



Developing Relationship

ICLAY 21[®]

ORGANOCLAY RHEOLOGICAL ADDITIVE

SINGLE INVENTORY + MULTIPURPOSE + ECONOMICAL + COST EFFECTIVE

ICLAY 21[®] IS BASED ON QUARTERNARY AMMONIUM MODIFIED HECTORITE BENTONITE CLAY CHEMISTRY.

SPECIFICATION

• Appearance	White Powder
• Granularity (200 mesh)	≥ 95%
• Moisture H ₂ O (105°C)	0.5~3.5%
• Pas Viscosity Mpa.S	≥ 1.5
• Loss on Ignition (LOI)	28~35%
• Bulk Density	1.60-1.70g/cm ³

ADVANTAGES

- Easy to Disperse & Pre-Gel
- Easy to Direct use in systems
- Easy to control Viscosity
- Easy to control Thixotropy
- Easy to Sag & Settle control
- Easy to maintain Flow & Leveling

APPLICATIONS

- Automotive Finishes
- High DFT Epoxy Coatings
- Marine Coatings
- Industrial Coatings
- Heavy-Duty Coatings
- Acrylic Coatings
- Printing Inks
- Nail Polish
- Anticorrosive Coatings
- Road Marking Paints
- Anti Fouling Paints
- Sealants
- Whiteners
- Enamels

RECOMMENDED DOSES

- ICLAY 21[®] doses range between 0.2 % - 2.0 % based on total formulation weight.

DOSES INCORPORATION

- ICLAY 21[®] Pre-Gel can be Incorporated initial stage of paint manufacturing process.
- ICLAY 21[®] Direct Powder can be Incorporated during Grinding process.

SHELF LIFE

- ICLAY 21[®] Shelf Life is 24 months from the date of Manufacturing.

PACKING

- ICLAY 21[®] available in 25kgs/Paper bag.

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MATERIAL SAFETY DATA SHEET

1. PRODUCT NAME	ICLAY 21 [®] / ICLAY 21 [®] DMS / ICLAY 21 [®] G
PRODUCT Classification	ORGANOCLAY RHEOLOGICAL ADDITIVE
Chemical Name	QUARTERNERY AMMONIUM MODIFIED HECTORITE BENTONITE CLAY

2. PRODUCT COMPOSITION

Alkyl Quaternary Ammonium Bentonite	CAS No.: 68953-58-2
Quartz(Crystalline silica) ≤0.5%	CAS No.: 14808-60-7

3. HAZARD IDENTIFICATION

<u>Warning:</u> May cause slight eye irritation. Long term exposure to airborne dust concentrations above the recommended exposure guidelines may cause lung damage.	<u>Protective Measures:</u> Avoid contact with the eyes. Avoid breathing dust. Use in well ventilated areas,
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4. FIRST AID MEASURES

Eye Contact: Rinse immediately with water for at least 15 minutes.
Skin Contact: Wash with soap and water.
Ingestion: Provide symptomatic treatment and seek medical attention.
Inhalation: Remove person to fresh air, if breathing is difficult, provide Oxygen and seek medical attention.
Other: None known.

5. FIRE FIGHTING MEASURES

Flash Point: N. A.	Method: N. A.	LEL:	UEL: N. A.
EXTINGUISHING MEDIA/FIRE FIGHTING PROCEDURES			
Water fog, foam, dry chemical, or carbon dioxide.			
UNUSUAL HAZARDS			
Precautions for flammable organic dusts should be provided. Avoid high dust concentrations, Assure all equipment is properly to prevent static discharges, and vented to provide for potential energy release.			

6. ACCIDENTAL RELEASE MEASURES

RELEASE RESPONSE
Minimize dusting. Caution: May cause a slippery condition when wet. Sweep/shovel material into a drum for re-use or disposal.
PERSONAL PROTECTIVE EQUIPMENT
Wear an air-purifying dust respirator and chemical gloves. Wear eye protection to prevent dust from entering the eyes.



7. HANDLING AND STORAGE

HANDLING
Precaution for flammable organic dusts should be provide. Avoid high dust concentrations. Assure all equipment is properly grounded to prevent static discharges, and vented to provide for potential energy release. Control high dust concentrations while handling through the use of Ventilation or other suitable controls.
STORAGE
None.

8. EXPOSURE CONTROL INFORMATION

OCCUPATION EXPOSURE LIMITS	
<u>ACGIH-TLV</u> 8hr. TWA fraction 10mg/m ³ classified	<u>OSHA-PEL</u> 8hr. TWA Dusts, not otherwise 3.0 10mg/m ³ , respirable dust fraction 5.0mg/m ³ , respirable
ENGUBEERING CONTROL MEASURES	
Use local exhaust ventilation if airborne concentrations are above recommended exposure limits.	
ENGINEERING PROTECTION EQUIPMENT	
Respiratory:	Use an air-purifying dust respirator if airborne concentration levels are above exposure limits.
Hand:	Use chemical resistant goggles.
Eye:	Use safety glasses/gloves.
Other:	None.
OTHER CONTROL MEASURES Use good hygiene practices. Wash hands and face before eating or drinking.	

9. PROPERTIES

Appearance: Light Cream Power	Odor: None	Ph: N. A
Boiling Range: N. A.	Melting Range: N .A	Specific Gravity:
Solubility: Insoluble in water.	Vapor Density: N.A	Vapor Pressure: N.A
% Volatile: N. A.	Freezing Point: N. A.	Density at 20°C:Not measured

10. REACTIVITY INFORMATION

Conditions to Avoid :	None known.
Material to Avoid :	None known.
Hazardous Decomposition:	In case of fire, possible emission of carbon monoxide, carbon dioxide, organic chlorides and ammonia.
Stability:	Stable.

11. HEALTH/TOXICITY INFORMATION

HEALTH HAZARDS
<p><u>Effects of Acute Exposure</u> Inhalation: May cause slight irritation. Skin Contact: Not expected to cause irritation. Skin Absorption: Not be absorbed through intact skin.. Eye Contact: May produce slight (mechanical) irritation. Ingestion: Not expected to produce adverse effects. <u>Effects of Chronic Over Exposure</u> As with any dust, long term exposure to concentrations above recommended exposure guidelines May overload the lung clearance mechanism and cause adverse lung effects and shortness of breath. Listed as a suspected carcinogen on: IARC: No NTP: No OSHA: No Medical Conditions Aggravated: Respiratory disorders.</p>
TOXICITY INFORMATION
<p>Based on this or a Oral LD₅₀(Rat): Similar product: Repeated Insult Patch Test(Humans): Not a primary irritant, fatiguing agent or sensitizer; Human Eye Test: Milk Mechanical Irritation; Primary Skin Irritation(Rabbit): Non-irritating; Primary Eye Irritation(Rabbit):Non-irritating; Acute inhalation Toxicity: No Toxic Manifestation; Ames Test: Not Mutagenic.</p>

12. ENVIRONMENTAL/DISPOSAL CONSIDERATIONS

ENVIRONMENTAL HAZARDS
<p>Acute LC₅₀(Corophium Volutator): No Acute Effect; EC₅₀(Skeletonema Costatum): LC₅₀(Acartia Tonsa): Biodegradability: Insignificant Degradability</p>
<p>Dispose of in accordance with local regulations, Use licensed waste Handler.</p>

13. DISPOSAL CONSIDERATIONS

<p>Dispose of in accordance with local regulations, Use licensed waste Handler.</p>

14. OTHER INFORMATION

<p>H.M.L.S.CODES Health: 0 Flammability: 0 Reactivity: 0</p>
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N.A: Not Applicable



APPLICATIONS	STANDARD	IMPEX GRADE
Automotive Finishes	Bentone SD1, Viscogel ED, Bentone 27	ICLAY 21 ®
High DFT Epoxy Coatings	Bentone 27, Viscogel B7,	ICLAY 21 ®
Marine Coatings	Bengel 988, BP 184, Viscogel ED	ICLAY 21 ®
Industrial Coatings	Bengel 958, BP 185, Bentone 38	ICLAY 21 ®
Heavy-Duty Coatings	Bentone 34, BP 184, Viscogel B4	ICLAY 21 ®
Acrylic Coatings	BP 186, Bentone 38, Viscogel B8	ICLAY 21 ®
Printing Inks	Bentone 34, Viscogel B4	ICLAY 21 ®
Nail Polish	Bentone 27	ICLAY 21 ®
Anticorrosive Coatings	Bentone SD1, Viscogel ED	ICLAY 21 ®
Road Marking Paints	Bengel 908, Viscogel B4	ICLAY 21 ®
Anti Fouling Paints	Bentone 34, Viscogel B4, BP 184	ICLAY 21 ®
Wood Coatings	Bengel 958, BP 185, Bentone 27	ICLAY 21 ®
Transparent Paints	Bentone SD2	ICLAY 21 ®

PLEASE NOTE, WE ARE SHARING THIS INFORMATION, BASED ON OUR VALUABLE CUSTOMER'S UPDATES. SO WE ARE KINDLY REQUEST TO OUR PROSPECTIVE CUSTOMERS TO EVALUATE OUR ICLAY 21 ® SAMPLE FIRST & SATISFY WITH THE DESIRE RESULTS.