

Material Safety Data Sheet

1. Identification of the Substances/Preparation and of the Company/Undertaking

Product Details

Trade Name: *****r

Manufacturer/Supplier: *****CO., LTD.

Contact Person: *****

E-Mail: *****

Tel: *****

Fax: *****

Information in Case of Emergency

Tel: *****

Contact Person: *****

2. Hazards Identification

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Specific Target Organs Toxicity (Repeated Exposure) Category 1

Carcinogenicity Category 2

Classification according to European Directive 67/548/EEC as amended.

Limited evidence of a carcinogenic effect.

Label Elements

Labeling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal Word

Danger

Hazard Statement(s)

H372 Causes damage to organs (lung) through prolonged or repeated exposure.

H351 Suspected of causing cancer.

Precautionary Statement(s)

P281 Use personal protective equipment as required.

P201 Obtain special instructions before use.


P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P314 Get medical advice/attention if you feel unwell.

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P405 Store locked up.
P308+P313 IF exposed or concerned: Get medical advice/attention.
Hazard Smbol(s)  Xn - Harmful
R-Phrases
R40 Limited evidence of a carcinogenic effect.
S-Phrases
S36/37 Wear suitable protective clothing and gloves.

3. Composition/Information on Ingredients

Chemical Characterization

Formula : C

Molecular Weight : 12.01 g/mol

Substance	CAS #	EC#	Amount%	EU Classification	CLP Classification
Carbon Black	1333-86-4	215-609-9	99	Xn; R40	STOT RE 1; H372 Carc. 2; H351

4. First-Aid Measures

Eye Contact: Flush eyes with water as a precaution.

Skin Contact: Wash off with soap and plenty of water. Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. Fire-Fighting Measures

Flammability of the product: May be combustible at high temperature.

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

Special Exposure Hazards Arising From the Substance Itself or Combustion Products: Carbon monoxide, carbon dioxide, organic products of decomposition.

Special Protective Equipment for Fire-Fighters: Wear self contained breathing apparatus for fire fighting if necessary.

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

6. Accidental Release Measures

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Personal Precautions: Avoid dust formation. Ensure adequate ventilation. Use personal protective equipment. See also Section 8. Evacuate personnel to safe areas. Avoid breathing dust.

Precautions to Protect the Environment: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for Cleaning Up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. Handling and Storage

Handling

Advices on Safe Handling: Avoid contact with skin and eyes. Avoid formation of dust. Provide appropriate exhaust ventilation at places where dust is formed.

Precautions Against Fire and Explosion: Normal measures for preventive fire protection.

Storage

Requirements for Storage Rooms and Vessels: Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

Advice on Storage Compatibility: Strong oxidizers such as chlorates, bromates, and nitrates.

Further Information on Storage Conditions: Containers of this material may be hazardous when empty since they retain product residues (dust, solids).

8. Exposure Controls/Personal Protection

Exposure Limits

The information below is a summary. Please see the specific legislation for complete information.

Carbon Black (CAS# 1333-86-4): Belgium - OEL: 3.6 mg/m³, TWA

Czech Republic: 2.0 mg/m³, TWA

Finland: 3.5 mg/m³, TWA

7.0 mg/m³, STEL

France - INRS: 3.5 mg/m³, TWA/VME

Germany - TRGS 900: 3.0 mg/m³, Respirable TWA

10.0 mg/m³, Inhalable TWA

Germany - MAKs: 1.5 mg/m³, Respirable TWA

4.0 mg/m³, Inhalable TWA

Ireland: 3.5 mg/m³, TWA

7.0 mg/m³, STEL

Italy - OEL: 3.5 mg/m³, TWA

Netherlands - MAC: 3.5 mg/m³, TWA

Norway: 3.5 mg/m³, TWA

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Spain: 3.5 mg/m³, TWA
 Sweden - TLV: 3.0 mg/m³, TWA
 United Kingdom - WEL: 3.5 mg/m³, Inhalable TWA (a)
 7.0 mg/m³, Inhalable STEL

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: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).

Eye Protection: Wear eye/face protection, safety glasses with side-shields, goggles.

Hand Protection: Wear protective gloves to prevent soiling of hands.

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.

9. Physical and Chemical Properties

General Information	
Form:	Powder
Color:	Black
Odor:	Odorless
pH:	N/A
Melting Point/Range:	3,654 – 3,697 °C
Boiling Point/Range:	4,827 °C
Percent Volatility:	N/A
Flash Point:	N/A
Density:	1,500 - 1,900 g/cm ³
Vapor Pressure:	N/A
Vapor Density:	N/A
Evaporation Rate & Reference:	N/A
Solubility in Water:	Insoluble
Explosion Limits in Air - Upper :	N/A
Explosion Limits in Air - Lower:	N/A

10. Stability and Reactivity

Stability: The product is stable.

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Incompatibility (Materials to Avoid): Strong oxidizers such as chlorates, bromates, and nitrates.

Conditions to Avoid: Excessive heat or flame. Keep away from oxidizing agents in order to avoid exothermic reactions.

Hazardous Decomposition and/or Combustion Products: Carbon monoxide, carbon dioxide, organic products of decomposition.

Hazardous Polymerization: Will not occur.

Static Discharge Effects: Take precautionary measures against static discharges. Avoid dust formation. 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

Potential Acute Health Effects

Eye Contact: Exposure to the dust may cause discomfort due to particulate nature. May cause mechanical irritation to the eyes.

Skin Contact: No adverse effects expected. Few cases of sensitization in humans have been reported.

Inhalation: Dust may be irritating to respiratory tract.

Ingestion: Health injuries are not known or expected under normal use. Low hazard for usual industrial or commercial handling.

Acute Oral Toxicity: LD50 > 15, 400 mg/kg, Rat

Remarks: Behavioral: Somnolence (general depressed activity)

Acute Dermal Toxicity: LD50 > 3, 000 mg/kg, Rabbit

Acute Inhalational Toxicity: No data available.

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

Skin Corrosion/Irritation: Rabbit. 0.6/8. Slight irritation.

Respiratory or Skin Sensitization: No data available.

Subacute Toxicity: No data available.

Germ Cell Mutagenicity: Genotoxicity in vivo - Mouse – Inhalation – DNA damage.

Carcinogenicity

IARC: Group 2B; Possibly carcinogenic to humans.

ACGIH: A4; Not classifiable as a human carcinogen.

Reproduction Toxicity: No data available.

Specific Target Organ Toxicity - Single Exposure: No data available.

Specific Target Organ Toxicity - Repeated Exposure: Category 1: Causes damage to organs (lung) through prolonged or repeated exposure.

Aspiration Hazard: No data available.

12. Ecological Information

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Ecotoxicity: LC50 (96 h) > 1.000 mg/l, *Danio Rerio* (Zebra fish))

EC50 (24 h) > 5.600 mg/l, *Daphnia magna* (Water flea)

EC50 (72h) > 10.000 mg/l, *Desmodesmus subspicatus* (Green Algae)

Mobility: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

13. Disposal Considerations

Waste Disposal Methods: Waste must be disposed of in accordance with relevant EC Directives and national, regional and local environmental control regulations. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

14. Transport Information

Road Regulation (ADR/RID)

It is not classed as hazardous chemicals in ADR/RID Regulations.

Air Transportation (IATA /ICAO)

It is not classed as hazardous material or dangerous goods for transportations under IATA/ICAO Regulations.

Marine Transportation (IMO/IMDG)

It is not regulated as hazardous material or dangerous goods for transportation under IMO/IMDG Regulation.

15. Regulatory Information

US Federal

TSCA Inventory Status: CAS# 1333-86-4 is listed on the TSCA inventory.

Health & Safety Reporting List: None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules: None of the chemicals in this product are under a Chemical Test Rule.

Section 12b: None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs: None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances: None of the chemicals in this product have a TPQ.

Section 313: No chemicals are reportable under Section 313.

Clean Air Act

The product does not contain any hazardous air pollutants.

The product does not contain any Class 1 Ozone depleters.

The product does not contain any Class 2 Ozone depleters.

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Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

California Prop 65:

The following statement(s) is(are) made in order to comply with the California Safe Drinking Water Act:

WARNING: This product contains Carbon black, a chemical known to the state of California to cause cancer.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

For more information, see Section 2.

Canada – DSL/NDSL: CAS# 1333-86-4 is listed on Canada's DSL List.

Canada – WHMIS: This product has a WHMIS classification of D2A, D2B. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List: CAS# 1333-86-4 is listed on the Canadian Ingredient Disclosure List.

16. Other Information

Abbreviations: pH - Relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline

OSHA- Occupational Safety and Health Administration

IARC- International Agency for Research on Cancer

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds

LD50 – Lethal Dose 50 Percent Kill

ACGIH – The American Conference of Governmental Industrial Hygienists

ADR –Agreement on Dangerous Goods by Road

RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail

ICAO –International Civil Aviation Organization

IATA –International Air Transport Association

IMO – International Marine Organization

IMDG - International Maritime Dangerous Goods

Further Information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This safety data sheet was prepared in accordance with Regulation (EC) No. 1907/2006 (REACH), Annex II and Regulation (EC) No. 1272/2008 (CLP) –Europe.

Department Issuing MSDS: DORCO PRECISION (NINGBO) CO., LTD.

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This MSDS Service is Provided by ZHEJIANG LANDER STANDARD TECHNOLOGY CO., LTD.
Signed for and on behalf of
Lander Testing Lab

Chemistry Lab Engineer
Date: March 24, 2011



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