



ARIHANT CHEMICAL CORPORATION & J.J ENTERPRISE

For paints / inks / plastic / Rubber industries Raw material available with us under self import / Manufacturing / Trading.

Material Safety data sheet :- Carbon black Printex -35

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

orion ENGINEERED CARBONS

CARBON BLACK

Material number	Version	1.1 / REG_EUR
Specification	Revision Date	24.09.2014
000001000048	Print Date	07.10.2014

Emergency telephone number +492233964999

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : CARBON BLACK

Trade name

AROSPERSE: 3, 3 SP, 5, 7, 11, 15, 19, 26, 138, 309, 320, 500, 5183 A, 5289, 7256, 7256 A, F138

Carbon Black: BB 30 K, BB 30 M, BT 20 L, BT 30, BT 30 L, BT 40, BT 40 L, BT 510, BT 540, BT 561, PBR 3, PBR 300, PBR 60, PBR G

COLOUR BLACK: FW 171

CORAX®: P 8451, P 9650

HIBLACK®: 5 L, 10, 20, 20 B, 20 BT, 20 L, 30, 30 B, 30 L, 33, 40 B1, 40 B2, 40 L, 41 Y, 45 LB, 49 L, 49 LB, 50 L, 50 LB, 150 B, 160 B, 170, 170 B, 200 B, 200 L, 300, 420 B, 430 H, 600 L, 600 LB, 890, 890 B, 930 L, 970 LB, SP1

LAMP BLACK 101

NIPex®: 35, 45, 60, 70, 90

PANTHER: 100, 205

PRINTEX®: 3, 6 C, 12, 25, 27, 30, 30 AB, 31, 35, 35 HC, 45, 55, 60, 60-A, 75, 80, 85, 90, 95, 200, 260, 300, 300 HC, 301, 301-A, 310, 314, A, alpha, alpha-A, alpha-SQ, F80, F85, F-alpha, FP, G, HV, L, L6, L6-SQ, MV, NATURE, P, P-A, XE2, XE2-B, zeta A

Registration number : REACH: 01-2119384822-32-0003, -0006, -0007, -0008, -0013, -0031, -0032, -0033, -0057, -0058

CAS-No. : 1333-86-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Coloured printing inks, Non-Impact Printing, Coatings, Paints and lacquers, Plastics, Spinning fibres, Special applications; Pigment, Conductivity, Reaction media, UV-filters

Recommended restrictions on use : Tattoo

1. Supplier: Manufactures

Arihant Chemical Corporation.

24/5, Krishna kunj bldg, behind arora

: Arora cinema, opp. Sahakari bhandar

Sewari wadala road, Matunga (C.R) Mumbai- 40019.

CELLULAR:-9820142066 – 9029042066

info@arihantchemcorp.com or nilesh@arihantchemcorp.com

Regd Off: - Plot no 24 Block no .5, 1st floor, Behind Aurora cinema , opp Sahakari bhandar, Matunga (C.R) Mumbai – 400019

Administration /correspondence Office :- Plot No. 319, Room No.3, Ranchoddas Terrace building ,sir Bhalchandra Road, opp Hira House, Near Chhatre Maternity Hospital, Matunga (C.R) Mumbai – 400019

Tel :- +91 22 24148378 / 24146390

Mob :- MR NILESH MEHTA +91 9820142066 / +91 8850378208/+91 9029042066

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

In 1995 IARC concluded, "There is inadequate evidence in humans for the carcinogenicity of Carbon Black." Based on rat inhalation studies IARC concluded that there is "sufficient evidence in experimental animals for the carcinogenicity of Carbon Black." IARC's overall evaluation was that "Carbon Black is possibly carcinogenic to humans (Group 2B)." This conclusion was based on IARC's guidelines, which require such a classification if one animal species exhibits carcinogenicity in two or more studies. Lung tumours in rats are the result of exposure under "lung overload" conditions. The development of lung tumours in rats is specific to this species. Mouse and hamster showed no carcinogenicity in similar studies.

In 2006 IARC re-affirmed its 1995 classification of Carbon Black as, Group 2B (possibly carcinogenic to humans).

Overall, as a result of the detailed epidemiological investigations, no causative link between Carbon Black exposure and cancer risk in humans has been demonstrated. This view is consistent with the IARC evaluation in 2006. Furthermore, several epidemiological and clinical studies of workers in the Carbon Black production industries show no evidence of clinically significant adverse health effects due to occupational exposure to Carbon Black. No dose response relationship was observed in workers exposed to Carbon Black.

Applying the rules of the Globally Harmonized System of Classification and Labelling (GHS, e.g. UN "Purple Book", EU CLP Regulation) the results of repeated dose toxicity and carcinogenicity studies in animals do not lead to classification of Carbon Black for Specific target organ toxicity (Repeated exposure) and carcinogenicity. UN GHS says, that even if adverse effects are seen in animal studies or in-vitro tests, no classification is needed if the mechanism or mode of action is not relevant to humans.2) The European CLP Regulation also mentions, that no classification is indicated, if the mechanism is not relevant to humans.3) Furthermore, the CLP guidance on classification and labelling states, that "lung overload" in animals is listed under mechanism not relevant to humans. 4), .

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.

2.2 Label elements

Further information : According to present data no classification and labelling is required according to Directives 67/548/EEC or 1999/45/EC. Labelling not required according to EU-CLP Ordinance (1272/2008).

2.3 Other hazards

Not a PBT, vPvB substance as per the criteria of the REACH Ordinance.

SECTION 3: Composition/information on ingredients

3.1 Substances

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Chemical nature : Substance

Composition / information on ingredients / hazardous components

Chemical Name	CAS-No. EC-No.	Concentration (%)
Carbon Black, amorphous	1333-86-4 215-609-9	100

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice :

If inhaled : Restore normal respiration with first aid measures as necessary.
 If cough, dyspnoea or other respiratory problems occur, bring exposed persons out into the fresh air. Consult a physician if symptoms persist.

In case of skin contact : Carefully wash off skin with soap and water. Consult a physician if symptoms occur.

In case of eye contact : Possible discomfort is due to foreign substance effect.
 Rinse thoroughly with plenty of water keeping eyelid open.
 In case of persistent discomfort: Consult an ophthalmologist.

If swallowed : Do not induce vomiting
 Rinse mouth with water.
 If conscious, drink plenty of water.
 Never give by mouth to anyone, who faints quickly, becomes unconscious or has cramps.
 After absorbing large amounts of substance / In case of discomfort: Supply with medical care.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : After absorbing large amounts of substance:
 Acceleration of gastrointestinal passage

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use foam, carbon dioxide (CO₂), nitrogen (N₂), dry chemical or water spray. Use of atomized spray is recommended if water is used.

Unsuitable extinguishing : Do not use full-force water jet in order to avoid dispersal and

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media spread of the fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : May be released in case of fire: carbon monoxide, carbon dioxide, sulphur oxides, organic products of decomposition.

5.3 Advice for firefighters

Special protective equipment for firefighters : In case of fire: wear a self contained respiratory apparatus

Further information : Carbon Black does not burn with an open flame and fire may not be noticed until material is poked to reveal visible sparks. Carbon Black that has burnt once should be observed carefully for at least 48 hours. Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Retention of fire-extinguishing water in Germany: see FireExtinguishing Water Retention Directive "LoeRueRL".

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Caution: Moist industrial soot causes dangerously slick surfaces. Avoid dust formation. Ensure sufficient ventilation. Use personal safety equipment. See also Section 8.

6.2 Environmental precautions

Environmental precautions : Do not allow material to enter the groundwater system. Product floats on water and does not dissolve. If possible, try to keep floating material together. If larger amounts of split material cannot be contained, local authorities should be informed. Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Vacuum up immediately. A vacuum cleaner with a high-efficiency filtration system is recommended. To avoid raising dust do not use brooms or compressed air. Collect and place in correctly labelled containers. For disposal see Section 13. Avoid dust formation.

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6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with eyes and skin. Do not inhale dust. Ensure sufficient ventilation and extraction at processing machines and locations where dust may form. Use no brooms or compressed air to avoid raising dust. Fine dust may cause electrical short circuiting or penetrate into electrical devices that are not completely sealed. Take measures to prevent electrostatic charging. If work under hot conditions is unavoidable (welding, torch cutting, etc.), the working area must be kept as free as possible of soot product and dust. Provide sufficient ventilation and exhaust at the workplace.

Advice on protection against fire and explosion : In closed containers such as silos or poorly ventilated store rooms, carbon monoxide may be present. For this reason, sources of ignition should be kept clear and respiratory equipment independent of surrounding air should be worn as a precautionary measure. When repairs of the production system are to be made (e.g. welding work), the section to be repaired must be essentially free of product. Take measures to prevent the build up of electrostatic charge. Keep away from sources of ignition - No smoking.

Hygiene measures : When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. To ensure ideal skin protection: use super fatted soaps and skin cream for skin care.

Dust explosion class : St1
Method
VDI 2263

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store cool and dry in a well-ventilated location. Keep away from heat and ignition sources. Do not store together with strong oxidants. Do not store together with volatile compounds, since they may be adsorbed. Store in correctly labelled containers.

7.3 Specific end use(s)

Specific use(s) : no

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

End Use: Worker

Exposure routes: inhalation (inhalable fraction)

Value: 2 mg/m³

Remarks: Information refers to carbon black

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

End Use: Worker

Exposure routes: inhalation (respirable fraction.)

Value: 0,5 mg/m³

Remarks: Information refers to carbon black

8.2 Exposure controls

Engineering measures

If dust occurs: Local ventilation.
see also section 7.

Personal protective equipment

Eye protection	: Safety glasses with side-shields If dust occurs: basket-shaped glasses
Hand protection	
Material	: Wear protective gloves made of the following materials: natural latex (NR), PVC, nitrile rubber (NBR).
Remarks	: The data about break through time/strength of material is not valid for undissolved solids/dust.
Skin and body protection	: When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. To ensure ideal skin protection: use super fatted soaps and skin cream for skin care. When handling larger quantities: chemical protective suit or disposable protective clothing If intensive contact with the hazardous material cannot be avoided with certainty, use (depending on the hazard involved) additional facial protection, apron, boots, rubber gloves or chemical protection suit. Remove and wash contaminated clothing before re-use.
Respiratory protection	: If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. Dust mask with P2 particle filter
Protective measures	: If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. Handle in accordance with good industrial hygiene and safety practice.

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Environmental exposure controls

Air : Knock down dust with water spray jet.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: solid, powder / beads
Colour	: black
Odour	: odourless
Odour Threshold	: Not applicable
pH	: ≥ 6.5 , Concentration: 50 g/l (20 °C)
Melting point/range	: > 3.000 °C
Boiling point/boiling range	: > 3.000 °C
Flash point	: Not applicable
Evaporation rate	: not determined
Flammability (solid, gas)	: 45 s Method: VDI 2263
Upper explosion limit	: not determined
Lower explosion limit	: 50 g/m ³ Medium: Dust Method: VDI 2263
Vapour pressure	: Remarks: Not applicable
Relative vapour density	: Not applicable
Density	: 1.7 - 1.9 g/cm ³ (20 °C)
Solubility(ies)	
Water solubility	: insoluble
Solubility in other solvents	: Description: insoluble
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: > 300 °C Method: VDI 2263

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Thermal decomposition	: > 250 °C
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Explosive properties	: Dusts can form explosive mixtures with air. see section 7.

9.2 Other information

Impact sensitivity	: Not impact sensitive.
Maximal absolute explosion pressure	: 10 bar Method: VDI 2263
Metal corrosion	: Remarks: not determined
Auto-flammability	: > 140 °C Method: IMDG-Code Remarks: Remark: volume-dependent parameter, measured temperature refers to the 1 l sample
Burning number	: 1 Method: Combustibility test in accordance with VDI 2263 Remarks: BZ 1 - does not ignite.

SECTION 10: Stability and reactivity

10.1 Reactivity

Carbon black cannot easily be caused to explode and therefore there is no danger in practical use., However, in special test procedures a carbon black/air mixture can explode.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions	: Carbon black cannot easily be caused to explode and therefore there is no danger in practical use. However, in special test procedures a carbon black/air mixture can explode. Take measures to prevent electrostatic discharges. Avoid dust formation. All metal parts of the mixing and processing machines must be earthed. Make sure all equipment is earthed before loading operations..
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10.4 Conditions to avoid

Conditions to avoid	: Avoid temperatures above 250°C.
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10.5 Incompatible materials

Materials to avoid : Avoid contact with strong oxidants.

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon monoxide
Carbon dioxide (CO₂)
organic products of decomposition
sulphoxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): > 8.000 mg/kg

Skin corrosion/irritation

Product:

Species: Rabbit
Result: not irritating
Remarks: index score 0.6/8

Serious eye damage/eye irritation

Product:

Species: Rabbit
Result: not irritating
Remarks: Draize score 10-17/110

Respiratory or skin sensitisation

Product:

Test Type: Buehler Test
Species: Guinea pig
Method: Buehler Test
Result: not sensitizing to the skin
Remarks: No evidence of sensitization was found in animals.
No cases of sensitization in humans have been reported.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: Carbon Black is not suitable to be tested in bacterial (Ames test) and other in vitro systems because of its insolubility. When tested, however, results for Carbon Black showed no mutagenic effects. Organic solvent extracts of Carbon Black can, however, contain traces of polycyclic

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aromatic hydrocarbons (PAHs). A study to examine the bioavailability of these PAHs showed that PAHs are very tightly bound to Carbon Black and not bioavailable 5).

Genotoxicity in vivo

: Remarks: In an experimental investigation, mutational changes in the hprt gene were reported in alveolar epithelial cells in the rat following inhalation exposure to Carbon Black. This observation is believed to be rat specific and a consequence of "lung overload" which led to chronic inflammation and release of genotoxic oxygen species.

Germ cell mutagenicity- Assessment

: Not a mutagen

Carcinogenicity

Product:

Species: Rat
Application Route: Oral
Exposure time: 2 years
Remarks: no tumours

Species: Rat
Application Route: inhalative
Exposure time: 2 years
Remarks: lungs / inflammation, fibrosis, tumours

Remarks: exposure under overload conditions

Remarks: Lung tumours in rats are the result of exposure under "lung overload" conditions. The development of lung tumours in rats is specific to this species. Mouse and hamster do not develop lung tumours under similar test conditions. The CLP guidance on classification and labelling states, that „lung overload“ in animals is listed under mechanism not relevant to humans. 4)

Species: Mouse
Application Route: Oral
Exposure time: 2 years
Remarks: no tumours

Species: Mouse
Application Route: dermal
Exposure time: 18 months
Remarks: no tumours

Carcinogenicity -
Assessment : Not carcinogenic

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Reproductive toxicity

Product:

Effects on fertility

: Remarks: No experimental studies on effects of Carbon Black on fertility and reproduction have been located. However, based on the toxicokinetics data, Carbon Black is deposited in the lungs and based on its specific chemical-physical properties (insolubility, low absorption potential), it is not likely to distribute in the body to reach reproductive organs, embryo and/or foetus under in vivo conditions. Therefore, no adverse effects of Carbon Black to fertility/reproduction are expected. No effects have been reported in long-term animal studies.

Effects on foetal development

: Remarks: No experimental studies on effects of Carbon Black on foetal development have been located. However, based on the toxicokinetics data, Carbon Black is deposited in the lungs and based on its specific chemical-physical properties (insolubility, low absorption potential), it is not likely to distribute in the body to reach reproductive organs, embryo and/or foetus under in vivo conditions. Therefore, no adverse effects of Carbon Black to foetal development are expected.

Reproductive toxicity - Assessment

: Not a reproductive toxin
Not a teratogen

STOT - single exposure

STOT - repeated exposure

Product:

Remarks: Effects in the rat lung are considered to be related to the "lung overload phenomenon" 1 & 6 & 7 & 8 & 9) rather than to a specific chemical effect of Carbon Black itself in the lung. These effects in rats have been reported in many studies on other poorly soluble inorganic particles.

Repeated dose toxicity

Product:

Species: Rat
NOAEL: 1 mg/m³
Application Route: inhalative
Exposure time: 90 Days Target Organs: lungs / inflammation, hyperplasia, fibrosis

Aspiration toxicity

Experience with human exposure

Product:

General Information:

Results of epidemiological studies of Carbon Black production workers suggest that cumulative exposure to Carbon Black may result in small decrements in lung function. A recent U.S. respiratory morbidity study suggested a 27 ml decline in FEV₁ from a 1 mg/m³ (inhalable fraction) exposure over a 40-year period. An older European investigation suggested that exposure to 1 mg/m³ (inhalable fraction) of Carbon Black over a 40-year working lifetime would result in a 48 ml decline in

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Tel :- +91 22 24148378 / 24146390

Mob :- MR NILESH MEHTA +91 9820142066 / +91 8850378208/+91 9029042066

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FEV1. However, the estimates from both studies were only of borderline statistical significance. Normal age-related decline over a similar period of time would be approximately 1200 ml.

General Information: The relationship between other respiratory symptoms and exposure to Carbon Black is even less clear. In the U.S. study, 9% of the highest exposure group (in contrast to 5% of the unexposed group) reported symptoms consistent with chronic bronchitis. In the European study, methodological limitations in the administration of the questionnaire limit the conclusions that can be drawn about reported symptoms. This study, however, indicated a link between Carbon Black and small opacities on chest films, with negligible effects on lung function.

General Information: A study on Carbon Black production workers in the UK 10) found an increased risk of lung cancer in two of the five plants studied; however, the increase was not related to the dose of Carbon Black. Thus, the authors did not consider the increased risk in lung cancer to be due to Carbon Black exposure. A German study of Carbon Black workers at one plant 11 & 12 & 13 & 14) found a similar increase in lung cancer risk but, like the 2001 UK study 10), found no association with Carbon Black exposure. In contrast, a large US study 15) of 18 plants showed a reduction in lung cancer risk in Carbon Black production workers. Based upon these studies, the February 2006 Working Group at IARC concluded that the human evidence for carcinogenicity was inadequate. 1)

General Information: Since this IARC evaluation of Carbon Black, Sorahan and Harrington 16) re-analyzed the UK study data using an alternative exposure hypothesis and found a positive association with Carbon Black exposure in two of the five plants. The same exposure hypothesis was applied by Morfeld and McCunney 17 & 18) to the German cohort; in contrast, they found no association between Carbon Black exposure and lung cancer risk and, thus, no support for the alternative exposure hypothesis used by Sorahan and Harrington 16) . Morfeld and McCunney 19) applied a Bayesian approach to unravel the role of uncontrolled confounders and identified smoking and prior exposure to occupational carcinogens received before being hired in the Carbon Black industry as main causes of the observed lung cancer excess risk.

General Information: Overall, as a result of these detailed investigations, no causative link between Carbon Black exposure and cancer risk in humans has been demonstrated. This view is consistent with the IARC evaluation in 2006.

General Information: Several epidemiological and clinical studies of workers in the Carbon Black production industries show no evidence of clinically significant adverse health effects due to occupational exposure to Carbon Black.

General Information: No dose response relationship was observed in workers exposed to Carbon Black.

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SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish Toxicity to daphnia and other aquatic invertebrates Toxicity to algae Toxicity to bacteria Ecotoxicology Assessment Acute aquatic toxicity Chronic aquatic toxicity Toxicity Data on Soil	: LC0 ((Brachydanio rerio)): 1.000 mg/l Exposure time: 96 hrs Method: OECD TG 203 : LC0 (Leuciscus idus melanotus): 5.000 mg/l Exposure time: 14 hrs Method: DIN 38412 Teil 15 : EC0 (Daphnia magna): 5.600 mg/l Exposure time: 24 hrs Method: OECD 202 : NOEC (scenedesmus subspicatus): 10.000 mg/l Exposure time: 3 Days Method: OECD 201 : EC 10 (local activated sludge): >= 800 mg/l Exposure time: 3 hrs Method: DEV L3 (TTC test) : Carbon Black is an inert, inorganic and water insoluble substance therefore its bioavailability for aquatic organisms is low. As an element it has not further reactive or functional groups and an acute toxicity is not expected. : Carbon Black is an inert, inorganic and water insoluble substance therefore its bioavailability for aquatic organisms is low. As an element it has not further reactive or functional groups and a chronic toxicity is not expected. : As an inert solid substance, insoluble in water and organic solvents diffusion through membranes or uptake and bioaccumulation to terrestrial organisms is not expected. Based on the available data, Carbon Black is not considered as toxic to terrestrial organism.
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12.2 Persistence and degradability

Product:

Biodegradability Physico-chemical removability	: Remarks: Carbon Black is substantially elemental carbon. The substance is inorganic and can not be further biodegraded by microorganisms : Remarks: Carbon Black is substantially elemental carbon. It is inert and contains no functional or water-soluble groups. It cannot be further degraded by hydrolysis, light or by photodegradation in air or in surface water.
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Impact on Sewage
Treatment

: Based on the available data, Carbon Black is not expected to interfere with the operation of sewage treatment plants.

12.3 Bioaccumulative potential

Product:

Bioaccumulation

: Remarks: Based on the physical-chemical properties of Carbon Black as an inert solid, its insolubility and stability in water and in organic solvents, diffusion through membranes of organisms and therefore bioaccumulation is not expected.

12.4 Mobility in soil

Product:

Stability in soil

: Remarks: Carbon Black is an inert solid. It is stable and insoluble in water or organic solvents. Its vapour pressure is negligible. Based on these properties it is expected that Carbon Black will not occur in air or water in relevant amounts. Also potential for distribution via water or air, respectively, can be dismissed. The deposition in soil or sediments is therefore the most relevant compartment of fate in the environment.

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: Not a PBT, vPvB substance as per the criteria of the REACH Ordinance..

12.6 Other adverse effects

Product:

Additional ecological
information

: No negative effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

: In accordance with local and national regulations. Observe national regulations.
No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer.
The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

Contaminated packaging

: Non-contaminated packaging may be re-used.
Contaminated packaging should ideally be emptied; it can

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then be recycled after having been decontaminated.
Packaging which cannot be decontaminated should be
disposed of like the material.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.
Non-activated carbon black of mineral origin.
No hazardous material of division 4.2

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Other regulations : All national and local regulations have to be followed.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance.
No Chemical Safety Report as per Articles 2(8), 2(9) or 14 of the REACH Ordinance is required for this product.
Not a hazardous substance or mixture.
Due to the lack of dangerous properties an exposure assessment is not necessary.

SECTION 16: Other information

Further information

Other information : REFERENCES

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Mob :- MR NILESH MEHTA +91 9820142066 / +91 8850378208/+91 9029042066

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Tel :- +91 22 24148378 / 24146390

Mob :- MR NILESH MEHTA +91 9820142066 / +91 8850378208/+91 9029042066

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Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Tel :- +91 22 24148378 / 24146390

Mob :- MR NILESH MEHTA +91 9820142066 / +91 8850378208/+91 9029042066

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Mob :- MR NILESH MEHTA +91 9820142066 / +91 8850378208/+91 9029042066

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Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration Factor
BetrSichV	German Ordinance on Industrial Safety and Health
c. c.	closed cup (geschlossenes Gefäß)
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	Carcinogenic-Mutagenic-toxic for Reproduction
DIN	German Institute for Standardization
DNEL	Derived No Effect Level
EINECS	European Inventory of Existing Commercial Chemical Substances
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA DGR	International Air Transport Association – Dangerous Goods Regulations
ICAO-TI	International Civil Aviation Organisation - Technical Instructions
IMDG Code	International Maritime Dangerous Goods Code
ISO	International Organization For Standardization
LOAEL	Lowest Observed Adverse Effect Level
LOEL	Lowest Observed Effect Level
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
c. c.	open cup (offenes Gefäß)
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative, Toxic
PEC	Predicted Effect Concentration
PNEC	Predicted No Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TA	Technical Instructions (German Ordinance)
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances (German Regulations)
VCI	German "Verband der Chemischen Industrie e. V."
vPvB	Very Persistent, Very Bioaccumulative
VOC	Volatile Organic Compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	German Water Hazard Class
WHO	World Health Organization

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