



## SAFETY DATA SHEET

### Synthetic Iron Oxide Black Pigment

#### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

**PRODUCT NAME** Synthetic Iron Oxide Black

**PRODUCT NO.** Synthetic Black Oxide

**SYNONYMS, TRADE NAMES** T-330

**MAILING ADDRESS** SAKCHI BOULEVARD  
P.O – TATANAGAR  
JAMSHEDPUR – 831002, INDIA  
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#### 2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content of Fe <sub>2</sub> O <sub>3</sub>	Classification
Black Iron Oxide	235-442-5	1317-61-9	94% min	-

#### COMPOSITION COMMENTS

Inorganic Powder. Fe<sub>3</sub>O<sub>4</sub> C.I. Pigment Black , C.I. No. 77499  
Alternative CAS No.: 1317-61-9 Alternative EINECS No.: 235-442-5

#### 3 HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

#### 4 FIRST-AID MEASURES

##### GENERAL INFORMATION

Contaminated clothing should be removed and washed before being re-used.

##### INHALATION

Remove victim immediately from source of exposure. Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

##### INGESTION

Rinse mouth thoroughly with water. Victims who are not unconscious should drink large quantities of milk or water, or self induce Vomiting (e.g. by sticking own finger into the throat). NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention if any discomfort continues.

##### SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

##### EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

#### 5 FIRE-FIGHTING MEASURES

##### EXTINGUISHING MEDIA

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

##### SPECIAL FIRE FIGHTING PROCEDURES

No specific fire fighting procedure given.

##### UNUSUAL FIRE & EXPLOSION HAZARDS

No unusual fire or explosion hazards noted.

#### 6 ACCIDENTAL RELEASE MEASURES

##### PERSONAL PRECAUTIONS

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Wear protective clothing if dust in the atmosphere is a problem.

#### **ENVIRONMENTAL PRECAUTIONS**

Avoid washing into water courses. Avoid contaminating public drains or water supply.

#### **SPILL CLEAN UP METHODS**

Avoid dust formation. Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into closed container.

### **7 HANDLING AND STORAGE**

#### **USAGE PRECAUTIONS**

Avoid handling which leads to dust formation.

#### **STORAGE PRECAUTIONS**

No special storage precautions noted. Store in tightly closed original container in a dry, cool and well-ventilated place.

#### **STORAGE CLASS**

Unspecified storage.

### **8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
Black Iron Oxide	NUI	-	-	-	-

#### **INGREDIENT COMMENTS**

NUI = Nuisance Dust.

The UK HSE guidance note EH40, recommends adequate control of exposure to dusts and where there is no indication of the need for a lower value, personal exposure should be kept below:-

8h TWA 10 mg/m3 total inhalable dust.

8h TWA 4 mg/m3 respirable dust

#### **PROCESS CONDITIONS**

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station.

#### **ENGINEERING MEASURES**

Provide adequate general and local exhaust ventilation.

#### **RESPIRATORY EQUIPMENT**

No specific recommendation made, but protection against nuisance dust must be used when the general level exceeds 10 mg/m3.

#### **HAND PROTECTION**

Use suitable protective gloves if risk of skin contact.

#### **EYE PROTECTION**

Wear dust resistant safety goggles where there is danger of eye contact.

#### **OTHER PROTECTION**

Wear appropriate clothing to prevent repeated or prolonged skin contact.

#### **HYGIENE MEASURES**

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Change work clothing daily before leaving work place.

### **9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE</b>	Powder, dust
<b>COLOUR</b>	Black
<b>ODOUR</b>	Odourless
<b>PHYSICAL DATA COMMENTS</b>	pH : 3 - 7 typically
<b>SOLUBILITY</b>	Insoluble in water
<b>SPECIFIC GRAVITY</b>	4.5

### **10 STABILITY AND REACTIVITY**

#### **STABILITY**

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No particular stability concerns.

#### **MATERIALS TO AVOID**

No incompatible groups noted.

#### **HAZARDOUS DECOMPOSITION PRODUCTS**

No hazardous decomposition products.

### **11 TOXICOLOGICAL INFORMATION**

#### **TOXICOLOGICAL INFORMATION**

From literature surveys undertaken:-

Iron oxides:-

LD50: oral, rat = > 5000 mg/kg

Rabbit: eyes = non irritant

Rabbit: skin (24h) = non irritant

#### **GENERAL INFORMATION**

No specific health warnings noted.

#### **INHALATION**

Repeated and prolonged inhalation of iron oxide fume has been reported to produce changes in lung X-Rays of exposed individuals. This condition, siderosis, is considered to be a benign pneumoconiosis that exhibits no adverse health effects. To the best of our knowledge, this condition has not been observed after prolonged exposure to iron oxide pigments.

#### **INGESTION**

No specific health warnings noted.

#### **SKIN CONTACT**

Powder may irritate skin.

#### **EYE CONTACT**

May cause irritation.

#### **OTHER HEALTH EFFECTS**

This substance has no evidence of carcinogenic properties.

#### **MEDICAL SYMPTOMS**

Prolonged or repeated exposure may cause: Skin irritation. Irritation of eyes and mucous membranes

### **12 ECOLOGICAL INFORMATION**

#### **ECOTOXICITY**

From literature surveys undertaken:-

Aquatic toxicity (fish): = *Leuciscus idus* (Golden Orfe) LCo: >1000 mg/l

Bacterial toxicity: = harmless against *Pseudomonas putida* at >1000 mg/l

Water hazard classification = According to present state of knowledge, these pigments are generally not hazardous to water. Separation: these pigments are separated in most filtration and/or sedimentation processes. Biological/Chemical Oxygen Demand: Not applicable.

### **13 DISPOSAL CONSIDERATIONS**

#### **DISPOSAL METHODS**

Recover and reclaim or recycle, if practical. Contact specialist disposal companies. Dispose of waste and residues in accordance with local authority requirements.

### **14 TRANSPORT INFORMATION**

GENERAL	Not classified as dangerous for transport purposes. No transport warning sign required.
ROAD TRANSPORT NOTES	Not classified as dangerous for road transport.
RAIL TRANSPORT NOTES	Not classified as dangerous for rail transport.
SEA TRANSPORT NOTES	Not classified as dangerous for sea transport.
AIR TRANSPORT NOTES	Not classified as dangerous for air transport.

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**15 REGULATORY INFORMATION****RISK PHRASES**

NC Not classified.

**16 OTHER INFORMATION****GENERAL INFORMATION**

See technical literature for details of suitable applications of this product.

**REVISION COMMENTS****RISK PHRASES IN FULL**

NC Not classified.

**DISCLAIMER**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

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