



MATERIAL SAFETY DATA SHEET

Tata Black

Section I - IDENTIFICATION

Name of the firm : The Tata Pigments Ltd.
Mailing address : Sakchi Boulevard, Jamshedpur. 831002
Contact person : Mr. O.P. Gupta
Standard packing : 1kg, 0.50 Kg, 25 kg Poly packs with inside lines
Telephone Nos. : 91-657-2290273-275, Ext-229
Fax : 91-657-2290271-272, 276
E mail : rnd@tatapigments.co.in
Chemical name : carbon black
Chemical formula : C
Commercial Name : Tata Black

SECTION II – INGREDIENTS

COMPONENTS	Concentration	Criterion & Value
It is an elemental carbon	Approx 100%	amorphous ACGIH(TLV-8hr.TWA)
It does not have Any hazardous.	Carbon	3.5 mg/m ³
Components or element	OSHA(PEL-8hrTWA)	3.5 mg/m ³

And Extender

SECTION III – PHYSICAL DATA

Specific gravity : 1.7-1.9 bulk density (kg/m³) : 80-600
Boiling point °C : 3000 % Volatile by volume : NA
Vapour pressure : NA Evaporation rate : NA
Solubility in water : soluble pH of slurry, 50mg/lit : 6-8
Appearance & odour : black amorphous solid, odourless

SECTION IV– FIRE & EXPLOSION HAZARD DATA

Flash point : NA Extinguishing media : Water
Ignition temp : min 315°C Special fire fighting procedure:
Explosion limit 50mg/m³
Normal fog or nozzle jet application of water and/or exclusion of air
Thermal decomposition: 3000°C

SECTION V– HEALTH HAZARD INFORMATION

Safety regulation : TLV: 5mg/m³
LCV: Not carcinogenic
Routes of exposure
Inhalation : this is the primary route of entry. If overexposure occur, move to fresh air,
Wear NIOSH approved respirator if level of carbon black in air exceeds 3.5 mg/m³
Ingestion : No recognized health hazard. Unlikely route of exposure
Skin : Carbon black is not absorbed through the skin. For hygienic purpose , wash exposed skin with soap and water.

TATA PIGMENTS LIMITED

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Effects of overexposure:

Accute :

Nothing other than possible temporary discomfort due to inhalation of dust concentration above permissible exposure limit.

Chronic:

Nothing recognized for humans. Contains trace amount of absorbed poly nuclear aromatic compounds (PNA). In non absorbed form, some PNA's have been found to be carcinogens in certain studies. Chronic inflammation, and fibrosis and malignant lung tumors have been found in rats experimentally exposed for long periods of time to excessive concentration of carbon black and other insoluble dust particles which overwhelm the lung clearance mechanisms. The researchers who conducted these tests believe that these diseases most likely result from the massive accumulation of small dust particles in the lung the lung overload phenomenon. Rather than form a specific chemical effect of carbon black. Such effects occur only when the lungs are overloaded with excess of small particles. Human studies have not found that work place exposure to carbon black at or below the TVL causes these effects. Not listed in NTP annual report on carcinogens. Epidemiological studies of workers in carbon black producing industry show no significant health effects due to occupational exposure. Listed in OSHA 29 CFR 1910.1000 Table Z-1

SECTION VI- REACTIVITY DATA

Stability : stable

Hazardous polymerization : NA

Decomposition products :Carbon monoxide, carbon dioxide, sulphur dioxide when burning excessive

Conditions to avoid :Excessive heat & strong oxidizers such as chlorates, Bromates, Nitrates

SECTION VII- SPILL OR LEAK

Steps in case of spill : can be treated as ordinary dust or dirt, waste.

Disposal method: can be disposed off as normal waste, while handling dust mask shall be put on

SECTION VIII – HANDLING AND USE INFORMATION

Respirator protection : None required for normal handling. Wear NIOSH approved respirator for nuisance dust if levels exceed the PEL

Ventilation :Sufficient ventilation in volume and distribution to exposure below PEL.

SECTION IX - PERSONAL PROTECTIVE EQUIPMENTS

Gloves : not required

Eye protection : Appropriate protection recommended as a responsible work practice, all through carbon black produces no known serious eye effect

Hygienic practice ; wash exposed skin with soap and water

SECTION X - SPECIAL PRECAUTIONS

The following precautions to be taken in handling and storage

1. Keep material in closed containers
2. Wear appropriate respirator if PEL will be exceeded.
3. Before entering confined spaces, test carbon monoxide and oxygen concentrations.

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