

BIO-DRY PRODUCTS LLC

SAFETY DATA SHEET

Bio-Dry Asphalt Special Blend Cleaner

Product type	Powdered asphalt cleaner	Version	1.1
Issue date	September 10, 2026	Revision date	September 10, 2026

SECTION 1 IDENTIFICATION

Product identifier	Bio-Dry Asphalt Special Blend Cleaner
Other means of identification	Bio-Dry Asphalt Cleaner; Asphalt Special Blend
Recommended use	Waterless powdered treatment for oil, hydraulic-fluid, diesel, and other hydrocarbon stains or spills on asphalt and compatible paved surfaces.
Restrictions on use	Use only as directed. Do not ingest. Avoid uses that create airborne dust or involve contact with food or feed.
Manufacturer and responsible party	Bio-Dry Products, LLC P.O. Box 10318 Wilmington, NC 28404 USA
Telephone	(910) 297-5896
Email and website	business@bio-dry.com bio-dry.com
Emergency telephone	(910) 297-5896 during business hours, Eastern Time. For a life-threatening emergency call 911. For poisoning advice in the United States call Poison Control at 1-800-222-1222.

SECTION 2 HAZARD IDENTIFICATION

OSHA HCS classification	OSHA-defined hazard: Combustible dust
Signal word	WARNING
Hazard statement	May form combustible dust concentrations in air.
Pictogram	None required for the OSHA-defined combustible-dust hazard.

Recommended precautionary measures

- Avoid generating or breathing dust. Use adequate general and local exhaust ventilation.
- Keep away from heat, sparks, open flame, hot surfaces, and other ignition sources. Prevent dust accumulation and static discharge.
- Wear safety glasses with side shields and suitable gloves. Wash thoroughly after handling.

Other hazards

Fine dust may cause temporary mechanical irritation of the eyes, skin, nose, throat, and lungs. Powdered activated carbon may self-heat during oxidation and can smolder without visible flame. Wet activated carbon can reduce oxygen levels in enclosed spaces. Spent product may carry the hazards of absorbed oil, fuel, or other contaminants.

SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS

Substance or mixture: Mixture

Ingredient or generic identity	CAS number	Concentration
Proprietary mineral carrier and cleaning matrix	Trade secret mixture	65-85%
Activated carbon, powdered	7440-44-0	10-30%
Anionic surfactant	68081-81-2	0.5-1.5%
Proprietary biological culture	Trade secret	0.1-1%

Trade secret claim: Specific identities and/or exact concentrations are withheld under 29 CFR 1910.1200(i). Prescribed ranges contain the actual concentrations. Disclosure is available as required by the standard.

SECTION 4 FIRST AID MEASURES

General advice	Move the exposed person away from further exposure. Show this SDS to medical personnel. Get medical advice if symptoms are severe or persist.
Inhalation	Move to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if coughing, shortness of breath, or irritation persists.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water. Obtain medical advice if irritation or rash develops. Wash clothing before reuse.
Eye contact	Rinse cautiously with clean water for at least 15 minutes, lifting upper and lower eyelids. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. If conscious, give small amounts of water. Call Poison Control or a physician if symptoms occur or a large amount is swallowed.

Most important symptoms and effects

Dust exposure may cause eye redness, watering, dryness, coughing, or temporary respiratory discomfort. Prolonged or repeated skin contact may cause irritation; susceptible individuals may experience skin sensitivity. Ingestion may cause gastrointestinal discomfort.

Immediate medical attention and special treatment

Treat symptomatically. No specific antidote is known.

SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing media	Water fog or spray, foam, carbon dioxide, or dry chemical appropriate for the surrounding fire.
Unsuitable extinguishing media	Do not use a high-pressure or solid water stream that could scatter material or create an airborne dust cloud.
Specific hazards	Airborne dust may ignite or explode in sufficient concentration in the presence of an ignition source. Activated carbon can self-heat and may burn slowly or smolder without visible flame. Combustion may produce carbon monoxide, carbon dioxide, and irritating smoke. Spent product may release decomposition products from absorbed contaminants.
Protective equipment	Firefighters should wear full protective equipment and positive-pressure self-contained breathing apparatus. Monitor for hidden smoldering and carbon monoxide. Cool exposed containers with water fog and avoid dispersing dust.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions and emergency procedures

- Eliminate ignition sources and ventilate the area. Keep unnecessary personnel away.
- Avoid breathing dust and contact with eyes or skin. Wear the protective equipment described in Section 8.
- Do not use compressed air or dry sweeping methods that create dust clouds.

Containment and cleanup

Carefully collect material with a HEPA-filtered vacuum or non-sparking tools. If compatible with the intended disposal method, lightly dampen material to reduce airborne dust; do not create runoff. Place recovered material in a closed, labeled container. Clean residual dust without dispersing it. Prevent material from entering drains, surface water, or soil in significant quantities.

Waste considerations

Unused product may generally be managed as non-hazardous solid waste. Spent product must be evaluated for the oil, fuel, chemicals, or other substances it has absorbed before reuse, transport, or disposal.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

- Avoid creating or breathing airborne dust. Use closed transfer methods or local exhaust where practical.
- Keep away from ignition sources. Ground and bond conductive containers and transfer equipment. Use non-sparking tools where a dust cloud could form.
- Do not smoke, eat, or drink while handling the product. Wash hands and exposed skin after use.
- Do not mix with strong oxidizers, acids, alkalis, bleach, pool chemicals, or unknown chemicals.
- Keep the product container closed when not in use. Remove dust deposits from surfaces using methods that do not disperse dust.

Conditions for safe storage

Store in the original, tightly closed and properly labeled container in a cool, dry, well-ventilated location. Protect from moisture, heat, sparks, flames, hot surfaces, static discharge, and strong oxidizing agents. Maintain separation between stored packages and heat sources. Do not enter a confined space that contains or previously contained activated carbon until a qualified person has evaluated oxygen, carbon monoxide, and other hazards.

Specific end use

Apply to compatible asphalt surfaces in accordance with Bio-Dry product directions. Control the source and remove free liquid before treatment when practical.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters

Material	Exposure limit	Basis
Particulates not otherwise regulated	15 mg/m ³ total dust; 5 mg/m ³ respirable fraction, 8-hour TWA	OSHA PEL
Activated carbon	No OSHA substance-specific PEL established; apply particulate limits and control respirable dust	OSHA HCS review
Respirable crystalline silica, if present as an impurity	0.05 mg/m ³ (50 micrograms/m ³), 8-hour TWA	OSHA PEL, 29 CFR 1910.1053

Engineering controls

Provide general ventilation and local exhaust at points where dust may be generated. Maintain airborne particulate concentrations below applicable limits. Dust-collection and electrical equipment should be suitable for the combustible-dust conditions identified by the facility hazard assessment. Provide access to an eyewash station where significant dust exposure is possible.

Personal protective equipment

Eye and face	Safety glasses with side shields. Use sealed goggles when visible dust or overhead application can occur.
Hands	Work gloves suitable for dry powders. Replace damaged or contaminated gloves.
Skin and body	Long sleeves and normal protective work clothing where repeated contact is likely.
Respiratory	If ventilation cannot keep airborne dust below applicable limits, use a NIOSH-approved particulate respirator selected through an exposure assessment and used under a compliant respiratory-protection program, including 29 CFR 1910.134.
Hygiene	Wash hands after handling and before eating, drinking, smoking, or using the restroom. Launder contaminated clothing before reuse.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid powder
Color	Dark gray to black
Odor	Mild characteristic odor
Odor threshold	Not determined
pH	Not determined for the finished mixture
Melting point and freezing point	Not applicable to the mixture; not determined
Boiling point and boiling range	Not applicable to a solid mixture
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability	Not determined for the finished mixture; combustible-dust hazard applies
Lower and upper explosion limits	Not determined
Vapor pressure and vapor density	Not applicable
Relative density and bulk density	Not determined
Water solubility	Partially dispersible; mineral and carbon solids are largely insoluble
Partition coefficient	Not applicable or not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not applicable to a solid
Particle characteristics	Powder blend containing fine 325-mesh constituents; finished-product particle-size distribution not determined

SECTION 10 STABILITY AND REACTIVITY

Reactivity	Activated carbon may react exothermically with strong oxidizing agents. Avoid incompatible chemicals.
Chemical stability	Stable under recommended dry storage and normal ambient handling conditions.
Hazardous reactions	Dust-air mixtures may ignite or explode. Activated carbon may self-heat during oxidation. Hazardous polymerization is not expected.
Conditions to avoid	Heat, sparks, flames, hot surfaces, static discharge, airborne dust clouds, accumulated dust, moisture in confined spaces, and contamination with incompatible materials.
Incompatible materials	Strong oxidizing agents, strong acids, strong alkalis, bleach, and pool chlorinating chemicals.
Hazardous decomposition products	Carbon monoxide, carbon dioxide, and irritating smoke. Spent material may produce additional products associated with absorbed contaminants.

SECTION 11 TOXICOLOGICAL INFORMATION

Likely routes of exposure	Inhalation of dust, eye contact, skin contact, and incidental ingestion.
Acute toxicity	The finished mixture has not been tested. Based on ingredient concentrations and available supplier data, it is not expected to meet OSHA acute-toxicity classification criteria.
Skin corrosion or irritation	Not classified. Dust and prolonged contact may cause temporary mechanical irritation.
Serious eye damage or irritation	Not classified for the mixture. Direct dust contact may cause temporary mechanical irritation, redness, and tearing.
Respiratory or skin sensitization	Not classified. The biological culture supplier notes that repeated or prolonged skin contact may cause allergic reaction in susceptible persons.
Germ cell mutagenicity	Not classified based on available ingredient information.
Carcinogenicity	The mixture is not classified as carcinogenic based on available ingredient information. Natural mineral and activated-carbon raw materials may contain trace crystalline silica; avoid prolonged inhalation of respirable dust.
Reproductive toxicity	Not classified based on available ingredient information.
STOT single exposure	Not classified. Airborne dust may cause temporary respiratory irritation.
STOT repeated exposure	Not classified based on available ingredient information. Repeated high dust exposure may adversely affect the respiratory system.
Aspiration hazard	Not applicable to a solid powder.
Symptoms	Eye or skin discomfort, redness, tearing, dryness, coughing, sneezing, throat irritation, or gastrointestinal discomfort after ingestion.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity	No finished-mixture data are available. The product is not expected to be acutely toxic to aquatic organisms at normal use concentrations; avoid uncontrolled release.
Persistence and degradability	Mineral and activated-carbon components are inorganic or persistent solids. The surfactant and biological carrier may degrade; no mixture data are available.
Bioaccumulative potential	Not expected to be significant for the largely insoluble mineral and carbon components; no mixture data are available.
Mobility in soil	Insoluble solids are expected to remain primarily with soil or sediment. Fine particles may be transported by runoff.
Other adverse effects	No other significant effects are known. Do not discharge large quantities to drains or surface waters.

SECTION 13 DISPOSAL CONSIDERATIONS

Avoid or minimize waste generation. Unused product is not expected to be a hazardous waste under U.S. federal RCRA criteria based on the supplied formulation; however, the waste generator is responsible for making the final determination. Do not dispose to storm drains, surface waters, or sanitary sewers unless authorized.

Spent product may be hazardous because of the oil, fuel, solvent, metal, chemical, or other material it has absorbed. Characterize spent material and dispose through an authorized facility in accordance with federal, state, and local requirements. Empty containers may retain dust or contaminated residue; close them and manage accordingly.

SECTION 14 TRANSPORT INFORMATION

Transport element	DOT	IMDG	IATA
UN number	Not regulated	Not regulated	Not regulated
Proper shipping name	Not applicable	Not applicable	Not applicable
Hazard class	Not applicable	Not applicable	Not applicable
Packing group	Not applicable	Not applicable	Not applicable
Environmental hazard	No	No	No

Special precautions: Transport in closed, dry, secured containers away from ignition sources and incompatible materials. This determination applies to the unused finished mixture as supplied and is based on available ingredient information. Spent or contaminated material may require a different classification.

SECTION 15 REGULATORY INFORMATION

OSHA Hazard Communication	Hazardous chemical because of the OSHA-defined combustible-dust hazard. Signal word: Warning. No pictogram is assigned to this hazard.
TSCA	Intentionally added components are reported by available supplier information as listed on, active on, or exempt from the U.S. TSCA inventory.
SARA 302 and 304	No extremely hazardous substances or reportable quantities are known for the finished product as supplied.
SARA 311 and 312	Physical hazard: Combustible dust. Health hazards: Not classified based on available mixture information.
SARA 313	No intentionally added components are known to be subject to Section 313 reporting at the concentrations present.
CERCLA	No reportable-quantity ingredients are known at the concentrations present.
California Proposition 65	Natural mineral and activated-carbon ingredients may contain trace naturally occurring crystalline silica. Supplier-specific impurity data and the reasonably anticipated exposure should be evaluated before determining California warning obligations.

SECTION 16 OTHER INFORMATION

Version	1.1
Issue and revision date	September 10, 2026
Revision summary	Removed supplier-specific source references from the published SDS. Safety classifications and ingredient concentration ranges are unchanged.
Classification method	Health hazards evaluated from ingredient classifications and concentration-based mixture rules. Combustible-dust classification assigned conservatively from the powder form and activated-carbon content. The finished mixture has not been tested for Kst, minimum ignition energy, minimum explosible concentration, or self-heating behavior.

Abbreviations

Abbreviation	Meaning
CAS	Chemical Abstracts Service
DOT	U.S. Department of Transportation
HCS	Hazard Communication Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
PEL	Permissible exposure limit
RCRA	Resource Conservation and Recovery Act
STOT	Specific target organ toxicity
TWA	Time-weighted average

Disclaimer

The information in this Safety Data Sheet is based on data believed to be accurate as of the revision date and is intended only to describe the product for health, safety, and environmental purposes. It is not a warranty of product properties. Conditions of handling, use, storage, transport, and disposal are beyond the control of Bio-Dry Products, LLC. Users are responsible for determining suitability and compliance with applicable federal, state, and local requirements.

END OF SAFETY DATA SHEET