Safety Data Sheet (SDS)

Revision / Review Date: 12/17/14

1. Chemical Product and Company Identification

Product Name:	Carbon Black (N110, N220, N234, N326, N330, N339, N550, N650, N660, N762, N774, N990)
Distributed By:	HB Chemical 1665 Enterprise Parkway Twinsburg Oh 44087 Phone - 330-920-8023
MSDS Prepared By (w Suppliers Input):	HB Chemical
CAS No.	1333-86-4
EC No:	215-609-9
Product Use:	Manufacture of rubber products.

For emergency health, safety, and environmental information, calls 330-920-8023
For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300

2. Hazard(s) Identification

Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 [CLP] This product is not classified as hazardous. Classification according to Directive 67/548/EEC [DSD]
Label elements	Labelling according to Regulation (EC) No 1272/2008 [CLP]
Hazard pictogram:	No pictogram is used.
Signal word:	No signal word is used.
Hazard statements:	No hazard statement.
Precautionary statements:	No precautionary statement.
Supplemental Hazard information (EUH):	No information available.
Other hazards:	No information available.

3. Composition / Information on Ingredients

Substance name: Carbon black
REACH registration No.: 01-2119384822-32-0067 Index No.: Not listed.
CAS No.: 1333-86-4 EC No.: 215-609-9
Purity: ≥97% (The rest impurity doesn't contribute to the hazard classification for the product.)

4. First Aid Measures

General advice:	In all cases of doubt, or when symptoms persist, seek medical attention.
Inhalation:	Take affected persons into fresh air. Refer for medical attention if symptoms persist.
Skin Contact:	Wash from the skin using mid soap and water. If symptoms develop, seek medical attention.
Eye Contact:	Rinse eyes thoroughly with large volumes of water keeping eyelid open. If symptoms develop, seek medical attention
Ingestion:	Never give anything through mouth to an unconscious person. Get medical attention.
Note for the doctor:	Treat symptomatically and supportively.
Most important symptoms and effects, Both acute and delayed:	Carbon black dust or powder may cause drying of the skin with repeated and prolonged contact. Short-term exposures to high concentration of carbon black may produce discomfort to the upper respiratory tract, resulting in coughing and wheezing.
Indication of the immediate medical attention and special treatment:	No information available.

5. Fire-Fighting Measures

Extinguishing media Suitable extinguishing media :	Use water spray, foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media:	high pressure water stream.
Special hazards arising from the substance or mixture;	Carbon black (powder or pellet) burn slowly (molder) and may sustain combustion not visible as flames or smoke. Combustion gases (carbon monoxide, carbon dioxide, oxides of sulfur) may generate during combustion of carbon black. Dust clouds can be ignited on contact with intensely heated surfaces.
Advice for firefighters:	Wear full protective firefighting gear including self-contained breathing apparatus.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:	Refer to Section 8 for personal protective equipment. Avoid

	dust formation. Avoid breathing dust. Prevention of skin and eye contact. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.
Environmental precautions:	Carbon black poses no significant environmental hazards. As a matter of good practice, minimize contamination of sewage water, soil, groundwater, drainage systems, or bodies of water.
Methods and materials for containment and cleaning up:	Spills should be cleaned immediately to prevent the spread of carbon black. Dry vacuuming is the recommended method to collect spilled carbon black. If it is necessary to clean a remote or small spill by dry sweeping, caution should be taken not to disperse carbon black into the air. Water sprays and wetting are not recommended for cleaning because water may cause spilled carbon black to disperse. Wet carbon black makes walking surfaces very slippery!
Reference to other sections:	For disposal see section 13.

7. Handling and Storage:

Precautions for safe handling:	Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Ensure equipment is tightly sealed.
Conditions for safe storage, including any incompatibilities:	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Specific end uses:	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure Controls / Personal Protection

Control parameters: Occupational exposure limit values - TWA - 8h:

Belgium: 3.5 mg/m3; Canada: 3.5 mg/m3; Denmark: 3.5 mg/m3; Germany: 3.5 mg/m3;
Spain: 3.5 mg/m3; UK: 3.5 mg/m3; USA-OSHA: 3.5 mg/m3;

DNEL (Derived No Effect Level) for workers and the general population: No DNEL values available.
PNEC (Predicted No Effect Concentration) values: No PNEC values available.

Exposure controls:

Appropriate engineering controls:	Use process enclosures and/or exhaust ventilation to keep airborne dust concentrations below the applicable occupational exposure limit.
Appropriate engineering controls:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment:	
Eye and face protection:	Safety glasses or goggles are recommended as a matter of good practice.
Skin protection:	Wear general protective clothing to minimize skin contact. Work clothes should not be taken home and should be washed daily. No special glove composition is required for carbon black. Gloves may be used to protect hands from carbon black soiling. Use of a barrier cream may help to prevent skin drying. Wash hands and other exposed skin with mild soap and water.
Respiratory protection:	Approved air purifying respirator for particulates should be used where airborne dust concentrations are expected to exceed occupational exposure limits. Use a positive-pressure, air supplied respirator if there is any potential for uncontrolled release, exposure levels are not known, or in circumstances where APRs may not provide adequate protection. Use of respirators must include a complete respiratory protection program in accordance with national standards and current best practices.
Environmental exposure controls:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Industrial hygiene:	Emergency eyewash and safety shower should be in close proximity as a matter of good practice. Wash hands and face thoroughly with mild soap before eating and drinking.

9. Physical and Chemical Properties

Appearance:	Black solid (pellet or powder) at 20°C and 101.3 kPa
Colour:	Black
Odour:	Odourless
pH:	Not available.
Melting point:	Sublimates at 3652 and 3697 °C
Boiling point:	Ca. 4200 °C
Density:	1.8 - 2.1 g/cm3 at 20°C
Vapour pressure:	Negligible at 20°C
Partition coefficient (n-octanol/water):	Not applicable.
Solubility(ies):	In soluble in water and organic solvents.
Flash point:	Not applicable.
Auto-ignition temperature:	Not applicable.
Flammability:	Non-flammable.
Explosive properties:	No explosive properties.
Oxidizing properties:	No oxidizing properties
Other safety information:	no data available

10. Stability and Reactivity

Reactivity:	Stable under recommended storage and handling conditions (see section 7, handling and storage).
Chemical stability:	Stable under normal ambient conditions.
Possibility of hazardous reactions:	Will not occur.
Conditions to avoid:	Prevent exposure to strong heating, high temperatures and open flames.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide, oxides of sulfur.

11. Toxilogical Information

Toxicokinetics, metabolism and distribution:	No metabolite is relevant to carbon black. Carbon black does not retain in the body.
Information on toxicological effects Acute toxicity:	
Acute oral toxicity:	LD50 > 15400 mg/kg (rat);
Acute inhalation toxicity:	No data available.
Information on toxicological effectsAcute toxicity	LD50 Oral - rat - 3.161 mg/kg LD50 Dermal - rabbit - > 1.000 mg/kg
Acute dermal toxicity:	LD50 > 3000 mg/kg (rabbit);
Skin corrosion/irritation:	Skin Irritation - rabbit: not irritating.
Serious eye damage/irritation:	Eye Irritation - rabbit: not irritating.
Respiratory or skin sensitization:	No information available.
CMR effects (Carcinogenicity, Mutagenicity and Toxicity for Reproduction):	Carcinogenicity: IARC overall evaluation - possibly carcinogenic to humans (Group 2B). Mutagenicity: Most assays for mutagenicity are negative for carbon black Toxicity for Reproduction: No effects on reproductive organs of rats were reported.
STOT-single exposure and repeated exposure:	No information available.
Aspiration hazard:	No information available

12. Ecological Information

Toxicity	Toxicity to fish: LC50 > 10000 mg/l/96h (Danio rerio) Toxicity to daphnia: EC50 > 5600 mg/l/24h (Daphnia magna)

	Toxicity to algae: EC50 > 10000 mg/l/72h (Desmodesmus subspicatus)
Persistence and degradability:	Carbon black is neither photodegradable nor biodegradable.
Bioaccumulative potential:	Bioaccumulation of carbon black is not expected based on its insolubility in organic solvents and in water.
Mobility in soil :	Bioaccumulation of carbon black is not expected based on its insolubility in organic solvents and in water
Results of PBT and vPvB assessment :	Carbon black does not meet the criteria for identification as PBT or vPvB.
Other adverse effects	Carbon black does not cause acute harm to aquatic organisms.

13. Disposal Considerations

Waste treatment methods:	Product can be burned in suitable incineration plants or disposed of in a suitable landfill in accordance with the regulations issued by the appropriate federal, provincial, state and local authorities.
Contaminated packaging	Container/Packaging: Return reusable containers to manufacturer. Paper bags may be incinerated, or recycled, or disposed of in an appropriate landfill in accordance with national and local laws.

14. Transport Information

D.O.T. Shipping Name	Not dangerous goods
Air - ICAO (international Civil Aviation Organization)	Not dangerous goods
Sea - IMDG (International Maritime Dangerous Goods)	Not dangerous goods

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulation:

Authorisations:	No information available.
Restrictions on use:	No information available.
EINECS/ELINCS:	CAS# 1333-86-4 is listed.
DSD (67/548/EEC):	CAS# 1333-86-4 is not listed.

Other chemical regulation:

CAS No.	USA TSCA	Canada DSL	Australia AICS	Korea ECL	Japan ENCS	China IECSC
1333-86-4	Listed	Listed	Listed	Listed	Listed	Listed

Chemical Safety Assessment:	No Chemical Safety Assessment has been carried out for this substance.

California Prop 65:	Warning! This product contains a chemical known to the State of California to cause cancer.

16. Other Information

16.1 Revision Information

Date of the previous revision: 13/06/2011. Date of this revision: 16/11/2011.

Revision summary - Version: 2.0/EN:

Section 1.1, 3.1: Add REACH Registration Number (01-2119384822-32-0067);

The above information has been compiled from what we believe to be credible sources. To our knowledge the information is accurate and reliable, however, it is not guaranteed. Any recommendations issued by HB Chemical personnel or literature is derived from experience and by no means should be taken as fact or construed as a recommendation to violate of any law, regulation or patent. It is the users responsibility to determine the suitability of any HB supplied material in their application. The individual conditions of each customer are well outside of our control and we cannot be held liable for its functionality and use. Please contact our office should you need specific information beyond what is supplied above. As with all Chemical usage safety precautions beyond the stated are highly recommended.