point : no data available

Boiling point : no data available

Flash point : not applicable

Ignition temperature : no data available

Lower explosion limit : no data available

Upper explosion limit : no data available

Water solubility : no data available

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Conditions to avoid

Heat, flames and sparks.

### Materials to avoid

Forms shock-sensitive mixtures with certain other materials., Oxidizing agents, Chlorine, Oxygen, Sulphur compounds

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Oxides of phosphorus, Calcium oxide

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

no data available

### Reproductive toxicity

no data available

### Specific target organ toxicity - single exposure

no data available

### Specific target organ toxicity - repeated exposure

no data available

### Potential health effects

no data available

#### Aspiration hazard

no data available

#### Potential health effects

no data available

#### Potential health effects</h