

Tel: +86-571-87817849 **Fax:** +86-571-87819510

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: CARBON BLACK

Synonyms: Carbon Black, Pigment Black

> This MSDS is valid for: Carbon Black DeryBlack series 121, 131, 141, 161, 189, 199, 206, 216, 245, 209, 229, 275, 261, 297, 317, 325, 349, 607. The foregoing are trademarks of the Hangzhou Dery Chemical Co., Ltd

Product Use/Class: Various Industrial Products

Supplier/Manufacturer: Hangzhou Dery Chemical Co. Ltd

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www.dr-carbonblack.com

2. HAZARDS IDENTIFICATION

Not a hazardous substance or preparation according to Indication of danger:

EC-directives 67/548/EEC or 99/45/EC 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.

Skin Contact: A moderate irritant based on animal testing product

> may cause redness and drying of skin. The product contains a component which is not a skin sensitizer but

may be a fatiguing agent based on animal testing.

Inhalation: Possibly irritating.

Ingestion: Low hazard for usual industrial or commercial handling.

Health injuries are not known or expected under

normal use.

Target Organ Effects: Lungs

Medical Conditions Aggravated: Asthma, Respiratory disorder By Exposure

Potential Environmental Effects: No special environmental precautions required.

Insoluble in water

General: Some studies have linked exposure of carbon black dust to lung effects. IARC

classifies carbon black as a Category 2B Carcinogen (known animal carcinogen,

possible human carcinogen) based on inhalation studies.

However, the manufacturers of carbon black state that epidemiologic studies of



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workers in the carbon black industry in the U.S. and W. Europe show no significant adverse health effects due to occupational exposure. Because this product is a free-flowing liquid or paste, dust inhalation is not an expected route of exposure.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

4. FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with plenty of water. Obtain

medical attention if irritation develops.

Skin Contact: Remove contaminated clothing/shoes. Flush skin with water. Follow by

washing with soap and water. If symptoms develop or persist, obtain

medical attention. Wash clothing before reuse.

Inhalation: If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If

unconscious, evaluate the need for artificial respiration. Get immediate

medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Have victim drink 8-10 ounces of

water to dilute material in stomach. Get medical attention immediately.

Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flash Point: > 230 F

Flash Point Method: Seta flash Closed Cup

Lower Explosive Limit: Not determined Upper Explosive Limit: Not Determined

OSHA Flammability Classification: None

Autoignition Temperature: Not Determined

Extinguishing Media: Use water spray or fog, foam, dry chemical or CO2.

Fire Fighting Procedures: As in any fire, wear self-contained positive-pressure

breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire). Cool with

water spray.

6. ACCIDENTAL RELEASE MEASURES



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Steps To Be Taken In Case Material Is Released Or Spilled:

Use personal protective equipment as described in Section 8. Absorb spill with inert material and place in a chemical waste container. Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater, or soil.

7. HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Follow all MSDS/label

precautions even after container is emptied because it may retain product residues. Avoid contact with eyes,

skin and clothing.

Storage: Store in a cool, dry place. Keep container closed when

not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Value Limit Reference NJTSR No. 56705700001-5382P N.E. TWA OSHA/ACGIH N.E. STEL OSHA/ACGIH 3.5 mg/m3 Carbon black, amorphous TWA OSHA/ACGIH OSHA/ACGIH N.E. STEL

Engineering Controls: Use adequate ventilation to maintain exposures below

occupational limits. Provide appropriate exhaust ventilation at machinery and at the places where dust

can be generated.

Respiratory Protection: A respiratory protection program that meets OSHA

1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of

respirators.

Eye Protection: Use chemical splash goggles. Skin Protection: Use impermeable gloves.

Other Protective Equipment: A safety shower and eye wash fountain should be

readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this

product.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black powder or pellets

Odor: weak odor
Vapor Pressure: Not available
Vapor Density (Air = 1): Is heavier than air
Specific Gravity: Not determined
Boiling Point: Not available

PH: 1.5-8

Viscosity: Not determined
Flash Point: Not applicable
Water Solubility: Not applicable

Evaporation Rate: Is slower than Butyl Acetate

Autoignition Temperature: >140 $^{\circ}$ C (transport) Method: IMDG-Code Explosion Limits in Air-upper (%): Not determined Explosion Limits in Air-lower(%): 50g/m³(dust)

(Not classifiable as "Highly Flammable" or "Easily Ignitable")

10. STABILITY AND REACTIVITY

Burn Velocity:

Stability: This product is stable under normal storage

conditions.

Hazardous Polymerization: Will not occur under normal conditions.

>45 seconds

Conditions To Avoid: High temperature.

Incompatibility with Other Materials: Oxidizing materials. Strong acids; Peroxides;

Hydrazides; Alkali metals.

Hazardous Polymerization: Hazardous polymerization does not occur.

Mechanical Sensitivity (shock): Not sensitive to mechanical impact.

Condition to Avoid: Do not expose to temperatures above 300°C

Keep away from oxidizing agents in order to

avoid exothermic reactions.

11. TOXICOLOGICAL INFORMATION

Component Toxicological Information: Carbon black, amorphous

Oral LD50 (rat): > 10,000 mg/kgInhalation LC50 (rat): 6750 mg/m3/4h

Reproductive Toxicity: Did not show effects in animal experiments.

Sensiting Effects: Contains unknown sensitizers.

Synergistic Material: None reasonably foreseeable.

12. ECOLOGICAL INFORMATION



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Aquatic Toxicity: Fish(Brachydanio rerio): LC50(96hr)>1,000mg/L(Method: OECD203).

Daphnia magna:EC50(24hr)>5,600mg/L.(Method:OECD202) Algae (Scenedesmus subspicatus):EC50(72hr)>10,000mg/L. Algae (Scenedesmus subspicatus):NOEC>=10,000mg/L.

Activated sludge:EC0(3hr)>=800mg/L.(Method:DEVL3TTC test).

ENVIRONMENTAL FATE

Mobility: Not expected to migrate. Insoluble.

Bioaccumulation: Not expected due to physicochemical properties of the substance.

Persistence: Not expected to degrade.

Distribution to Environmental Compartments: Insoluble. Expected to remain on soil

surface.

13. DISPOSAL CONSIDERATIONS

Disposal Method: Waste must be disposed of in accordance with federal, state,

provincial and local regulations. CONTAINER DISPOSAL: Empty containers by removing the top and inverting to allow all free flowing products to drain. To meet regulatory criteria, the container is considered empty when less than 3% remains in the container. Additional special handling is not typically required and the empty

container can be discarded with other non-hazardous trash.

Note: Local disposal regulations may be more stringent and require

additional restrictions or precautions. Customers should check with their local disposal company, municipal or state authority. Recycle of plastic or metal containers may require clean rather than empty containers. In this case the containers can be rinsed with water until

the containers are considered generally product free.

14. TRANSPORT INFORMATION

The following organizations do not classify carbon black as a "hazardous cargo" if it is" carbon, non-activated, mineral origin". Hangzhou Dery Chemical carbon blacks meets 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 Class: Not classified



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UN Shipping Class: Not classified

UN Packing Group: Not classified

International Transportation "Carbon black, non-activated, mineral origin"

Identification: Not dangerous according to IMDG-Code.

Not dangerous according to ICAO-TI.

US Rail Regulations: Not classified

15. REGULATORY INFORMATION

U.S. Federal Regulations

OSHA:

This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard.

Clean Air Act Section 112:

This product contains the following components present at or above the OSHA de minimus level and listed as Hazardous Air Pollutants:

None

This product contains the following components present at or above the OSHA de minimus level and listed as Extremely Hazardous Air Pollutants:

None

SARA Section 302:

This product contains the following components listed as Extremely Hazardous Substances:

None

SARA Section 311/312:

Hazard Classifications: Immediate (acute)

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

None

TSCA:

This product or its components are listed in or exempt from the TSCA inventory requirements. This product contains the following non-proprietary substances subject to export notification under Section 12(b) of TSCA:

None

State Regulations California (Proposition 65):

This product contains the following substances known to the State of California to cause cancer:



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None

This product contains the following substances known to the State of California to cause adverse reproductive effects:

None

International Regulations

Summary of International Chemical Inventory Status

Canada On inventory
Europe On inventory
South Korea On inventory
Australia Not on inventory

16. OTHER INFORMATION

HMIS Ratings: Health - 2 Flammability - 1 Reactivity - 0

Ratings Key: 4 = Highest hazard, 0 = Lowest hazard,

= Chronic health hazard, N = No rating for powders

NFPA Ratings: Health - 1 Flammability - 1 Reactivity - 0

Ratings Key: 4 = Highest hazard, 0 = Lowest hazard, N = No rating for powders

Key to abbreviations used:

NA: Not applicable
NAV: Not available
NE: Not established

NJTSR No: New Jersey Trade Secret Registry Number

R: Registered Trademark.

TM: Trademark.

Revision Summary:

The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.