



#### 1 - Product

Product Name: CALCIUM HYPOPHOSPHITE

Product Number 21176

#### 2 - Composition/Information on

Ingredients Product Name CAS # EC no

Annex I Index Number

CALCIUM HYPOPHOSPHITE 7789-79-9 232-190-8

None Formula  $\text{Ca}_2\text{H}_3\text{O}_2\text{P}$

Molecular Weight 170.1 AMU

#### 3 - Hazards Identification

**SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT** Highly flammable.

#### 4 - First Aid Measures

##### AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. **AFTER SKIN CONTACT**

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

##### AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

##### AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

#### 5 - Fire Fighting Measures

##### EXTINGUISHING MEDIA

Suitable: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

##### SPECIAL RISKS

**Specific Hazard(s):** Flammable solid. Emits toxic fumes under fire conditions.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**6 - Accidental Release Measures**

**PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL**

Evacuate area. Shut off all sources of ignition. Use nonsparking tools.

**PROCEDURE(S) OF PERSONAL PRECAUTION(S)**

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

**METHODS FOR CLEANING UP**

Avoid raising dust. Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

**7 - Handling and**

**Storage HANDLING**

Directions for Safe Handling: Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Avoid prolonged or repeated exposure.

**STORAGE**

Conditions of Storage: Keep container closed. Keep away from heat, sparks, and open flame.

**8 - Exposure Controls / Personal**

**Protection ENGINEERING CONTROLS**

Safety shower and eye bath. Use nonsparking tools. Mechanical exhaust required.

**GENERAL HYGIENE MEASURES** Wash

thoroughly after handling. **PERSONAL**

**PROTECTIVE EQUIPMENT**

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

**9 - Physical and Chemical Properties**

Appearance Physical State: Solid

Page 2 Color: White

Form: Powder

Property Value At Temperature or

Pressure pH N/A

BP/BP Range N/A

**MP/MP Range N/A Flash  
Point N/A Flammability  
N/A Autoignition Temp  
N/A Oxidizing Properties  
N/A Explosive Properties  
N/A Explosion Limits N/A  
Vapor Pressure N/A  
SG/Density N/A Partition  
Coefficient N/A Viscosity  
N/A Vapor Density N/A  
Saturated Vapor Conc.  
N/A Evaporation Rate  
N/A Bulk Density N/A  
Decomposition Temp.  
N/A Solvent Content N/A  
Water Content N/A  
Surface Tension N/A  
Conductivity N/A  
Miscellaneous Data N/A  
Solubility N/A**

**10 - Stability and  
Reactivity STABILITY**

**Conditions of Instability: May decompose on heating  
Conditions to Avoid: Do not heat above melting point.  
Materials to Avoid: Potassium chlorate, Oxidizing agents.  
HAZARDOUS DECOMPOSITION PRODUCTS Hazardous  
Decomposition Products: Phosphine, Calcium oxide,  
Thermal decomposition may produce toxic fumes of phosphorus  
oxides and/or phosphine.**

**HAZARDOUS POLYMERIZATION  
Hazardous Polymerization: Will not  
occur 11 - Toxicological Information  
ROUTE OF EXPOSURE**

**Skin Contact: May cause skin irritation.  
Skin Absorption: May be harmful if absorbed through the  
skin. Eye Contact: May cause eye irritation.  
Inhalation: Material may be irritating to mucous  
membranes and upper respiratory tract. May be harmful if  
inhaled. Ingestion: May be harmful if swallowed.**

**12 - Ecological Information  
No data available.**

**13 - Disposal Considerations  
SUBSTANCE DISPOSAL**

**Contact a licensed professional waste disposal service to dispose of  
this material. Burn in a chemical incinerator equipped with an  
afterburner and scrubber but exert extra care in igniting as this**

material is highly flammable. Observe all federal, state, and local environmental regulations.

**14 - Transport  
Information RID/ADR**

**UN#: 3180**

**Class: 4.1**

**PG: II**

**Kemmler Number:**

**48 Subrisk: 8**

**Proper Shipping Name: Flammable solid,  
corrosive, inorganic, n.o.s.**

**IMDG**

**UN#: 3180**

**Class: 4.1**

**PG: II**

**Subrisk: 8**

**Proper Shipping Name: FLAMMABLE SOLID,  
CORROSIVE, INORGANIC, N.O.S.**

**Marine Pollutant: No**

**Severe Marine Pollutant:**

**No Technical Name:**

**Required IATA**

**UN#: 3180**

**Class: 4.1**

**PG: II**

**Subrisk: 8**

**Proper Shipping Name: Flammable solid,  
corrosive, inorganic, n.o.s.**

**Inhalation Packing Group I:**

**No Technical Name: Required**

**15 - Regulatory Information**

**CLASSIFICATION AND LABELING ACCORDING TO EU  
DIRECTIVES INDICATION OF DANGER: F**

**Highly Flammable.**

**R-PHRASES: 11**

**Highly flammable.**

**COUNTRY SPECIFIC  
INFORMATION Germany**

**WGK: 3 Self-**

**Classification 16 -**

**Other Information**

**WARRANTY**

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