SAFETY DATA SHEET

INDIAN YELLOW HUE

PIGMENT YELLOW 83 (PY83) | DIARYLIDE (DICHLOROBENZIDINE) YELLOW | OPAQUE TO SEMI-OPAQUE

PREPARED IN ACCORDANCE WITH OSHA HAZARD COMMUNICATION STANDARD

29 CFR 1910.1200 (HazCom 2012) / GHS REV. 9

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	C.A.S. AlkydPro Indian Yellow Hue — Dry Powder Artist Grade
Pack Size	4.5 Fl Oz (Pack of 1)
Chemical Name	Diarylide yellow (dichlorobenzidine-based azo pigment)
Chemical Formula	$C_{36}H_{32}Cl_4N_6O_8$
CAS Number	5567-15-7
Index Number	PY83
CI Number	CI 21108
Manufacturer/Supplier	CAS Paints
Address	CAS Paint PO Box 342 Shelbyville IL 62565
Email	info@caspaints.com
Pigment Index	PY83
Pigment Type	Modern Synthetic Organic Pigment — Diarylide (Dichlorobenzidine) Azo
Opacity	Opaque to Semi-Opaque
Use	Artist pigment for use with alkyds, oils, acrylics, coatings and inks
Restrictions	Not for ingestion. For professional and artist use only.
Naming Note	Marketed under the traditional “Indian Yellow” hue name. This is a modern synthetic substitute; it is chemically unrelated to historic Indian Yellow (a natural pigment, now obsolete, once derived from concentrated cattle urine).

2. HAZARDS IDENTIFICATION

Classification: Not classified as hazardous under 29 CFR 1910.1200 criteria

Hazard Statements:

No hazard labelling required

Regulatory Basis: This SDS has been prepared in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200 (HazCom 2012), which incorporates the UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Rev. 9.

3. COMPOSITION / INFORMATION ON CHEMICALS	
Chemical Name	Diarylide yellow — tetrazo pigment derived from 3,3'-dichlorobenzidine and 4-chloro-2,5-dimethoxyacetoacetanilide
Chemical Formula	$C_{36}H_{32}Cl_4N_6O_8$
Molecular Weight	818.49 g/mol
Concentration	~99% diarylide yellow
CAS Number	5567-15-7
Other Chemicals	Trace processing impurities; surface treatments or dispersing aids may be present in pigment grade
Note on Structural Class	PY83 is a diarylide (“benzidine yellow” family) azo pigment, synthesized from 3,3'-dichlorobenzidine. It offers improved heat, solvent and migration resistance compared to monoazo yellows such as PY1 or PY3.

4. FIRST AID MEASURES	
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Seek immediate medical attention.
Skin Contact	Wash thoroughly with soap and water. Remove contaminated clothing and shoes.
Eye Contact	Flush with plenty of water for at least 15 minutes. Seek immediate medical attention.
Ingestion	Do not induce vomiting. Give plenty of water to drink. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES	
Suitable Extinguishing Media	Water spray, dry chemical, carbon dioxide, or foam
Special Hazards	Combustion at very high temperatures may release hydrogen chloride (HCl), chlorine compounds and nitrogen oxides
Fire Fighting Procedures	Use self-contained breathing apparatus (SCBA) in enclosed fire situations. Keep container cool by water spray.

6. ACCIDENTAL RELEASE MEASURES	
Personal Precautions	Wear suitable respiratory protection and protective clothing; avoid generating airborne dust
Environmental Precautions	Prevent release to environment; avoid dispersal into waterways or drains
Methods and Materials for Containment and Clean-up	Collect carefully in a sealed container. Use damp wiping methods where possible to avoid airborne particles.

7. HANDLING AND STORAGE

Handling Precautions	Use adequate ventilation. Avoid inhalation of dust. Wear appropriate protective equipment. Wash hands thoroughly after handling.
Storage Conditions	Store in a cool, dry place. Keep container tightly closed. Store away from incompatible materials.
Storage Requirements	Store in original container. Keep away from heat and ignition sources. Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Controls:

Use appropriate engineering controls to minimize dust generation. Provide adequate ventilation. No specific OEL established for PY83; apply good industrial hygiene practices.

Personal Protection Equipment:

- Respiratory Protection: Use dust mask or respirator when handling large quantities or in poorly ventilated areas
- Eye Protection: Safety glasses or goggles
- Skin Protection: Gloves and protective clothing for prolonged handling
- Hygiene: Wash hands and exposed skin thoroughly after handling

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Reddish-shade yellow fine powder
Odor	None
pH	4.4–6.9 (in aqueous suspension)
Melting Point	Not applicable (decomposes before melting)
Boiling Point	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable
Vapor Pressure	Negligible
Density	~1.3–1.4 g/cm³
Solubility in Water	Practically insoluble (~1% water-soluble matter)
Solubility in Solvents	Insoluble in most common solvents; compatible with alkyd and oil media
Partition Coefficient	Not applicable
Autoignition Temperature	Not applicable
Decomposition Temperature	~220°C and above

Specific Heat	Not applicable
Lightfastness	Good (ASTM II–III); moderate compared to modern high-performance organics — typical of the diarylide class
Tinting Strength	High

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions
Possibility of Hazardous Reactions	None known under normal handling conditions
Conditions to Avoid	High temperatures above ~220°C, open flames, sparks
Incompatible Materials	Strong oxidizing agents, strong acids and strong bases at elevated temperatures
Hazardous Decomposition Products	Hydrogen chloride (HCl), chlorine compounds, nitrogen oxides, carbon dioxide at very high temperatures

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	Oral LD50: Not established; expected to be of low acute toxicity based on structural class
Skin Irritation	Not established; not expected to be a significant skin irritant
Eye Irritation	Mild mechanical irritation from dust particles possible
Sensitization	Not established as a skin or respiratory sensitizer
Carcinogenicity	Not classified as carcinogenic (IARC, NTP, OSHA) in this pigment form. Note: PY83 is manufactured from 3,3'-dichlorobenzidine, a listed reactant; residual free dichlorobenzidine in finished pigment is expected to be negligible, consistent with typical diarylide pigment manufacturing controls.
Mutagenicity	Not established for the finished pigment
Reproductive Toxicity	Not established
Specific Target Organ Toxicity	May cause respiratory irritation from fine dust inhalation under repeated or prolonged exposure
Other Effects	Not established under normal artist/pigment use conditions

12. ECOLOGICAL INFORMATION

Ecotoxicity	Not established; low ecotoxicity expected based on practical insolubility
Persistence and Degradability	Not applicable; synthetic organic pigment — not readily biodegradable
Bioaccumulative Potential	Not expected to bioaccumulate

Mobility in Soil	Low mobility; practically insoluble fine particles
Environmental Fate	Not expected to cause significant environmental harm under normal use conditions

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	Dispose of in accordance with local, state, and federal regulations. Do not discharge to sewer systems or waterways.
Regulatory Requirements	Follow applicable regulations for disposal of industrial/artist pigment waste.

14. TRANSPORT INFORMATION

UN Number	Not applicable
UN Proper Shipping Name	Not applicable
Transport Category	Not regulated as hazardous for transport
Hazard Class	Not applicable
Packing Group	Not applicable
Transport Requirements	No special transport requirements

15. REGULATORY INFORMATION

Regulatory Status	Classified and labeled in accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012) / GHS Rev. 9; generally recognized as safe for use in artist and coating applications
TSCA Status	Listed on TSCA Chemical Substance Inventory (CAS 5567-15-7)
California Prop 65	Not listed as a Proposition 65 chemical in this pigment form
REACH	Complies with applicable REACH regulations
Special Regulations	None known for normal artist/pigment use

16. OTHER INFORMATION

Date of Preparation	April 2026
Revision Date	April 2026
Key Handling Note	PY83 (Indian Yellow Hue) is a diarylide azo pigment offering good heat and solvent resistance for a classical yellow hue. It is a modern substitute for historic natural Indian Yellow, which is obsolete.
Additional Information	This SDS is prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and GHS guidelines. This product conforms to ASTM D-4236. For professional and artist use. Keep out of reach of children.