

Material Safety Data Sheet / Safety Data sheet

Calcium Carbide

Section 1: Chemical Product Identifier and Synonyms

Product Name: Calcium Carbide

UN Number: 1402

CAS Number: 75-20-7

Chemical Formula: CaC₂

Section 2: Composition and Information on Ingredients

Composition

Name	CAS Number:	% By Weight
Calcium Carbide	75-20-7	100%

Toxicology Data On Ingredients: Calcium Carbide LD50: Not Available. LC50: Not Available

Section 3: Hazards Identification

Potential Acute Health Effects:

May cause skin irritation. May cause serious eye damage. May cause damage to respiratory system.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.

Section 4: First Aid Measures

Eye Contact:

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

Skin Contact:

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

Inhalation:

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

Ingestion:

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

Section 5: Fire and Explosion Data

Flammability of the Product: This product is not flammable.

Auto-Ignition Temperature: 390 °C

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances: Not available.

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Suitable fire extinguishing media: Dry powder. Wear self-contained breathing apparatus for firefighting if necessary.

Special Remarks on Fire Hazards: Calcium oxide.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures**Small Spill:**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Large Spill:

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Do not flush with water. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage**Precautions:**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition.

No smoking.

Storage:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Never

allow product to get in contact with water during storage. Store under inert gas. Moisture sensitive. Reacts violently with water. Handle and store under inert gas.

Section 8: Exposure Controls / Personal Protection

Engineering Controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protection:

Safety glasses. Gloves. Protective clothing. Dust production: dust mask with filter.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Small or Large Lumps.

Odour: Not available.

Taste: Not available.

Molecular Weight: 64.10 g/mole

Colour: Not available.

pH (1% soln/water): 12,48 at 20 g/l

Boiling Point: Not available.

Melting Point: 2.300 °C

Critical Temperature: Not available.

Specific Gravity: Not available. (Water = 1)

Vapour Pressure: Not available.

Vapour Density: Not available.

Volatility: Not available.

Odour Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Not available.

Section 10: Stability and Reactivity Data

Stability: Stable under recommended storage conditions.

Instability Temperature: Not available.

Conditions of Instability: Exposure to moisture.

Incompatibility with various substances: Strong oxidizing agents, Reacts violently with water.
Special Remarks on Reactivity: Not available.
Special Remarks on Corrosivity: Not available.
Polymerization: Not available.

Section 11: Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.
Toxicity to Animals: (LD50): Not available. LC50: Not available.
Chronic Effects on Humans: Not available.
Other Toxic Effects on Humans: Not available.
Special Remarks on Toxicity to Animals: Not available.
Special Remarks on Chronic Effects on Humans: Not available.
Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.
BOD5 and COD: Not available.
Products of Biodegradation: Not available.
Toxicity of the Products of Biodegradation: Not available.
Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Information

Waste Disposal: Dispose of in accordance with local regulations

Section 14: Transport Information

DOT Classification: Class: 4.3: Substances high in contact with water emit flam
Identification: Calcium Carbide UN Number: 1402 PG: I
Special Provisions for Transport: Not available.

Section 15: Regulatory Information

Regulations: Labelling according to Regulation (EC) No 1272/2008.

Section 16: Other Information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our

knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials. The author will not be held liable for any damage or injury caused by this product and does not obviate the requirement for end users to carry out their own workplace and specific use risk assessment.

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