



Pigment Yellow 180 (Benzimidazolone Yellow HR)

CI: CI PY180 | C.I. No. 21290 | CAS: 77804-81-0 | Form: Powder | Purity: >= 99%

SECTION 1 -- PRODUCT IDENTIFICATION

Product Name	Pigment Yellow 180 (Benzimidazolone Yellow HR)
Product Code	PY180
Colour Index	CI PY180 C.I. No. 21290
CAS Number	77804-81-0
Molecular Weight	461.43 g/mol
Chemical Class	Benzimidazolone
Form	Powder
Purity	>= 99%
Supplier	Kanani Dyes Chem LLP, Gujarat, India
Emergency Tel.	+91 88499 95971
Email	sales@kananipigment.com

SECTION 2 -- HAZARD IDENTIFICATION (GHS)

GHS Classification	Not classified as hazardous (solid inert pigment)
Signal Word	None required
Hazard Statements	No significant hazard under normal conditions of use
Precautionary	P260: Avoid breathing dust P273: Avoid env. release
HMIS Rating	Health: 1 Flammability: 1 Reactivity: 0

SECTION 3 -- COMPOSITION / INGREDIENTS

Chemical Name	Benzimidazolone
CAS Number	77804-81-0
Colour Index No.	CI PY180 C.I. No. 21290
Mol. Weight	461.43 g/mol
Concentration	>= 99%
Hazardous Impur.	None known -- inert solid pigment

SECTION 4 -- FIRST AID MEASURES

Eye Contact	Rinse with plenty of clean water for min. 15 min. Seek medical attention if irritation persi
Skin Contact	Wash with soap and water. Remove contaminated clothing. Seek attention if irritation develop
Inhalation	Move to fresh air immediately. Give oxygen if breathing difficult. Seek medical attention.
Ingestion	Do NOT induce vomiting. Rinse mouth. Give water to drink. Seek immediate medical attention.
Note to Doctor	Symptomatic supportive care. No specific antidote.

SECTION 5 -- FIRE FIGHTING MEASURES

Flash Point	Not applicable -- non-flammable solid powder
Auto-ignition Temp.	> 300 degC
Extinguishing Media	CO2, dry chemical powder, water spray, foam
Special Hazards	CO, CO2, NOx may evolve on thermal decomposition above 300 degC
Protective Equip.	Self-contained breathing apparatus (SCBA) if required

SECTION 6 -- ACCIDENTAL RELEASE

Personal Precautions	Dust mask (P2/N95), gloves, safety glasses
Environmental	Prevent entry into drains, waterways and soil
Spill Clean-up	Collect mechanically. Do not use compressed air. Seal in containers.
Disposal	Dispose per local/national regulations. Do not dispose to drain.

SECTION 7 -- HANDLING & STORAGE

Safe Handling	Avoid dust generation. Use LEV where possible. Wear PPE.
Storage Cond.	Store at 5-35degC in sealed containers away from moisture.
Container	Keep tightly closed when not in use
Shelf Life	3 years from date of manufacture

SECTION 8 -- EXPOSURE CONTROLS / PERSONAL PROTECTION

OEL (8h TWA)	1 mg/m3 inhalable dust -- verify applicable local regulations
Respiratory PPE	P2/N95 dust mask where dust cannot be avoided
Eye Protection	Safety glasses or chemical splash goggles
Hand Protection	Nitrile or latex gloves (EN ISO 374)
Body Protection	Dustproof protective clothing and safety footwear
Engineering Ctrl.	Local exhaust ventilation (LEV) preferred over RPE

SECTION 9 -- PHYSICAL & CHEMICAL PROPERTIES

Physical State	Solid - Powder	Solub. (Water)	Practically insoluble
Shade	Reddish Yellow	pH Value	6.5-7.5
Odour	Odourless	Oil Absorption	40-50 g/100g
Density	1.45-1.55 g/cm ³	Decomposition	> 300 degC
Moisture	1% Max	Flammability	Not flammable

SECTION 10 -- STABILITY & REACTIVITY

Stability	Stable under normal conditions of storage and handling
Heat Resistance	200degC
Conditions to Avoid	Excessive heat (>300degC), moisture, open flame
Incompatible	Strong oxidising agents, strong acids and strong alkalis
Hazardous Products	CO, CO2, NOx on thermal decomposition above 300 degC

SECTION 11 -- TOXICOLOGICAL INFORMATION

Acute Toxicity	Not classified as acutely toxic (based on available data)
Skin Irritation	Not classified as a skin irritant (EC 1272/2008)
Eye Irritation	Not classified as an eye irritant
Carcinogenicity	No components listed as carcinogenic (IARC / NTP / OSHA)
Reproductive Tox.	No data indicating reproductive toxicity

SECTION 12 -- ECOLOGICAL INFORMATION

Ecotoxicity	Low risk -- practically insoluble, not bioaccumulative
Persistence	Not readily biodegradable as organic pigment
Soil Mobility	Low mobility -- particle size and water insolubility

SECTION 13 -- DISPOSAL CONSIDERATIONS

Waste Category	Non-hazardous solid waste (verify with local authority)
Disposal Method	According to local/state/national regulations. Not to drain.

SECTION 14 -- TRANSPORT INFORMATION

UN Number	Not regulated -- not classified as dangerous goods
Hazard Class	Not applicable
Packing Group	Not applicable
Marine Pollutant	Not a marine pollutant

SECTION 15 -- REGULATORY INFORMATION

RoHS	Compliant -- no restricted hazardous substances
REACH (EU)	Registered / Compliant -- EU REACH Regulation 1907/2006
BIS / IS	Manufactured as per applicable Indian Standards
Export (India)	Freely exportable -- DGFT guidelines

SECTION 16 -- OTHER INFORMATION

Prepared By	Kanani Dyes Chem LLP -- Technical & Quality Dept.
Data Sources	Company product data, published literature, GHS guidelines
Disclaimer	Information is believed accurate. Replace with verified company data.

For Samples, Pricing & Technical Queries:

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