

B80 Bleaching Clay is a natural bentonite clay (Fuller's Earth, CAS 8031-18-3) used as an adsorbent for color remediation, decolorizing, and impurity removal in oils, fats, and other organic liquids. It is pH-neutral, non-reactive, requires no activation, and is ready to use directly from packaging.

SECTION 1: PRODUCT IDENTIFICATION

Product Name	B80 Bleaching Clay
CAS Number	8031-18-3
Chemical Name	Fuller's Earth (Attapulgite-type clay); Natural Bentonite Clay
Composition	Natural aluminosilicate mineral (UVCB substance) — Fuller's Earth 100%
GHS Classification	STOT SE Category 3 — May cause respiratory irritation (H335)
Restriction	Spent material (used with unsaturated oils) — SPONTANEOUS COMBUSTION RISK. See Section 5.
Supplier	Cannagas Supply 97 Turnpike Rd, Westborough, MA 01581 877-710-1965 Sales@canna-gas.com

SECTION 2: PHYSICAL & CHEMICAL PROPERTIES

Physical State	Gray to tan powder, odorless	Solubility	Insoluble in water
pH	≈7.2 (neutral)	Moisture Content	Low — as supplied
Particle Size	1–140 μm	Surface Chemistry	High surface area; natural cation exchange capacity
Relative Density	2.2	Odor	Odorless (unused)
Bulk Density	~0.6–0.8 g/mL	Flash Point	Not applicable (solid, unused)
Flammability	Not flammable (unused)	VOC Content	None

SECTION 3: PERFORMANCE & APPLICATIONS

Primary Use	Color and pigment removal (bleaching) from edible oils, fats, waxes, and other organic liquids in filtration/bleaching operations.
Adsorption Targets	Chlorophylls, carotenoids, oxidation products, trace metals, phospholipids, and other color-causing compounds.
No Activation	Ready to use directly from packaging — no pre-drying or activation required.
pH Neutral	pH ≈7.2 — non-reactive with most oils and organic substrates. Does not alter product chemistry.
Dosage	Typical usage: 0.5–2.0% w/w of feed material. Optimize based on feed quality and target color specification.
Temperature	Most effective at elevated temperatures (70–100°C for oils). Consult process conditions for your specific application.
Filtration	Filter through 5–10 μm filter after contact time. Pressure filtration (leaf filter or plate-and-frame press) is typical for industrial scale.
Compatibility	Suitable for most edible and industrial oils and fats. Not recommended for use with turpentine, hydrofluoric acid, or other reactive solvents.

SECTION 4: SPENT CLAY HANDLING — CRITICAL

■ **SAFETY NOTE: SPONTANEOUS COMBUSTION HAZARD:** Spent bleaching clay used with unsaturated vegetable oils, fish oil, turpentine, or other unsaturated organic compounds is subject to spontaneous combustion. Improper handling of spent clay has caused fires and explosions. Follow all handling, storage, and disposal procedures below.

Landfill Disposal	To suppress spontaneous combustion: spread spent clay out to dissipate heat and/or spray with water. Cover with non-combustible materials.
In-Plant Handling	When purging filter cake with air before press cleaning: avoid excessive air blowing — use nitrogen purge or strictly limit air. Do NOT follow steam purging with air blowing.
Saturated Oils	Spent clay used with fully saturated oils (e.g. palm oil) does NOT present the same spontaneous combustion risk.

SECTION 5: STORAGE & HANDLING

Storage (Unused)	Store in dry area in sealed containers. Keep away from turpentine, vegetable oils, fish oils, hydrofluoric acid, and unsaturated organic compounds.
Shelf Life	Indefinite for unused material in sealed, dry storage.
Static Charge	Dry powder builds static during transfer and mixing — use grounding precautions. Minimize dust generation.

SECTION 6: SAFETY SUMMARY

GHS Signal Word	WARNING
Key Hazards	H335: May cause respiratory irritation. Spent clay: spontaneous combustion risk.
Prop. 65	Contains trace quartz — known to cause cancer. See www.P65Warnings.ca.gov .
Key PPE	Dust mask and eye protection when handling. Avoid breathing dust.
SDS Reference	Full SDS available. CHEMTREC: 1-800-424-9300.

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