



ARIHANT CHEMICAL CORPORATION & J.J ENTERPRISE

For paints / inks / plastic / Rubber industries Raw material available with us under self import / Manufacturing / Trading.

SAFETY DATA SHEET OF CARBON BLACK

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name: CARBON BLACK

Product Code: CB

Synonyms: Carbon Black, Furnace Black (Mineral Origin)

This SDS valid for the following grades:

ASTM NAME	INDUSTRIAL NAME	TRADE NAME
N330	HAF	V3
N326	HAF_LS	R300
N220	ISAF	V6
N339	N339	VM
N234	N234	V7H
N660	GPF	SV
N550	FEF	SSO
N650	GPF_HS	SVH
N762	SRF	SNS
N774	SRF	SNS1

Use of the Substance/Preparation: Industrial Products, Various

Supplier: M/S Arihant Chemical Corporation

Tel: 24146390 /24146390

E-mail: info@arihantchemcorp.com

Regd Off: - Plot no 24 Block no .5, 1st floor, Behind Aurora cinema , opp Sahakari bhandar, Matunga (C.R) Mumbai – 400019

Administration /correspondence Office :- Plot No. 319,Room No.3, Ranchoddas Terrace building ,sir Bhalchandra Road, opp Hira House, Near Chhatre Maternity Hospital, Matunga (C.R) Mumbai – 400019
Tel :- +91 22 24148378 / 24146390

Mob :- MR NILESH MEHTA +91 9820142066 / +91 8850378208/+91 9029042066

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name CAS Number EINECS Number Weight % Classification
Carbon Black 1333 - 86 - 4 215 - 609 - 9 100 None

3. HAZARDS IDENTIFICATION

Indication of Danger Not a hazardous substance or preparation according to Manufacture Storage & Import of Hazardous Chemicals Rules-1989 and their various amendments and adaptations.
Principle Routes of Exposure: Inhalation, Eye contact, Skin contact

POTENTIAL HEALTH EFFECTS

Eye Contact: May cause mechanical irritation Irritating, but will not permanently injure eye tissue.

Low hazard for usual industrial or commercial handling.

- **Skin Contact:** No adverse effects expected
- **Inhalation:** Dust may be irritating to respiratory tract
Provide appropriate exhaust ventilation at machinery and at places where dust can be generated
See also Section 8
- **Ingestion:** Health injuries are not known or expected under normal use. Low hazard for usual industrial or commercial handling.

- **Carcinogenic Effects:** Substance listed by IARC (International Agency for Research on Cancer), See also

Target Organ Effects: Lungs

Medical Conditions Aggravated Asthma, Respiratory disorder by Exposure:

Potential Environmental Effects: No special environmental precautions required See also

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4. FIRST AID MEASURES

Skin Contact: Wash thoroughly with soap and water.

Eye Contact: Flush eyes immediately with large amounts of water for 15 minutes. Seek medical attention if redness, swelling, itching, burning or visual disturbances occur.

Inhalation: If cough, shortness of breath or other breathing problems occur, move to fresh air. Seek medical attention if symptoms persist. If necessary, restore normal breathing through standard first aid measures.

Ingestion: Do not induce vomiting. If conscious, give several glasses of water. Never give anything by mouth to an unconscious person.

Notes to Physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing Media:

Use foam, carbon dioxide (CO₂), dry chemical or water spray. A fog is recommended if water is used. A fog spray is recommended if water is used. DO NOT USE a solid water stream as it may scatter and spread fire.

Special Protective Equipment for Firefighters

Wear suitable protective equipment. In the event of fire, wear self-contained breathing apparatus.

Specific Hazards:

It may not be obvious that carbon black is burning unless the material is stirred and sparks are apparent. Carbon black that has been on fire should be observed closely for at least 48 hours to ensure no smoldering material is present. Burning produces irritant fumes. The product is insoluble and floats on water. If possible, try to contain floating material. This material creates a fire hazard because it floats on water.

Hazardous Combustion Products:

Carbon monoxide, carbon dioxide, Oxides of Sulphur

Risk of Dust Explosion:

Do not create a dust cloud by using a brush or compressed air.

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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

CAUTION: Wet carbon black produces slippery walking surfaces. Avoid dust formation. Ensure adequate ventilation. Use personal protective equipment. See also Section 8.

Methods for Cleaning Up:

Clean up promptly by vacuum. Use of a vacuum with high efficiency particulate air (HEPA) filtration is recommended. Do not create a dust cloud by using a brush or compressed air. Pick up and transfer to properly labelled containers. See Section 13.

Environmental Precautions:

Do not allow material to contaminate ground water system. The product is insoluble and floats on water. If possible, try to contain floating material. Local authorities should be advised if significant spillage cannot be contained.

7. HANDLING AND STORAGE

- **Handling:**

Do not breathe dust. Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Do not create a dust cloud by using a brush or compressed air. Take precautionary measures against static discharge. Keep away from heat and sources of ignition. All metal parts of the mixing and processing equipment must be earthed/grounded. Ensure all equipment is electrically earthed/grounded before beginning transfer operations. Fine dust is capable of penetrating electrical equipment and may cause electrical shorts.

- **Storage:**

Keep in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Do

not store together with strong oxidizing agents. Keep in properly labelled containers.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Carbon Black - 1333 -86 – 4

India 3.5 TWA

Australia 3.0 TWA

Canada 3.5 TWA

France - INRS 3.5 mg/m³, TWA/VME

Finland 3.5 mg/m³, TWA

7 mg/m³, STEL

Germany MAKs 1.5 respirable TWA

4.0 inhalablemg/m³, TWA

Germany - TRGS 900 3.0 respirable

6.0 respirable TWA

10.0 inhalablemg/m³, TWA

Denmark - TWA 3.5 mg/m³, TWA

Korea 3.5 TWA

Italy - OEL 3.5 mg/m³, TWA

Netherlands - MAC 3.5 mg/m³, TWA

Norway 3.5 mg/m³, TWA

Spain 3.5 mg/m³, TWA

Sweden - TLV 3.0 TWA

United Kingdom - OES (Table 2) 3.5 mg/m³, TWA

7 mg/m³, STEL

Ireland 3.5 mg/m³, TWA

7 mg/m³, STEL

Belgium - OEL 3.6 mg/m³, TWA

ACGIH TLV 3.5 mg/m³, TWA

ACGIH: American Conference of Governmental Industrial Hygienists

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Health and Safety Administration

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

TLV: Threshold Limit Value

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TWA: Time Weighted Average

MAK: Maximale Arbeitsplatzkonzentration

OES: Occupational Exposure Standard

TRGS: Technische Regeln für Gefahrstoffe
(Technical Rule for Hazardous Materials)

ENGINEERING CONTROLS

Ensure adequate ventilation to maintain exposures below occupational limits. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection:

An approved air-purifying respirator (APR) for particulate may be permissible where airborne concentrations are expected to exceed occupational exposure limits. Protection provided by airpurifying respirators is limited. Use a positive pressure, air supplied respirator if there is any potential for uncontrolled release, exposure levels are not known, or any circumstances where air-purifying respirators may not provide adequate protection. Use of respirators must include a complete respiratory protection program in accordance with national standards and current best practices. The following agencies/organizations approve respirators and/or criteria for respirator programs:.

US: NIOSH approval under 42 CFR 84 required.

OSHA (29 CFR 1910.134)

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ANSI Z88.2-1992 (Respiratory Protection). EU: CR592 Guidelines for the Selection and Use of Respiratory Protection. Germany: DIN/EN 143 Respiratory Protective Devices for Dusty Materials. UK: BS 4275 Recommendations for the Selection, Use and Maintenance of Respiratory Protective Equipment. HSE Guidance Note HS (G)53 Respiratory Protective Equipment.

- **Hand Protection:**

Wear protective gloves to prevent soiling of hands. Repeated exposure may cause skin dryness or cracking. Use protective skin cream before handling the product.

- **Eye Protection:**

Wear eye/face protection: , Safety glasses with side-shields, Goggles.

- **Skin and Body Protection:**

Wear suitable protective clothing. Wash clothing daily. Work clothing should not be allowed out of the workplace.

- **Other:**

Handle in accordance with good industrial hygiene and safety practice. Emergency eyewash and safety shower should be located nearby.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black Powder or Pellets

Odor: None

pH: >7 [50 g/l water, 68°F (20°C)]

Density: 1.7 - 1.9 g/cm³ @ 20 °C

Bulk Density: 20 - 550 kg/m³

Specific Gravity: Not determined

Boiling Point/Range: Not applicable

Melting Point/Range: Not applicable

Water Solubility: Insoluble

Vapor Pressure: Not determined

% Volatile (by Volume): <2.5% @ 950°C

Evaporation Rate: Not applicable

Viscosity: Not determined

Partition Coefficient (n-octanol/water): Not determined

Flash Point: Not applicable

Method: Not applicable

Flammable Limits in Air - Upper (%): Not determined

Flammable Limits in Air - Lower (%): 50 g/m³ (dust)

Spontaneous Ignition Temperature (transport): >140 °C

Autoignition Temperature: Not applicable

Flammability Classification: Not applicable

Dust Explosion Classification: ST 1 (VDI 2263)

Maximum Absolute Explosion Pressure: 10 bar

Method: VDI 2263

Maximum Rate of Pressure Rise: 30 - 100 bar/sec

Method: VDI 2263

Ignition Energy: > 1kJ

Method: VDI 2263

Minimum Ignition Energy: > 10 J

Method: VDI 2263

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10. STABILITY AND REACTIVITY

- **Stability:** Stable.
- **Hazardous Polymerization:** Hazardous polymerization does not occur.
- **Mechanical Sensitivity (shock):** Not sensitive to mechanical impact.
- **Conditions to Avoid:** Strong oxidizing agents. Keep away from oxidizing agents in order to avoid exothermic

reactions. Do not expose to temperatures above

300 °C.

- **Hazardous Decomposition Products:** Carbon dioxide Carbon monoxide Sulphur oxides (SOx) Organic products of decomposition

- **Static Discharge Effects:**

Avoid dust formation. Take precautionary measures against static discharges. All metal parts of the mixing and processing equipment must be earthed/grounded. Ensure all equipment is electrically earthed/grounded before beginning transfer operations.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Oral LD50: LD50/oral/rat = > 8000 mg/kg.

Eye Irritation: Rabbit, Draize score 10-17/110 @ 24 hr, Non-irritating

Skin Irritation: Rabbit, 0.6/8, Non-irritating

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SUBCHRONIC TOXICITY

Rat, inhalation, duration 90 days

NOAEL = 1.0 mg/m³

Target organ: lungs

Effect: inflammation, hyperplasia, and fibrosis

CHRONIC TOXICITY

Rat, oral, duration 2 years

Effect: no tumors

Mouse, oral, duration 2 years

Effect: no tumors

Mouse, dermal, duration 18 months

Effect: no skin tumors

Rat, inhalation, duration: 2 years

Target organ: Lungs.

Effect: inflammation, fibrosis, and tumors

Note: Tumors in the rat lung are related to the fine particle overload phenomenon rather than to a specific chemical effect of the dust particles in the lung. These effects in rats have been reported in studies on other inorganic insoluble particles and appear to be species specific. Tumors have not been observed in other species (i.e., mouse and hamster) for other insoluble particles under similar circumstances and study conditions

Carcinogenic Effects:

Does not contain any substances listed by NTP (National Toxicology Program), OSHA (Occupational Safety and Health Administration), ACGIH (American Conference for Governmental Industrial Hygienists) or EU (European Union).

In 1995 International Agency for Research on Cancer (IARC) concluded, "There is inadequate evidence in humans for the carcinogenicity of carbon black." Based on rat inhalation studies, IARC concluded that there is "sufficient evidence in experimental animals for the carcinogenicity of carbon black", resulting in their classifying carbon black as "possibly carcinogenic to humans (Group 2B)".

Carbon black is not designated a carcinogen by the U.S. National Toxicology Program (NTP), the U.S. Occupational Safety and Health Administration (OSHA), the American Conference of Governmental Industrial Hygienists (ACGIH) or the European Union (EU).

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The U.S. National Institute of Occupational Safety and Health (NIOSH) 1978 criteria document on carbon black recommends that only carbon blacks with PAH levels greater than 0.1% require the measurement of PAHs in air. As some PAHs are possible human carcinogens, NIOSH recommends an exposure limit of 0.1 mg/m³ for PAHs in air, measured as the cyclohexaneextractable fraction

Epidemiology:

Results of epidemiological studies of carbon black production workers suggest that cumulative exposure to carbon black may result in small decrements in lung function, as measured by FEV₁. According to a European investigation, exposure to 1 mg/m³ (inhalable fraction) of carbon black over a 40-year lifetime will result in a 48-milliliter (ml) decline in FEV₁. In contrast, normal age related decline over a similar period of time would be approximately 1200 ml. A similar morbidity study in the United States suggested a 27 ml decline in FEV₁ from a 1mg/m³ exposure over a 40 year period.

The relationship between symptoms and exposure to carbon black is less clear. In the U.S. study, 9% of the highest exposure group (in contrast to 5% of the unexposed group) reported symptoms consistent with chronic bronchitis. In the European study, methodological limitations in the administration of the questionnaire limit the drawing of definitive conclusions about symptoms. This study, however, indicated a link between carbon black and small opacities on the chest films, with negligible effects on lung function.

Mutagenic Effects:

A DMSO suspension of carbon black produced negative results in an Ames test. Organic solvent extracts of carbon black, however, can contain traces of polycyclic aromatic hydrocarbons (PAH), which may affect the results in different in-vitro test systems.

In an experimental investigation, mutational changes in the hprt gene were reported in alveolar epithelial cells in the rat following inhalation exposure to carbon black. This observation is believed to be rat specific and a consequence of "lung overload" (see Chronic Toxicity above)

- **Reproductive Toxicity:**

Did not show effects in animal experiments.

- **Sensitizing Effects:**

Contains no known sensitizers.

- **Synergistic Materials:**

None reasonably foreseeable.

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12. ECOLOGICAL INFORMATION

Aquatic Toxicity: Fish (Brachydanio rerio) LC50 (96hr) > 1000 mg/l,
(Method: OECD 203)

Daphnia magna: EC50 (24 hr) > 5600 mg/l. (Method: OECD 202)

Algae (Scenedesmus subspicatus): EC50 (72hr) > 10,000 mg/L

Algae (Scenedesmus subspicatus) NOEC >= 10,000 mg/L

Activated sludge, EC0 (3hr) >= 800 mg/l. (Method: DEV L3 TTC test)

ENVIRONMENTAL FATE

- **Mobility:** Insoluble. Not expected to migrate.
- **Bioaccumulation:** Not expected due to physicochemical properties of the substance.
- **Persistence / Degradability:** Not expected to degrade.
- **Distribution to Environmental:** Insoluble. Expected to remain on soil surface
- **Compartments:**

13. DISPOSAL CONSIDERATIONS

Product, as supplied, should be disposed of in accordance with the regulations issued by the appropriate federal, state and local authorities. Same consideration should be given to containers and packaging.. Waste Code (EU) 061303.

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14. TRANSPORT INFORMATION

The following organizations do not classify carbon black as a "hazardous cargo" if it is "carbon, non-activated, mineral origin". Cabot carbon blacks meet this definition.

Canadian Transport of Dangerous Goods Regulation

European Transport of Dangerous Goods Regulation

GGVS, GGVE, RID, ADR, IMDG Code, ICAO-TI

United Nations (no UN number)

US Department of Transportation

UN Number: None

UN Proper Shipping Name: Not Classified

UN Shipping Class: Not Classified

UN Packing Group: Not classified

International Transportation "Carbon black, non-activated, mineral origin". Not

Identification: dangerous according to IMDGCode, not dangerous

according to ICAO-TI

US Rail Regulations: Not classified

15. REGULATORY INFORMATION

- Indication of Danger**

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 99/45/EC and their various amendments and adaptations..

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- **EU Food Contact Information**

This product may be acceptable for applications coming in contact with food. However, due to national regulation variations within the European Union, the applicable laws of each member state should be consulted. Please contact your Cabot area sales manager for more specific information.

- **US Food Contact Information**

The Cabot products listed in Section 1 are high purity furnace carbon blacks.. High purity furnace black containing total polynuclear aromatic hydrocarbons less than 0.5 ppm (parts per million) and benzo(a)pyrene less than 5 ppb (parts per billion) are permitted for indirect contact with food when used as a colorant in polymers under section 21.

CFR (Code of Federal Regulations) 178.3297.

Limitations:

1) For use at levels not exceed 2.5 percent by weight of the polymer.

B. Carbon black is permitted for indirect contact with food when used as a filler in rubber articles intended for repeat use under 21 CFR (Code of Federal Regulations) 177.2600.

Limitations:

1) Total carbon black (channel process and furnace process) in the rubber may not exceed 50% by weight of the rubber product.

2) Furnace process black content may not exceed 10% by weight of rubber product intended for use in contact with milk or edible oils.

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- **California Proposition 65**

"carbon black (airborne, unbound particles of respirable size)" is a California Proposition 65 listed substance. Please note that all three listing qualifiers (airborne, unbound (not bound within a matrix), and respirable size (10 micrometers or less in diameter)) must be met for this substance to be considered a Proposition 65 substance. Please contact your sales representative for additional information.

International Inventories

All components of this product are listed on or exempt from the following inventories:

- YES - Australian Inventory of Chemical Substances (AICS)
- YES - European Inventory of Existing Commercial Chemical Substances (EINECS)
- YES - Canadian Domestic Substances List (DSL)
- YES - Chinese Inventory
- YES - Japanese Existing and New Chemical Substances (ENCS)
- YES - Korean Existing Chemicals List (KECL)
- YES - Philippine Inventory of Chemicals and Chemical Substances (PICCS)
- YES - United States Toxic Substances Control Act (TSCA) Inventory

16. OTHER INFORMATION

- **Carbon Black Extracts:**

Manufactured carbon blacks generally contain less than 0.1% of solvent extractable polycyclic aromatic hydrocarbons (PAH). Solvent extractable PAH content depends on numerous factors including, but not limited to, the manufacturing process, desired product specifications, and the analytical procedure used to measure and identify solvent extractable materials. Questions concerning PAH content of carbon black and analytical procedures should be addressed to your carbon black supplier.

- **General:**

The carbon black industry continues to sponsor research designed to identify adverse health effects from long term exposure to carbon black. This MSDS will be updated as new safety and health information may become available.

Disclaimer: The information set forth is based on information that Cabot Corporation believes to be accurate. No warranty, expressed or implied, is intended. The information is provided solely for your information and consideration and Cabot assumes no legal responsibility for use or reliance thereon.

Regd Off: - Plot no 24 Block no .5, 1st floor, Behind Aurora cinema , opp Sahakari bhandar, Matunga (C.R) Mumbai – 400019

Administration /correspondence Office :- Plot No. 319, Room No.3, Ranchoddas Terrace building ,sir Bhalchandra Road, opp Hira House, Near Chhatre Maternity Hospital, Matunga (C.R) Mumbai – 400019

Tel :- +91 22 24148378 / 24146390

Mob :- MR NILESH MEHTA +91 9820142066 / +91 8850378208/+91 9029042066

Email Id :- info@arihantchemcorp.com, or nilesh@arihantchemcorp.com