



Please enter CAS NO., Product Name, Formula

Search

Batch Search

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Structure Search Supplier List

 Add to Bookmark

carbo

CAS No.: 7782-42-5

Synonyms:

Formula: CH₄

Exact Mass: 16.03130

Molecular Weight: 16.04250

PSA: 0.00000

LogP: 0.63610

Reference Price: \$58/kg Inquiry Now

Recommended Substances

Shan
hemi
Purity
Leadxia m
o xi j
Purity
LeadDong
Silico
Purity
Leadnan j
ji gu
Purity
Leadjiang
n she
Purity
Lead Overview

Properties

Synthesis Route

Precursor and ...

Safety Info

MSDS

NMR Spectrum 

carbo 7782-42-5 MSDS

Name: Graphite Powder Material Safety Data Sheet

Synonym: Black lead; crystallized carbon; mineral carbon; plumbago; CI 77265

CAS: 7782-42-5

Section 1 - Chemical Product

MSDS Name: Graphite Powder Material Safety Data Sheet

Synonym: Black lead; crystallized carbon; mineral carbon; plumbago; CI 77265

Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
7782-42-5	GRAPHITE	>99	231-955-3

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

Section 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Not available.

Potential Health Effects

Eye:

Causes eye irritation. May cause conjunctivitis.

Skin:

May cause skin irritation.

Ingestion:

Ingestion of large amounts may cause gastrointestinal irritation.

Inhalation:

Dust is irritating to the respiratory tract.

Chronic:

Prolonged exposure to respirable crystalline quartz may cause delayed lung injury/fibrosis (silicosis).

Section 4 - FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Section 5 - FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dust can be an explosion hazard when exposed to heat or flame. Can be easily ignited and burns vigorously.

Extinguishing Media:

For small fires, use water spray, dry chemical, carbon dioxide or chemical foam. Use water spray to cool fire-exposed containers.

Section 6 - ACCIDENTAL RELEASE MEASURES**General Information:** Use proper personal protective equipment as indicated in Section 8.**Spills/Leaks:**

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions.

Section 7 - HANDLING and STORAGE**Handling:**

Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage:

Keep away from sources of ignition. Store in a cool, dry place.

Store in a tightly closed container. Keep from contact with oxidizing materials.

Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 7782-42-5: United Kingdom, WEL - TWA: 10 mg/m³ TWA (inhalable dust); 4 mg/m³ (respirable dust) United Kingdom, WEL - STEL: 30 mg/m³ STEL (inhalable dust); 12 mg STEL (respirable dust) Belgium - TWA: 2 mg/m³ VLE (respirable fraction) France - VME: 2 mg/m³ VME (inhalable fraction) Japan: 0.5 mg/m³ OEL (respirable dust); 2 mg/m³ OEL (total dust) Malaysia: 2 mg/m³ TWA (all forms except graphite fibres, respirable fraction) Netherlands: 2 mg/m³ MAC (respirable dust) Spain: 2 mg/m³ VLA-ED (dust) CAS# 14808-60-7: United Kingdom, WEL - TWA: (listed as silica, crystalline (genera form)): 0.3 mg/m³ TWA (respirable) United Kingdom, WEL - STEL: (listed as silica, crystalline (genera form)): 0.9 mg/m³ STEL (respirable) Belgium - TWA: 0.1 mg/m³ VLE (respirable dust) France - VME: 0.1 mg/m³ VME (listed under silica crystallines) Germany: 0.15 mg/m³ TWA (respirable fraction) Malaysia: 0.1 mg/m³ TWA (respirable fraction) Netherlands: 0.075 mg/m³ MAC (respirable dust) Russia: 1 mg/m³ TWA Spain: 0.1 mg/m³ VLA-ED (respirable fraction) Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to minimize contact with skin.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Color: green, blue, steel gray or black

Odor: odorless

pH: Not available.

Vapor Pressure: Negligible.

Viscosity: Not applicable.

Boiling Point: 7592 deg F

Freezing/Melting Point: 6606-6687F

Autoignition Temperature: 1346 deg F (730.00 deg C)

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: Not available.

Solubility in water: Insoluble in water.

Specific Gravity/Density: 2.09-2.25

Molecular Formula: C

Molecular Weight: 12

Section 10 - STABILITY AND REACTIVITY**Chemical Stability:**

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, ignition sources, dust generation, moisture, excess heat.

Incompatibilities with Other Materials:

May react vigorously or violently when mixed with strong oxidizing agents such as chlorates, bromates and nitrates, especially when heated. Incompatible with chlorinated paraffins, Lead oxide, manganese oxide, iron oxide, liquid oxygen, oils, and moisture. .

chlorinetrifluoride, fluoride and potassium superoxide. Reacts at 300C with potassium, sodium, rubidium and cesium to give intercalation compounds. These compounds ignite in air and may react explosively with water.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide.
Hazardous Polymerization: Has not been reported.

Section 11 - TOXICOLOGICAL INFORMATION

RTECS#: CAS# 7782-42-5: MD9659600 CAS# 14808-60-7: VV7330000 LD50/LC50:
Not available.
Not available.
Carcinogenicity:
GRAPHITE - Not listed by ACGIH, IARC, or NTP.
Quartz - ACGIH: A2 - Suspected Human Carcinogen California: carcinogen, initial date 10/1/88 (airborne particles of re NTP: Known carcinogen (listed as Silica, crystalline (general f IARC: Group 1 carcinogen Other:
See actual entry in RTECS for complete information.

Section 12 - ECOLOGICAL INFORMATION

Section 13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

Section 14 - TRANSPORT INFORMATION

IATA
Shipping Name: Not regulated.
Hazard Class:
UN Number:
Packing Group:
IMO
Shipping Name: Not regulated.
Hazard Class:
UN Number:
Packing Group:
RID/ADR
Shipping Name: Not regulated.
Hazard Class:
UN Number:
Packing group:

Section 15 - REGULATORY INFORMATION

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: Not available.
Risk Phrases:
Safety Phrases:
WGK (Water Danger/Protection)
CAS# 7782-42-5: 0
CAS# 14808-60-7: No information available.
Canada
CAS# 7782-42-5 is listed on Canada's DSL List.
CAS# 14808-60-7 is listed on Canada's DSL List.
CAS# 7782-42-5 is not listed on Canada's Ingredient Disclosure List.
CAS# 14808-60-7 is listed on Canada's Ingredient Disclosure List.
US FEDERAL
TSCA
CAS# 7782-42-5 is listed on the TSCA inventory.
CAS# 14808-60-7 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

N/A

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