

SAFETY DATA SHEET

SECTION 1: PRODUCTS IDENTIFICATION

Product Name: Calcium Carbide

CAS-No.: 75-20-7

EC-No. : 200-848-3

Molecular Formula: CaC₂

Product Use: mainly used to produce acetylene,desulfurization

Name,address and contact information of the manufacturer or supplier:

INNER MONGOLIA MENGHUA CHEMICALS CO., LTD

NO.407 MANDUHAI ROAD,ALASHAN HIGH-TECH INDUSTRIAL PARK,INNER MONGOLIA,CHINA

Emergency telephone number : +86 400 086 0473

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture: Substances and mixtures which, in contact with water, emit flammable gases Category 2,Skin corrosion/irritation Category 1,Serious eye damage/eye irritation Category 1.

GHS Label elements:



Signal Words: Danger

Hazard Statements: In contact with water releases flammable gases which may ignite spontaneously. Causes skin irritation.Causes serious eye damage. May cause respiratory irritation.

Precautionary Statements: Keep away from any possible contact with water, because of violent reaction and possible flash fire. Handle under inert gas. Protect from moisture. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances:

Component	CAS-No.	Content %
Calcium Carbide	75-20-7	85
Calcium	7440-70-2	5
Carbon	7440-44-0	5
Impurities		5

SECTION 4: FIRST AID MEASURES

If inhaled: If breathed in, move person into fresh air, Keep respiratory tract unobstructed. If difficulty in breathing, give oxygen, If breathing stops, perform artificial respiration immediately. Get medical help.

In case of skin contact: Take off contaminated clothing,Wash off with soap and plenty of water. Get medical help. Contaminated clothes can be washed before reuse.

In ease of eye contact: Lift the eyelids and rinse thoroughly with plenty of water for at least 15 minutes, Get medical help.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Do not induce

vomiting, Get medical help.

SECTION 5: FIREFIGHTING MEASURES

Suitable Extinguishing Media: Use dry powder, dry sand to extinguish fire.

Special hazards arising from the substance or mixture: Generates carbon dioxide and carbon monoxide during combustion. Contact with water liberates toxic gas. Water reactive. Produce flammable gases on contact with water. **Advice for Firefighters:** Firefighters are required to wear self-priming respirators, wear full-body firefighting suits, extinguish fires in the upwind direction. Move containers from the fire to open areas whenever possible.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

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

Environmental precautions: Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Do not let this chemical enter the environment. Do not expose spill to water. Avoid dust formation.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe dust. Do not ingest. Keep under nitrogen. Remove all sources of ignition. Do not allow contact with water. Minimize dust generation and accumulation. Wash hands before breaks and immediately after handling the product. **Conditions for safe storage, including any incompatibilities:** Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Never allow product to get in contact with water during storage. Keep under nitrogen.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Allowable concentration: No standard

Engineering control: Adequate explosion-proof ventilation equipment and local exhaust ventilation equipment need to be assembled. Eye wash and safety showers are nearby.

Eye protection: Wear chemical safety eye shields and protective masks.

Hand protection: Wear chemically resistant, impervious gloves.

Body protection: Wear protective clothing and anti static shoes.

Respiratory protection: Use appropriate respiratory protective equipment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Grey/Black

Physical State: Solid/Granula

Boiling Point/Range 2300 °C / 4172 °F

PH value: Not available

Relative density (water = 1): 2.22

Vapor density (air = 1): No data available

Ignition temperature (°C): No data available

Upper explosion limit% (V / V): No data available

Combustion heat (kg / mo1): No data available

Flash point (°C): No data available

Water-solubility: Decomposition

Molecular formula: CaC2

Molecular weight: 64.099

Viscosity: Not available

Melting point (°C): 447

Lightning (°C): Not available

Lower explosion limit% (V / V): No data available

Vapor pressure (Pa): No data available

Critical pressure (m Pa): No data available

Solubility: No data available

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use and storage.

Incompatible materials: water, alcohols, acids.

Avoid contact conditions: humid air.

Hazardous Polymerization: No data available.

Hazardous decomposition products: No data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute poison: No data available

Subacute and chronic toxicity: No data available

Irritant: No data available

Sensitization: No data available

Mutagenic: No data available

Teratogenicity: No data available

Carcinogenicity: No data available

SECTION 12: ECOLOGICAL INFORMATION

Biological toxicity: No data available

Persistence and degradability: No data available

Potential bio accumulation: No data available

Mobility in soil: No data available

Other adverse effects: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

In accordance with the local environmental protection department under the disposal of the product containers, waste packaging and residues. Consult a professional waste disposal company proposal. Decontaminate empty containers. Waste shipments must be securely packed, properly labeled, and documented.

SECTION 14: TRANSPORT INFORMATION

UN number: 1402

UN proper shipping name: Calcium Carbide

Transport hazard class: 4.3

Packing group: II

Hazard label:



Marine Pollutants (Yes / No): No

Special precautions related to transportation or means of transport:

The packaging must be intact at the time of shipment. Loading should be secure. During transportation, ensure that the container leaks, does not collapse, does not fall, and is not damaged. It is strictly prohibited to mix and transport with strong oxidants. During transportation, it should be protected from direct sunlight, rain and high temperature. Transport vehicles and vessels must be thoroughly cleaned and disinfected. Otherwise, no other items may be shipped.

SECTION 15: REGULATORY INFORMATION

"Regulations on the Safety Management of Dangerous Chemicals" (Order No. 591 of the State Council), effective December 1, 2011; Regulations on Work Safety Licenses (adopted at the 34th Executive Meeting of the State Council on January 7, 2004); Safety of the People's Republic of China Production Law (adopted at the 28th Session of the Ninth NPC Standing Committee on June 29, 2002); Law on Occupational Disease Prevention and Control of the People's Republic of China (24th Session of the Ninth NPC Standing Committee on October 27, 2001 (Passed by the meeting); Environmental Protection Law of the People's Republic of China (adopted at the first trial meeting of the Standing Committee of the Seventh National People's Congress on December 26, 1989); "Regulations on the Administration of the Transport of Dangerous Goods" (promulgated by the Ministry of Railways in 1995); 2007. Occupational Exposure Limits for Hazardous Factors in the Workplace Chemical Hazardous Factors;United Nations Recommendations on the Transport of Dangerous Goods. Model Regulations; United Nations Global Unified Classification and Labeling of Chemicals: GB / T16483-2008. Chemical safety data sheet content and item sequence; "Dangerous Chemicals List 2015".

SECTION 16: OTHER INFORMATION

References: Globally Harmonized System of Classification and Labeling of Chemicals (GHS) (Eleventh revised edition).Recommendations on the Transport of Dangerous Goods ,Model Regulations (TDG) (Twenty-third revised edition). International Chemical Safety Card (Chinese version).

Revision Date: 10.10,2025

Note:

1. When the product is a mixture containing two or more hazardous substances, a safety data sheet should be prepared based on the hazards of the mixture.
2. The manufacturer / supplier shall ensure the correctness of the information contained in the safety data sheet according to the actual situation and update it in due course.
3. When using this SDS, users should fully consider the risk results of chemicals under specific conditions of use and take necessary precautions.
- 4.This SDS is the test report Copyright by Inner Mongolia Menghua Chemicals Co., Ltd,
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