**QUALIKEMS FINE CHEM PVT. LTD.**
**5531,BASTI HARPHOOL SINGH,SADAR THANA ROAD,DELHI-06.**

Material Safety Data Sheet
Charcoal

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Charcoal
**Synonyms:** Snythetic graphite; Acetylene black; Black pearls; Carbon, activated.

## Section 2 - Composition, Information on Ingredients

| CAS# | Chemical Name | Percent | EINECS/ELINCS |
|---|---|---|---|
| 7440-44-0 | Carbon | 100.0 | 231-153-3 |

## Section 3 - Hazards Identification

**EMERGENCY OVERVIEW**

Appearance: black.
**Warning!** Flammable solid. May cause eye irritation. May cause lung damage.
**Target Organs:** Lungs.

**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. May cause lung damage.
**Chronic:** Chronic inhalation may lead to decreased pulmonary function.

## 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. Wash clothing before reuse.
**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:** Treat symptomatically and supportively.

## 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. Use water spray to keep fire-exposed containers cool. Dust can be an explosion hazard when exposed to heat or flame. Flammable solid. Can be easily ignited and burns vigorously. Containers may explode if exposed to fire.
**Extinguishing Media:** For large fires, use water spray, fog or alcohol-resistant foam. For small fires, use dry chemical, carbon dioxide, sand, earth, water spray or regular foam. Cool containers with flooding quantities of water until well after fire is out.
**Flash Point:** Not applicable.
**Autoignition Temperature:** 230 deg C ( 446.00 deg F)
**Explosion Limits, Lower:**N/A
**Upper:** N/A
**NFPA Rating:** (estimated) Health: 1; Flammability: 2; Instability: 0

## 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. Avoid generating dusty conditions. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation.

## Section 7 - Handling and Storage

**Handling:** Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.
**Storage:** Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Keep from contact with oxidizing materials. Flammables-area.

## 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**

| Chemical Name | ACGIH | NIOSH | OSHA - Final PELs |
|---|---|---|---|
| Carbon | none listed | none listed | none listed |

**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.

## Section 9 - Physical and Chemical Properties

**Physical State:** Solid
**Appearance:** black
**Odor:** Odorless.
**pH:** Not available.
**Vapor Pressure:** 1 mm Hg @ 3586C
**Vapor Density:** Not available.
**Evaporation Rate:**Negligible.
**Viscosity:** Not available.
**Boiling Point:** Sublimes @ 3652 deg C
**Freezing/Melting Point:**3652 deg C
**Decomposition Temperature:**Not available.
**Solubility:** Insoluble.
**Specific Gravity/Density:**1.8-2.1
**Molecular Formula:**C
**Molecular Weight:**12

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.
**Conditions to Avoid:** 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, expecially when heated. Incompatible with chlorinated paraffins, Lead oxide, manganese oxide, iron oxide, liquid oxygen, oils, and moisture.
**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide.
**Hazardous Polymerization:** Has not been reported.

## Section 11 - Toxicological Information

**RTECS#:**
**CAS#** 7440-44-0: FF5250100
**LD50/LC50:**
Not available.

**Carcinogenicity:**
CAS# 7440-44-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information available.
**Teratogenicity:** No information available.
**Reproductive Effects:** No information available.
**Mutagenicity:** No information available.
**Neurotoxicity:** No information available.
**Other Studies:**

## Section 12 - Ecological Information

**Ecotoxicity:** No data available. No information available.
**Environmental:** Particulates settle out of atmosphere and water.

**Physical:** No information available.
**Other:** No information available.

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
**RCRA P-Series:** None listed.
**RCRA U-Series:** None listed.

## Section 14 - Transport Information

| | IATA | |
|---|---|---|
| **Shipping Name:** | CHARCOAL | |
| **Hazard Class:** | 4.2 | |
| **UN Number:** | NA1361 | |
| **Packing Group:** | III | |

## Section 15 - Regulatory Information

**Hazard Symbols:**
F
**Risk Phrases:**
R 11 Highly flammable.
**Safety Phrases:**
S 24/25 Avoid contact with skin and eyes.

## Section 16 - Additional Information

**MSDS Creation Date:** 1/23/2000
**Revision #2 Date:** 10s/08/2004
**Revision #3 Date:** 09/08/2009
**Revision #4 Date:** 08/08/2014
**Revision #5 Date:** 07/08/2019
**Revision #6 Date:** 06/08/2024