1. **Identification of substance and of the company**

Product Name: CARBON PIGMENT W

Company: DEMTAS PİGMENT VE KİMYEVİ MADDELER İMALAT SAN VE DIŞ TİC LTD ŞTİ
Telephone: +90 216 4791340

2. **Composition/Data on components**

Chemical characterization:
Carbon Black for Rubber/Plastics/Paints/Ink Industries are being manufactured by Oil Furnace Process. CAS. No. 1333-86-4

Dangerous components:
None

3. HAZARDS IDENTIFICATION

Most important hazards : Carbon Black is Non hazardous
Adverse Human Health Effect: Carbon Black contains less than 0.1% of adsorbed Polynuclear aromatic hydrocarbon compounds (PNAH) . No carcinogenic effect, however has been found in human due to exposure of carbon black
Effect of exposure :
a) Skin – Non significant
b)Inhalation – Non expected. Temporary discomfort to upper respiratory track may occur due to inhalation of dust concentration. Above the Threshold Limit Value (TLV) carbon black like any nuisance dust, may aggravate certain pre existing upper respiratory disorder such as bronchitis or asthma
c)Eye protection – Protection required as dust protection

Environmental Effect: Carbon Black pellets are not hazardous waste, wear approved dust protection respirator, if needed spill to be removed through vacuum cleaning/dust sweeping machine or spraying sprinkle water and sweeping the mixture into a suitable container. Disposal method includes burn or bury in accordance with National, State and Local Laws & Regulations.

Physical and Chemical Hazards: Not applicable. Carbon Black is amorphous, solid, insoluble in water. Air Borne exposure limit 3.5 mg/m3

HMIS Index :	
0.	Minimal
1.	Slight
3.	Moderate
4.	Severe

Fire & Explosion Hazard: i) Flammability – Ignition in air above 600°F or 315°C .
ii) Flammable Explosion Limit – Not applicable

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iii) Flash point – Not applicable

HMIS Rating :	
0.	Health
1.	Flammability
0.	Reactivity.

4. First Aid measures

Inhalation – For inhalation discomfort, move victim to fresh air.
Skin Contact – Non significant, wash with mild soap.
Eye contact – Non significant, wash with fresh water
Ingestion – Non significant

Note – Wear gloves during handling, eye protection required, wear approved respirator for nuisance dust when dust levels exceeds TLV.

5. Fire fighting measures

Specific Hazards – Not applicable, ignition in air above 600°F or 315°C, Carbon Monoxide & Carbon dioxide are the products of combustion.
Specific Methods- Normal fog or nozzle jet application and or exclusion of air, normal extinguishing media: Copious water.
Protection of Fire Fighter – Appropriate respirator for protection against possible exposure to CO & CO2

6. Accidental release

Personal Precaution – As per First Aid Measure, Item No. 4.
Environmental Precautions – i) Dust nuisance/well ventilated, area should be ideal
ii) Spill may occur, carbon black pellets are non hazardous.
Methods for Cleaning Up – i) Recovery – Spill to be recovered by vacuum cleaning or spraying water (a little) & transfer the mixture into a suitable container.
ii) Neutralization- Not applicable
iii) Disposal – Disposal method includes burn in Incinerator or to bury in accordance with National, State and local laws.

7. Handling and storage

Handling –
Technical Measures –
Precautions – (a) Eye protection required as normal dust protection.
(b) Cotton gloves required during handling.
(c) Before entering close vessels and confined spaces, test for CO required, wear appropriate respirator to guard against possible exposure to Carbon Monoxide.

Prevention of Fire & Explosion – Excessive heat/flame to be avoided, may react upon contact with strong oxidizers. Orient Black pellets are not explosive under normal condition in air.

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Storage Condition – Store in ventilated area under shed in warehouse @ 25°C temperature & 65% Relative Humidity.
Packaging Material – Paper Bag (25 kg) and Bulk Bag (500 kg to 1150 kg), Material of Construction Polypropylene.

8. Exposure controls/personal protection

Engineering Measures
Control Parameters – (a) Limit values - Not Applicable.
(b) Biological Standards – Not Applicable.
(c) Recommended Monitoring Procedures – Not Applicable.
Personal Protective Equipment - (a) Respiratory Protection – Required.
(b) Hand Protection – Required.
© Eye Protection – Required.
(d) Skin & Body Protection – Only dust nuisance to be washed with mild soap.
Hygiene Measures – Wash exposed skin for hygienic purposes

9. Physical and chemical properties

Physical State – Solid Form – Granules Colour – Black Odour – Odourless
PH - >6
Boiling/Melting/Sublimation point – Not applicable
Decomposition temperature – >315°C
Flash point – Not applicable (Method – Closed cup)
Auto ignition temperature – Ignition in air above 315°C
Lower explosion limit – Not applicable
Upper explosion limit – Not applicable
Vapour pressure – Not applicable
Bulk density – 20-550 kg/m3
Density (at 20°C) – 1.7-1.9 gm/lit.
Solubility – Insoluble in water
Partition co-efficient (Octanol/water) – Not applicable

10. Stability and reactivity

Stability – Stable under normal ambient condition, decompose at >315°C
Hazardous reaction – Will not occur.
Conditions to avoid – Prevent exposure to high temperature (>300°C) and open flame.
Materials to avoid – Strong oxidizers such as chlorates, bromates and nitrates
Hazardous Decomposition – May form toxic materials such as CO & CO2

11. Toxicological Information

Acute toxicity – Acute oral toxicity : LD50 (rat) >8000 mg/kg

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Local Effects – Primary irritation : Skin (rabbit) non-irritant, index score 0.6/8 (4 = severe edema)
Eye (rabbit) non-irritant, Draize score 10-17/110 (100= Maximum Irritation)
Sensitization – No animal data available
Chronic Toxicity – Rat, inhalation, duration: 2 years. Target organ – Lungs
Effect – Inflammation, fibrosis, tumors.
Note:- Tumors have not been observed in other species (eg. mouse & hamstar) for carbon black under similar circumstances and study condition.
Carcinogenicity – Rat (oral) duration : 2 years, no tumors
Mouse (oral), duration: 2 years, no tumors
Mouse (dermal) duration: 12-18 months, no skin tumors.
Specific effects – 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.

12. Ecological information

Possible Environmental Effects, behavior and fate:-
Mobility – Not soluble in water
Persistence/Degradability – Behavior in water treatment plants: Activated sludge, ECO(3 hr)>800 mg/l
DEV L3 (TTC test)
Bio-accumulation – Potential bio-accumulation is not expected because of physiochemical properties of the substance.
Ecotoxicity: Aquatic toxicity: Acute algae toxicity: EC 50(72 hr) >10000 mg/l, NOEC 50≥10000 mg/l
Acute fish toxicity : LC50(96 hr)>1000 mg/l
Acute water flea toxicity : EC50(24 hr) >5600 mg/l

13. Disposal considerations

Waste from residues – Can be burned in suitable incineration plants or disposed of in a suitable landfill in accordance with regulations issued by the appropriate federal, provincial, state and local authorities.
Contaminated packaging – Contaminated packaging should ideally be emptied; it can then be recycled after having been decontaminated. Packaging which can not be decontaminated should be disposed of like the material.

14. Transport information

International Regulations – The International Marine Dangerous Goods (IMDG) code does not classify carbon black as a hazardous cargo, under special provision 925 for carbon, non-activated, mineral origin under IMDG code, 2002 edition (Amdt. 31-02). Carbon Black N326 is also non activated carbon, mineral origin, as per IMDG code 2002 edition, published by IMO, London.
Land - The Bureau of Explosives of the Association of American Railroads has ruled it is unnecessary to classify carbon black as hazardous under DOT regulations. Carbon black is moved as a non-hazardous material by rail.
Inland waterways – Not classified as dangerous goods
Sea – IMDG does not classify as dangerous goods.
Air – Not classified.

Un Classification Number – Not classified.
Additional transport regulations – Not classified.
Specific precautionary transport measures – Not required.

15. **Regulatory information**

Carbon Black CAS No. 1333-86-4 appears on TCSA Inventory (U.S.), EINECS (Europe), CEPA (Canada), MITI(Japan) & AICS (Australia)as a chemical of commerce in this jurisdiction.

16. Further information:

NFPA (National Fire Protection Association) Rating:-
Health:0, Flammability:1, Reactivity:0 [0= minimal, 1=slight, 2=moderate, 3=serious, 4 = severe]
General- The carbon black industry continues to sponsor research designed to identify adverse health effects from long term exposure to carbon black.

demtaş
PİGMENT VE KİMYEVİ MADDELER
İMALAT SAN. VE DIŞ TİC. LTD. ŞTİ.

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Technical Data of CARBON PIGMENT W

General Description: Color index: Pigment black 7
Cas No.: 1333-86-4
EINECS NO.: 215-609-9

Average original particle size (nm)		29
Bet Surface Area	m2/g	78
Oil Absorption Number (OAN)	cc/100g	100
Relative Tint Strength (IRB 3 = 100%)	%	105
PH Value		8.0
Volatile Matter at 950℃	%	1.5
Appearance		Fluffy Form
Color difference		≤0.5
Tinting Strength	%	100±5

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Company : Demtaş Pigment ve Kimyevi Maddeler LTD. Adına Çin'de üretilmiştir.

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