



YUCHENG JINHE INDUSTRIAL CO.,LTD

Add: NO.66,WENHUA ROAD,ZHENGZHOU, CHINA

Tel:86-371-86107227; Web: www.jinhetec.com

Material Safety Data Sheet

Of Carbon black

Section 1: Chemical Product and Company Identification

PRODUCT NAME: Carbon Black
CHEMICAL NAME: Carbon (Amorphous)
SUPPLIER: YUCHENG JINHE INDUSTRIAL CO.,LTD
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Section 2: Composition/Information on ingredients

Component: **Carbon Black** (Amorphous Carbon)
CAS Number: 1333-86-4
Chemical Formula:C
Molecular Weight: 32

Section 3: Hazards identification

POSSIBLE EFFECT ON HEALTH

EYE:

Carbon black may produce eye irritation.

SKIN CONTACT:

The product is not skin irritant.

INFILTRATION THROUGH SKIN:

Infiltration is not probable, carbon black being a dry solid material.

INGESTION:

Specific effect is not known.

INHALATION:

At high concentrations of carbon black dust (above TLV) inhalation may produce irritation of lungs.

Section 4: First Aid measures

EYE

Flush with water.

SKIN

Wash with soap and water.

INGESTION

Usually no hazardous effect is produced.

INHALATION

Go out into open air.



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Section 5: Fire and Explosion Data

COMBUSTIBILITY

FLASH POINT N/A

INFLAMMABILITY IN AIR May inflame at temperatures above 250 C.

LOWER EXPLOSIBILITY LIMIT (LEL) 60 mg/cu.m *

UPPER EXPLOSIBILITY LIMIT (UEL) N/A

EXTINGUISHING MEDIA Atomized jet of water.

UNUSUAL FIRE HAZARDS

Carbon monoxide and carbon dioxide are generated during combustion of carbon black. The product burns (smolders) without flame, therefore in some cases combustion of carbon black cannot be detected, cases combustion of carbon black cannot be detected, unless the product is stirred and sparks are produced.

HAZARDS OF DUST EXPLOSION

Carbon black does not explode easily, so it is not considered hazardous in practical applications.

However, in certain test conditions mixture of carbon black dust and air may explode.

* Reported data on LEL differ. We take the value from The Handbook of Powder Technology, ed. by P.Field, v.4, as being the lowest in literature.

Section 6: Procedures in Case Material is Released or Spilled

Collect with vacuum cleaner, sweep up or sprinkle with water and collect in refuse container.

Section 7: Handling and storage

Store in containers and indoors. Not to expose to open fire or strong oxidizers. Check for carbon monoxide and oxygen content in air before entering container or workroom.

If carbon monoxide is present or oxygen is low use adequate gas masks. Produce less dust in air. Collect all spilled material immediately.

Section 8: Limiting Exposure and Personal Protective Measures

INHALATION STANDARDS

Maximum carbon black dust content in air by U.S. standards is 3.5 mg/cu.m, by German standards 6 mg/cu.m, by Ukrainian standards 4 mg/cu.m, by U.K. standards 3,5 mg/cu.m.

BREATH PROTECTION

Not required in normal conditions. If dust content in air is above recommended limit use protective mask that conforms to European, national, and local regulations.

SKIN PROTECTION

Not required. Use of protective gloves is not necessary.

EYE PROTECTION

Use protective glasses or goggles.

PROTECTIVE CLOTHING

Not required.



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TECHNICAL CONTROL

Adequate ventilation is recommended that should keep dust content in air under the standard limit.

Section 9: Physical&chemical properties

APPEARANCE

Amorphous solid material in the form of 0.1 to 3.0 mm black-colored pellets.

ODOR

Odorless

BOILING POINT

N/A

VAPOR PRESSURE

N/A

VAPOR DENSITY

N/A

SOLUBILITY IN WATER

Insoluble

RATE OF VAPORISATION

N/A

SPECIFIC WEIGHT

(Water=1) 1.7 to 1.9

POUR DENSITY

150 to 650 (ASTM D1518)

VISCOSITY

N/A

Section 10: Stability & Reactivity Data

STABILITY

Product is stabile.

INCOMPATIBILITY (MATERIALS TO AVOID)

Strong oxidizers such as liquid oxygen, chlorates, bromates, nitrates.

CONDITIONS TO AVOID

Excessive heating, exposure to open fire.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide and dioxide are produced in combustion.

HAZARDOUS POLYMERIZATION

No polymerization occurs

Section 11: Toxicological information



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EYE

ACUTE Slight irritation

CHRONIC Slight irritation

SKIN

ACUTE Not expected

CHRONIC Not expected

INGESTION

ACUTE Not expected

CHRONIC Not expected

INHALATION

ACUTE

Dust in concentrations above TLV may cause transient irritation of upper respiratory tract.

CHRONIC

Research in USSR showed high incidence of respiratory tract diseases, including pneumoconiosis, emphysema, rhinitis. It is to be noticed that dust concentrations were above TLV in that research. On the other hand, ACGIH Committee on TLV classified carbon black as dust that causes inconvenience with no proved pathological or harmful changes of structure or function of lungs. No carcinogenic effect of carbon black on animals or man was established. Research on humans in USA gave no evidence of carbon black dust concentrations equal to or below TLV in workrooms causing respiratory tract diseases.

OTHER

Oral LD50 > 10000 mg/kg (rat).

CARCINOGENIC EFFECT

The International Agency for Research on Cancer (IARC), the U.S. National Toxicology Program (NTP), the U.S. Occupational Safety and Health Administration (OSHA) do not classify carbon black as carcinogenic material.

Section 12: Ecological Information

No negative effect on environment has been established.

Section 13: Disposal Considerations

Neither in Ukraine nor in Europe (Directive 78/319/EEC) carbon black is classified as toxic or hazardous waste. Waste may be incinerated or buried, observing all European, national, and local regulations.

Section 14: Transport information

According to the rules of transportation established by Ukrainian Ministry of Railroad, carbon black is classified as self-igniting hazardous material, Class 4, Subclass 4.2, and is supplied with Emergency Card 47. It may be transported in bulk in special hopper cars or packed in containers. In most European countries and in the USA carbon black is not considered hazardous material and may be shipped by land, sea, or air transport without limitations.



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Section 15: Other Regulatory information

Labeling Requirements

Carbon black, CAS No. 1333-86-4, is included in following inventories :

All-Union Classifier of Industrial and Agricultural Products (Ukraine);

U.S. Toxic Substances Control Act (TSCA);

European Inventory of Existing Chemical Substances (EINECS - No. 215-609-9);

Canadian Domestic Substances List (DSL);

Australian Inventory of Chemical Substances (AICS);

List of Existing Chemical Substances of Japanese

Ministry of international Trade and Industry (MITI);

Korean Toxic Chemicals Control Law (TCCL).

Classification according to Ukrainian Standards :

Hazard symbol and labeling-according GOST 19433-88

Classification code 4213

UNO Classification No 1361

Classification according to European Standards :

Symbol and Labeling for Hazard : None

Components of Labeling for Risks : None

R - Clauses : None

S - Clauses : None

Section 16: Other information

TEXT ON LABEL : Carbon Black

The preceding data are based on test results that we consider reliable. However, we cannot guarantee them or take responsibility for the consequences of their use. Users are to conduct their own research in order to determine whether the data or products are suitable for their specific applications. None of the data reported here are to be understood as permission, suggestion, or recommendation for infringement of any laws or application of any inventions protected by patents in force.