



YELLOW IRON OXIDE

CHEMICAL NAME / FORMULA :

Hydrated Ferric Oxide /
 $\text{Fe}_2\text{O}_3 \cdot \text{H}_2\text{O}$

FORMATION :

Fine particles of size less
than 1 micron

PROPERTIES:

Appearance : Yellow powder, Odorless'

Solubility : Insoluble in water

Flash Point : Not flammable

Specific Gravity : ($\text{H}_2\text{O} = 1$) : 4 – 4.15

Stability : Stable

**INSTALLED
CAPACITY**

450 TPA

SPECIFICATIONS

Average particle size: Less than 0.5

Bulk Density: 0.4-0.5 gm/cc

Volatile Matter %: 0.5 Max

Residue on Sieve (325 Mesh): 0.25 Max

Matter soluble in water: 0.3 Max

Loss on Ignition %: 12 Max

Oil absorption (PHR): 30-32

PH (10% extract): 4-5.5

INPUT

Leach liquor consist of ferrous
chloride generated in ilmenite
plant

OUTPUT

Yellow iron oxide

**PACKAGING AND HANDLING**

Material is packed in 25 kg capacity HDPE Bags. Handling is to be done carefully to avoid generation of dust.

**TRANSPORTATION CLASSIFICATION**

CAS: Number: 51274 - 00 - 1

**MATERIAL SAFETY DATA**

Given Overleaf

**END USERS**

In Paint and Pharma industries, colouring of cement (coloured concrete).



MATERIAL SAFETY DATA

NAME OF THE PRODUCT	Yellow Iron Oxide (Iron Oxide - Yellow)
COMPOSITION / COMPONENTS	Iron Oxide Pigments
HAZARDS IDENTIFICATION	Non Hazardous
FIRST AID MEASURES	EYE - Flush eyes with generous amounts of water for at least 15 minutes. SKIN - Wash skin with mild soap and water. INGESTION-Give large quantities of water to induce vomiting. Get medical aid.
MEASURES FOR FIRE FIGHTING	Not Flammable
MEASURES IN CASE OF UNINTENTIONAL RELEASE	Vacuum or use wet clean up techniques and place material in closed container. Avoid generating dusts. Wash thoroughly after handling and before eating and drinking.
HANDLING AND STORAGE	To be handled carefully avoiding spillages and creation of dust. Keep away from food products. Keep container closed when not in use. Use with adequate ventilation.
EXPOSURE LIMIT AND STAFF PROTECTION EQUIPMENT	Use goggles or glasses and rubber or leather gloves to avoid dusting.
PHYSICAL & CHEMICAL PROPERTIES	Yellow powder without odour. Insoluble in water.
STABILITY AND REACTIVITY	Material is stable and incompatible with hydrazine calcium hypochlorite, performic acid and bromine pentafluoride.
INFORMATION OF TOXICOLOGY	Non-Toxic
INFORMATION ABOUT WASTE DISPOSAL	Not classified as hazardous waste. Hence no specific requirements for disposal. However, it must be in accordance with local regulations.
INFORMATION ABOUT TRANSPORT	No specific requirements. Transportable as general commodity in bags / containers.
STATUTORY REGULATORY INFORMATION	Shipping Name: Yellow Iron Oxide or Synthetic Yellow Iron Oxide.
OTHER INFORMATION	HS Classification No. 282110 CAS No. 51274 – 00 - 1