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SECTION 1: Identification

Product Identifier

Product Name: Compound Black Pigment

Product code: Fine Black 150X

Recommended Use of the Product and Restriction on Use

Relevant Identified Uses: Pigment

Uses Advised Against: Any use other than recommended above.

Reasons Why Uses Advised Against: Not determined or not applicable.

Manufacturer or Supplier Details

Manufacturer:

Turkey

Demtaş Pigment Ve Kimyevi Maddeler İmalat San. Ve Dış Tic. Ltd. Şti' K.O.S.B AYDINLI NEIGHBORHOOD. AROMATIK STREET NO:41 TUZLA, ISTANBUL 34913 +90 216 479 13 40 / Emergency: +90 530 665 13 13

Emergency Telephone Number:

United States

CHEMTREC

+90 530 665 13 13 (24 hours)

SECTION 2: Hazard(s) Identification

GHS Classification:

Acute toxicity (oral), category 4 Acute toxicity (inhalation), category 4 Carcinogenicity, category 2 Specific target organ toxicity - repeated exposure, category 2 Combustible Dust

Label elements

Hazard Pictograms:





Signal Word: Warning

Hazard statements:

Combustible Dust May form combustible dust concentrations in air.

H351 Suspected of causing cancer via inhalation

H373 May cause damage to organs through prolonged or repeated exposure

H302 Harmful if swallowed H332 Harmful if inhaled





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Precautionary Statements:

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

P280 Wear protective gloves/protective clothing/eye protection/face protection

P260 Do not breathe dust or fumes

P264 Wash any exposed skin thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P271 Use only outdoors or in a well-ventilated area

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P330 Rinse mouth

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P312 Call a POISON CENTER/doctor if you feel unwell

P308+P313 IF exposed or concerned: Get medical advice/attention

P314 Get medical advice/attention if you feel unwell

P405 Store locked up

P501 Dispose of contents and container in accordance with local, regional, national, and international regulations

Hazards Not Otherwise Classified:

Airborne dust may cause mechanical irritation/abrasion of the skin, eyes and respiratory tract.

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 1333-86-4	Carbon Black	45-55
CAS Number: 1313-13-9	Manganese dioxide	20-30
CAS Number: 1317-61-9	Triiron tetraoxide	15-25

Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR \$1910.1200).

SECTION 4: First Aid Measures

Description of First Aid Measures

General Notes:

Show this Safety Data Sheet to the doctor in attendance. Take precautions to ensure your own safety before attempting rescue. Wear appropriate safety eyewear, gloves, protective clothing and respiratory protection to prevent exposure. See Section 8 of this SDS for personal protective equipment recommendations. Do not use the mouth to mouth method if victim has ingested or inhaled the product. Give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper device.

After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention.





After Skin Contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

After Eye Contact:

Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

After Swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Most Important Symptoms and Effects, Both Acute and Delayed Acute Symptoms and Effects:

Acute inhalation exposure may lead to an inflammatory response in the lungs, cough, breathing difficulties, dizziness, headache and lowering of consciousness.

Acute oral exposure may lead to nausea, vomiting, abdominal pain, dizziness, drowsiness, headache and lowering of consciousness.

Inhalation of large amounts of dust may cause inflammation and irritation of the nose and throat. Symptoms may include cough, sore throat, tightness of the chest, chest pain and lightheadedness. Airborne dust may cause mechanical irritation/abrasion of the eyes. Symptoms include pain, tearing, redness, blurred vision, inflammation and feeling of foreign object in eye.

Airborne dust may cause mechanical irritation/abrasion of the skin. Symptoms include redness, itching and inflammation.

Delayed Symptoms and Effects:

Symptoms of exposure may be delayed.

Suspected of causing cancer. Carbon black is a suspected human carcinogen. It is listed by the International Agency for Research on Cancer (IARC) as a group 2B substance (possibly carcinogenic to humans).

May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated exposure to manganese oxide dust and fumes may adversely affect the lungs, resulting in increased susceptibility to bronchitis and pneumonitis. Long-term, prolonged or repeated exposure may cause damage to the central nervous system and brain. Exposure to manganese dust or fumes can also lead to a neurological condition called manganism. Manganism's symptoms, similar to those of Parkinson's disease, may include the following: trembling, stiffness, slow motor movement and potentially severe depression, anxiety and hostility. Inhalation of excessive concentrations of iron and iron oxide dust and fume may enhance the risk of lung cancer development in workers exposed to carcinogens.

Immediate Medical Attention and Special Treatment

Specific Treatment:

Over-exposure via inhalation or ingestion require prompt medical attention/treatment.

Notes for the Doctor:

Treat symptomatically.





SECTION 5: Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media:

Dry chemical, sand and carbon dioxide.

Unsuitable Extinguishing Media:

Do not use water jet.

Specific Hazards During Fire-Fighting:

Finely divided particles may form combustible dust concentrations in air. Thermal decomposition may produce irritating and toxic fumes including carbon oxides, manganese oxides and iron oxides.

Special Protective Equipment for Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode. Use shielding to protect against bursting containers.

Special precautions:

When using extinguishers, avoid dispersing combustible dust into the air. Aim extinguishers directly at the base of the flames and apply the agent as gently as possible. Overall, give preference to using medium to wide spray patterns rather than solid streams. Use only non-sparking tools. Fire fight from a protected location or maximum possible distance. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Extinguish any sources of ignition. Wear recommended personal protective equipment including suitable respiratory protection (see Section 8). Ensure no sources of electric discharge or ignition are on your person before entering area. Avoid generation and dispersal of dust. Do not get on skin, eyes or on clothing. Do not breath dust or fumes. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Methods and Material for Containment and Cleaning Up:

Avoid dust generation or stirring up of dust. Use only non-sparking tools. Ground all equipment used for recovery and clean up. Sweep or vacuum spilled material and place in suitable containers for future disposal. If appropriate, moisten first to prevent dusting while sweeping. Only use vacuum cleaners approved for dust collection. Dispose of in accordance with all applicable regulations (see Section 13).

Reference to Other Sections:

For personal protective equipment see Section 8. For disposal see Section 13.





SECTION 7: Handling and Storage

Precautions for Safe Handling:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Do not breath dust or fume. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Use dust explosion proof electrical equipment and lighting. Avoid dust generation and dispersal of dust in air. Dust deposits should not be allowed to accumulate on surfaces. Clean dust residues at regular intervals. Do not use brooms or compressed air hoses to clean surfaces. Only use vacuums approved for dust collection. Use only non-sparking tools. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions such as electrical grounding and bonding or inner atmospheres. Keep containers tightly closed and grounded when not in use. Workers whose clothing may have been contaminated should change into non-contaminated clothing before leaving the work premises. Contaminated clothing should be segregated in such a manner so that there is no direct personal contact by personnel who handle, dispose or clean the clothing. Contaminated clothing should not be allowed out of the workplace. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10).

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).





IMALAT SAN VE DISTIC LTD STI SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below. Occupational Exposure Limit Values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Carbon Black	1333-86-4	8-Hour TWA: 3 mg/m³ (inhalable particulate matter)
	Triiron tetraoxide	1317-61-9	8-Hour TWA: 5 mg/m³ (Iron oxide fume, respirable particulate matter)
	Manganese dioxide	1313-13-9	8-Hour TWA: 0.02 mg/m³ (Manganese, compounds and fume, as Mn, respirable particulate matter)
	Manganese dioxide	1313-13-9	8-Hour TWA: 0.1 mg/m³ (Manganese, compounds and fume, as Mn, inhalable particulate matter)
NIOSH	Carbon Black	1333-86-4	REL-TWA: 3.5 mg/m³ (up to 10 hr)
	Carbon Black	1333-86-4	IDLH: 1750 mg/m ³
	Carbon Black	1333-86-4	REL-TWA: 0.1 mg/m³ (in the presence of polycyclic aromatic hydrocarbons [up to 10 hr])
	Triiron tetraoxide	1317-61-9	REL-TWA: 5 mg/m³ (Iron oxide fume up to 10 hrs.)
	Triiron tetraoxide	1317-61-9	IDLH: 2500 mg/m³ (Iron oxide fume)
	Manganese dioxide	1313-13-9	REL-TWA: 1 mg/m ³ (Manganese, compounds and fume, as Mn [up to 10 hr])
	Manganese dioxide	1313-13-9	IDLH: 500 mg/m ³
OSHA	Carbon Black	1333-86-4	8-Hour TWA-PEL: 3.5 mg/m ³
	Triiron tetraoxide	1317-61-9	8-Hour TWA-PEL: 10 mg/m ³ (Iron oxide fume)
	Manganese dioxide	1313-13-9	PEL Ceiling: 5 mg/m ³ (Manganese, compounds and fume, as Mn)
United States(California)	Carbon Black	1333-86-4	8-Hour TWA-PEL: 3.5 mg/m ³
	Triiron tetraoxide	1317-61-9	8-Hour TWA-PEL: 5 mg/m ³
	Manganese dioxide	1313-13-9	8-Hour TWA-PEL: 0.2 mg/m ³ (Manganese, compounds and fume, as Mn)

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Manganese dioxide		15-Minute STEL: 3 mg/m ³ (Manganese, compounds and fume, as Mn)





Biological Limit Values:

No biological exposure limits noted for the ingredient(s).

Information on Monitoring Procedures:

Not determined or not applicable.

Appropriate Engineering Controls:

This product is a combustible material which may be ignited by friction, heat, sparks or flames. It is recommended that all dust control equipment (such as local exhaust ventilation and material transport systems) involved in handling this product contain explosion relief vents or an explosion suppression system. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area. Keep static electricity under control, which includes the bonding and grounding of equipment. Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal Protection Equipment

Eye and Face Protection:

Use safety glasses with side shields or goggles. Do not wear contact lenses when handling or processing this product. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Contaminated clothing should be removed and separated for decontamination. Do not allow contaminated work clothing out of the workplace. Perform routine housekeeping.





SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Appearance	Black granules/powder
Odor	Odorless
Odor threshold	Not determined or not available.
рН	>6
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	1.7 - 1/9 g/L @ 20 °C
Relative density	Not determined or not available.
Solubilities	Insoluble in water.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	> 315 °C (> 599 °F)
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

SECTION 10: Stability and Reactivity

Reactivity:

Not reactive under recommended handling and storage conditions.

Chemical Stability:

Stable under recommended handling and storage conditions.

Possibility of Hazardous Reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to Avoid:

Extreme heat, open flames, hot surfaces, sparks, static discharge, ignition sources, dust generation and accumulation and incompatible materials.

Incompatible Materials:

Oxidizing agents; Combustible materials

Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.





SECTION 11: Toxicological Information

Acute Toxicity

Assessment:

Harmful if swallowed. Harmful if inhaled.

Product Data: No data available.

Substance Data:

Name	Route	Result
Carbon Black	oral	LD50 Rat: >2000 mg/kg
	dermal	LD50 Rabbit: >3000 mg/kg
Triiron tetraoxide	oral	LD50 Rat: > 5000 mg/kg
	inhalation	LC50 Rat: 5.05 mg/L (4h [Aerosol - discrinimating dose])
Manganese dioxide	oral	LD50 Rat: 500 mg/kg
	inhalation	LC50 Rabbit: 1.5 mg/L

Skin Corrosion/Irritation

Assessment: Based on available data, the classification criteria are not met.

Product Data:No data available.

Substance Data: No data available.

Serious Eye Damage/Irritation

Assessment: Based on available data, the classification criteria are not met.

Product Data:No data available.

Substance Data: No data available. Respiratory or Skin Sensitization

Assessment: Based on available data, the classification criteria are not met.

Product Data:No data available.

Substance Data: No data available.

F: +90 216 479 13 41





Carcinogenicity

Assessment:

Suspected of causing cancer. **Product Data:** No data available.

Substance Data:

Name	Species	Result
Carbon Black	Not applicable	Suspected of causing cancer by inhalation exposure route.

International Agency for Research on Cancer (IARC):

Name	Classification
Carbon Black	Group 2B

National Toxicology Program (NTP): None of the ingredients are listed.

OSHA Carcinogens: Not applicable

Germ Cell Mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:No data available.

Substance Data: No data available.

Reproductive Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:No data available.

Substance Data: No data available.

Specific Target Organ Toxicity (Single Exposure)

Assessment: Based on available data, the classification criteria are not met.

Product Data:No data available.

Substance Data: No data available.

Specific Target Organ Toxicity (Repeated Exposure)

Assessment:

May cause damage to organs through prolonged or repeated exposure.

Product Data: No data available. Substance Data:

Name	Result
	Prolonged or repeated exposure may adversely affect the lungs, resulting in increased susceptibility to bronchitis and pneumonitis. Long-term, prolonged or repeated exposure may cause damage to the central nervous system and brain.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:No data available.

Substance Data: No data available.

Tuzla Kimyacılar Org. San. Bölg. Melek Aras Bulvarı Aromatik Cad. No:41 Tuzla / İstanbul / TURKEY T: +90 216 479 13 40

F: +90 216 479 13 41





Information on Likely Routes of Exposure:

Inhalation; Ingestion; Skin contact; Eye contact

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

Refer to Section 4 of this SDS.

Other Information: No data available.

SECTION 12: Ecological Information

Acute (Short-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Result
Carbon Black	Fish LC50 Danio rerio: >1000 mg/L (96 h)
	Aquatic Plants EC50 Desmodesmus subspicatus: >10000 mg/L (72 h)
Triiron tetraoxide	Aquatic Invertebrates EC50 Daphnia magna: > 100 mg/L (48 hr [mobility; read-across])
	Aquatic Plants EC50 Raphidocelis subcapitata: > 20 mg/L (72 hr [growth rate; read-across])
	Fish LC50 Danio rerio: >10,000 mg/L (96 hr [read-across])
Manganese dioxide	Aquatic Invertebrates EC50 Daphnia magna: >0.0735 mg/L (48 hr [mobility])

Chronic (Long-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Result
	Aquatic Invertebrates NOEC Daphnia magna: >= 20 mg/L (21 d [reproduction; read-across])

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
Carbon Black	Carbon black is an inorganic substance and will not be biodegraded by microorganisms.
Triiron tetraoxide	Persistence assessment based on biodegradability is not relevant for metals and their inorganic compounds such as this substance.
Manganese dioxide	Biodegradation studes do not apply to inorganic substances.

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result
Carbon Black	Bioaccumulation is not expected to occur.
Triiron tetraoxide	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for essential elements/metals such as this substances. S





Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
	Mobility in soil assessment based on KOC/Kd values are not relevant for metals and their inorganic compounds such as this substance.

Results of PBT and vPvB assessment

Product Data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT. vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance Data:

PBT assessment:

Carbon Black	This substance is not PBT.
	PBT assessment does not apply to metals and their inorganic compounds such as this substance.
Manganese dioxide	PBT assessment does not apply to inorganic substances.

vPvB assessment:

Carbon Black	This substance is not vPvB.
	vPvB assessment does not apply to metals and their inorganic compounds such as this substance.
Manganese dioxide	vPvB assessment does not apply to inorganic substances.

Other Adverse Effects: No data available.

SECTION 13: Disposal Considerations

Disposal Methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies. Dispose of in accordance with all applicable local, regional, state and federal regulations.

Contaminated packages:

Not determined or not applicable.





SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

International Maritime Dangerous Goods (IMDG)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

SECTION 15: Regulatory Information

United States Regulations

Inventory Listing (TSCA): All ingredients are listed-active or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export Notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 Extremely Hazardous Substances: None of the ingredients are listed.

SARA Section 313 Toxic Chemicals:

	1313-13-9	Manganese dioxide		Listed
CEF	RCLA:			
	1313-13-9	Manganese dioxide	Listed	NA

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

1333-86-4	Carbon Black	Listed
1.3.3.3-00-4	Cardon black	itistea





New Jersey Right to Know:

1333-86-4	Carbon Black	Listed
1313-13-9	Manganese dioxide	Listed

New York Right to Know:

1313-13-9	Manganese dioxide	Listed
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Pennsylvania Right to Know:

1333-86-4	Carbon Black	Listed
1313-13-9	Manganese dioxide	Listed

California Proposition 65:

<u>^</u>WARNING: This product can expose you to Carbon black (airborne, unbound particles of respirable size); which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Additional information: Not determined.

SECTION 16: Other Information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

Initial Preparation Date: 01.13.2023

End of Safety Data Sheet