



Material Safety Data Sheet

Carbon Black

Edition: 7/3/2010

1) Identification of substance/preparation and of the company undertaking

Material Carbon Black
 Synonyms Lampblack, Pigment Black
 CAS No 1333-86-4
 Company Inoxia Ltd
 PO Box 904
 Guildford
 GU2 8WX
 Tel: 07952 480296
 www.inoxia.co.uk

2) Composition

Name Carbon Black
 EC No. 215-609-9
 CAS-No. 1333-86-4
 Content Classification 100%

The Full Text for all R-Phrases are Displayed in Section 16

3) Hazard Identification

Not regarded as a health or environmental hazard under current legislation.

4) First Aid Measures

General information Contaminated clothing should be removed and washed before being re-used.

Inhalation Remove victim immediately from source of exposure. Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion Rinse mouth thoroughly with water. Victims who are not unconscious should drink large quantities of milk or water, or self induce vomiting (e.g. by sticking own finger into the throat). NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention if any discomfort continues.

Skin contact Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

Eye contact Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5) Fire Fighting

Extinguishing media Fire can be extinguished using: Water spray, fog or mist. Foam. Dry chemicals, sand, dolomite etc.

Special fire fighting procedure No specific fire fighting procedure given.

Specific hazards Fire or high temperatures create: Carbon dioxide (CO₂). Carbon monoxide (CO).

Unusual fire & explosion hazards Dust may form explosive mixture with air.

Protective measure in fire Wear self-contained breathing apparatus if this product is involved in a fire.

6) Accidental Release

Personal precautions Wear protective clothing if dust in the atmosphere is a problem.

Environmental precautions Avoid washing into water courses. Avoid contaminating public drains or water supply.

Spill clean up methods Pick up with vacuum or absorbent solid, store in closed container for disposal. Should be prevented from entering drains. Do not contaminate water sources or sewer. An environmental concern is the discolouration of land and water. If the product has entered a water course or sewer, advise the local Environmental Agency or Water Authority. The product will eventually settle and become an inert part of the silt. Do not hose away any spillage.

7) Handling/Storage

Usage precautions Keep away from heat, sparks and open flame. Avoid handling which leads to dust formation.

Storage precautions Keep away from heat, sparks and open flame.

Storage class Unspecified storage.

8) Exposure Controls

Short-Term Exposure Limit (15 minute) 7 mg/m³

Long-Term Exposure Limit (8 hours) 3.5 mg/m³

Process conditions Use engineering controls to reduce air contamination to permissible exposure level.

Engineering measures Provide adequate general and local exhaust ventilation.

Respiratory equipment Use high efficiency particulate respirator with appropriate filter.

Hand protection Use suitable protective gloves if risk of skin contact.

Eye protection Wear approved chemical safety goggles where eye exposure is reasonably probable.

Other protection Use engineering controls to reduce air contamination to permissible exposure level. Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Change work clothing daily before leaving work place.

9) Physical/Chemical Properties

Appearance Powder, dust

Colour Black

Odour Odourless

Solubility Insoluble in water

Relative density 1.7 - 1.9 g/cm³

Auto ignition temperature > 260°C

10) Stability/Reactivity

Stability	No particular stability concerns.
Conditions to avoid	Avoid contact with: Strong oxidising agents.
Hazardous decomposition products	Depending on the amount of carbon black present, ignition in air may occur above 315°C. Carbon monoxide and carbon dioxide are emitted.

11) Toxicological Info

From literature surveys undertaken on carbon black

LD50 (oral)	>5000 mg/kg (Rat)
Eyes	Mild irritant (Rabbit)
Skin (24 hr)	Non-irritant (Rabbit)
General	No specific health warnings noted.
Inhalation	No specific health warnings noted. Although carbon black contains trace amounts (<0.1%) of polynuclear aromatic hydrocarbon compounds (PNA's), some of which have been found to cause cancer in certain studies, no carcinogenic effect has been found in animal studies due to exposure to carbon black. Epidemiological studies of the incidence of cancer, cardiovascular and respiratory disease in workers in the carbon black industry, have shown no significant health effects due to occupational exposure to carbon black. Carbon black has not been listed as a carcinogen by the NTP or OSHA. IARC considers carbon black to be possibly carcinogenic to humans (April 1996) and NIOSH recommends that only carbon blacks with PNA levels >0.1% should be considered as suspected carcinogens.
Ingestion	No specific health warnings noted.
Skin contact	Prolonged contact may cause irritation.
Eye contact	May cause irritation.
Other health effect	This substance has no evidence of carcinogenic properties.

12) Ecological Information

Ecotoxicity	Little danger to the environment. Avoid washing into water courses. Avoid contaminating public drains or water supply.
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Acute Toxicity:

Daphnia Magna EC50 (24h)	5600 mg/l
Fish LC50 (96h)	>1000mg/l
Algae EC50 (72h)	>10000 mg/l

13) Disposal Consideration

Disposal methods	Recover and reclaim or recycle, if practical. Contact specialist disposal companies. Dispose of waste and residues in accordance with local authority requirements.
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14) Transport Information

General	Not classified as dangerous for transport purposes. Although this product is not classified as dangerous for transport, it is recommended that it should not be carried in the same vehicle as foodstuffs. No transport warning sign required.
Road transportation	Not classified as dangerous for road transport.
Rail transportation	Not classified as dangerous for rail transport.
Sea transportation	Not classified as dangerous for sea transport.
Air transportation	Not classified as dangerous for air transport.

15) Regulatory Information

Risk phrases	Not classified.
Safety phrases	Not classified.
UK regulatory references	Chemicals (Hazard Information & Packaging) Regulations 1996.
EU directives	Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC
Guidance notes	UK HSE guidance note EH40, Workplace Exposure Limits.

16) Other Information

This information is for health and safety guidance only, is not a material specification, and does not constitute the user's own assessment of suitability, and workplace risk as required by any other Health and Safety legislation. It is accurate to the best of our knowledge and belief, but since the conditions of handling and use are outside our control we make no guarantee of results, and assume no liability for damages incurred by use of this material.