

**CAS No: 7440-70-2** Elemental Calcium  
**RTECS No: EV8040000** Ca  
**UN No: 1401;** Atomic mass: 40.1  
 1855 (calcium pyrophoric)  
**EC No: 020-001-00-X**

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Not combustible but forms flammable gas on contact with water or damp air. Highly flammable when finely divided. Forms flammable gas on contact with water or damp air. Many reactions may cause fire or explosion.	NO open flames, NO sparks, and NO smoking. NO contact with water and incompatible substances (see Chemical Dangers).	Special powder, dry sand, NO other agents. NO water.
<b>EXPLOSION</b>	Risk of fire and explosion on contact with water and incompatible substances (see Chemical Dangers).		In case of fire: cool drums, etc., by spraying with water but avoid contact of the substance with water.

EXPOSURE		PREVENT DISPERSION OF DUST!	
<b>Inhalation</b>		Avoid inhalation of fine dust and mist.	Fresh air, rest. Refer for medical attention.
<b>Skin</b>		Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
<b>Eyes</b>	Redness. Pain.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>		Do not eat, drink, or smoke during work.	Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Remove all ignition sources. Sweep spilled substance into containers. Do NOT wash away into sewer. Carefully collect remainder, then remove to safe place. Do NOT absorb in saw-dust or other combustible absorbents (extra personal protection: complete protective clothing including self-contained breathing apparatus).	<p>F Symbol                      R: 15                      S: (2-)8-24/25-43                      UN Hazard Class: 4.3;                      4.2 (calcium pyrophoric)                      UN Pack Group: II;                      I (calcium pyrophoric)</p> <p>Airtight. Unbreakable packaging; put breakable packaging into closed unbreakable container.</p>

EMERGENCY RESPONSE	STORAGE
Transport Emergency Card: TEC (R)-43G12; 42G13 (pyrophoric) NFPA Code: H1; F1; R2; W	Fireproof. Separated from incompatible substances (see Chemical Dangers). Dry. Keep under inert gas. Keep under petroleum oil.

**IMPORTANT DATA****Physical State; Appearance**

LUSTROUS SILVER WHITE METAL (WHEN FRESHLY CUT);  
TURNS BLUISH GREY ON EXPOSURE TO MOIST AIR.

**Physical Dangers**

Ignites in air when finely divided.

**Chemical Dangers**

Reacts with water, alcohol diluted acids with evolution of highly flammable hydrogen gas. Reacts with halogens. Burns in air. Contact with alkali hydroxides or carbonates may cause detonation.

**Occupational Exposure Limits**

TLV not established.

**Effects of Short-term Exposure**

The substance irritates the eyes.

**PHYSICAL PROPERTIES**

Boiling point: 1440°C  
Melting point: 850°C

Relative density (water = 1): 1.54  
Solubility in water: reaction

**ENVIRONMENTAL DATA****NOTES**

Reacts violently with fire extinguishing agents such as water, foam, halons and carbon dioxide. Do NOT take working clothes home.

**ADDITIONAL INFORMATION****LEGAL NOTICE**

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information