

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 H260	Very toxic to aquatic life. In contact with water releases flammable gases which may ignite spontaneously.
H300 EUH029	Fatal if swallowed. 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 P264 P273 P301 + P310	Handle under inert gas. Protect from moisture. Wash hands thoroughly after handling. Avoid release to the environment. 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 T+ N	Highly flammable Very toxic Dangerous for the environment
R-phrases(s) R15/29 R28 R50	Contact with water liberates toxic, extremely flammable gas. Very toxic if swallowed. Very toxic to aquatic organisms.
S-phrases(s) S22 S43 S45	Do not breathe dust. In case of fire, use dry powder. Never use water. 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
Calcium phosphide 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

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be fatal if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

Signs and Symptoms of Exposure

Cough, Shortness of breath, Headache, Nausea, Vomiting, sweating, Ataxia., Convulsions, Diarrhoea

Additional Information

RTECS: no data available

12. ECOLOGICAL INFORMATION

Toxicity

no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

Very toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID

UN-Number: 1360 Class: 4.3 (6.1) Packing group: I
Proper shipping name: CALCIUM PHOSPHIDE

IMDG

UN-Number: 1360 Class: 4.3 (6.1) Packing group: I EMS-No: F-G, S-N
Proper shipping name: CALCIUM PHOSPHIDE

Marine pollutant: No

IATA

UN-Number: 1360 Class: 4.3 (6.1) Packing group: I
Proper shipping name: Calcium phosphide

IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. OTHER INFORMATION

Text of H-code(s) and R-phrases(s) mentioned in Section 3

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
EUH029	Contact with water liberates toxic gas.
H260	In contact with water releases flammable gases which may ignite spontaneously.
H300	Fatal if swallowed.
H400	Very toxic to aquatic life.
Water-react	Substances and mixtures, which in contact with water, emit flammable gases
F	Highly flammable
N	Dangerous for the environment
T+	Very toxic
R15/29	Contact with water liberates toxic, extremely flammable gas.
R28	Very toxic if swallowed.
R50	Very toxic to aquatic organisms.

Further information

For R&D use only. Not for drug, household or other uses.

WARRANTY:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.