

Product Description

Bionik is a highly effective concentrated cleaner for use on any surface compatible with water. Bionik can be diluted with water at a ratio of 1:3 for degreasing or up to 1:512 parts water for cleaning glass and polished surfaces.

Bionik Cleaner is comprised of an oleo (plant oil) surfactant system and is low to moderate sudsing. It is antioxidant by nature and includes seed ester alcohols which are high triglyceride ion-saturates.

This technology creates powerful hyperactive cleaning particles which penetrate and lift fats, oils, greases, proteins, sugars and carbohydrates. Bionik simply causes organic soils containing hydrocarbon molecules to repel from the surface and suspend within the cleaning solution so that it may be rinsed away with water.

Bionik is not a soap or detergent and does not rely on a sodium (salt) base for energy potential. It does not contain petroleum reagents or ingredients and will not react with other cleaning chemistries that could potentially form dangerous polymers or off gassing. Please refer to product directions for proper use.

Advantages

Bionik will continue to break-up and solubilize fats & oils long after most cleaners are exhausted. Bionik also provides efficient suspension & *water-break* value when rinsing to assist in the removal of protein and sugar residues in order to reduce odors and bacterial growth.

Bionik is extremely versatile and highly filterable in process bath solutions. Solution is extremely safe for working use, storage and disposal.

- Advanced technology makes water to become a hyper cleaning solution
- *Readily* Biodegradable (optimum) following product use.
- Derived from renewable fruit and vegetable sources
- Does not contribute to contact dermatitis
- Dramatically reduces water spots and/or sodium calcite deposits
- Will not separate or precipitate at freezing or superheat conditions
- Will not inhibit the use of standard oil/water separators
- Will not oxidize or degrade metal, rubber, vinyl, glass or plastic
- Will not harm garment/upholstery fabrics or urethane flooring systems

Contains

A plant derived solution formulated from plant seed esters, non-ionic linear alcohol ethoxylate based surfactants, amine reacted tall oil fatty acids, water hardness modifier and de-ionized water.

Bionik does not contain: petroleum distillates, glycol ethers, terpenes, butyls, synthetics, salt builders, caustics, reagents or ozone depleting substances.

Qualifications

Efficacy: Bionik Concentrate @ 25% in solution = 100.38%

Test Method - ASTM D4488-A5 Particulate and Oily Soil/Vinyl Tiles

Aquatic Toxicology: Passed

Test Method - Protocol EPS 1/RM/24, Environment Canada, 1992.

Test Method - Environment Canada, Conservation and Protection, Ottawa Ontario. Report EPS 1/RM/25, 2nd ed. (March 2007).

Test Method - Report EPA 1/RM/22, Test of Larval Growth and Survival Using Fathead Minnows, Environment Canada, 1992.

Volatile Organic Compounds: Bionik Concentrate tested at .0003% VOC's

Test Method - USEPA Method 8260 (GC/MS Method for Volatile Organics).

This test method is equivalent to USEPA Method 8240.

Food contact surfaces: USDA A1 category cleaning in food processing areas.

This printed information is intended free for distribution throughout the United States of America, Canada, Mexico, England, China, Korea, Australia, Vietnam & Japan.

Technical Data

Category

- Cleaner, surfactant, pH 10.4
- Liquid, Plant Based
- DOT shipping class 55

Safety Data

Fire	= 0	Special	= 0
Toxicology	= 0	Health	= 0
Reactivity	= 0	Safety	= 0

Non-Toxic	Non-flammable
Non-volatile	Non-carcinogenic
Non-reactive	Non-corrosive
Non-caustic	Non-oxidizing

Specifications

Form: Liquid

Color: Amber

pH: 10.3-10.5

Odor: Pleasant/mild

Water Solubility: 99.935%

% volatile by volume: Nil

Volatile Organic Compounds: <1/100 of 1%

Dielectric Strength: 1.5 KV

Electric Conductivity: 650 micro ohms/cm

Boiling Point/Range: 100°C

Decomposition Temperature: Higher than 660°F

Evaporation Rate: .7

Explosive Properties: None

Flash Point: None: (Penske Martin Closed Cup)

Freezing Point: 30°F/-1°C

Relative Density: .96 Kg/L

Specific Gravity: 1.017 @ 60°F

Surface Tension: 29.5/cm @20°C

Vapor Pressure: 17.0mm of Hg @ 20°C

Vapor Density: .623

Viscosity @ 25°C: 137cps or 166.3cs

Packaging

1/2, 1, 5, 55, 275 & 330 U.S. Gallon poly containers labeled as:

Bionik Concentrate

100% in solution

Bionik Cleaner Degreaser

25% in solution

Bionik All Purpose Cleaner

6.25% in solution

Bionik Glass Cleaner

.4% in solution

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Bionik
Plant Based
Cleaner Concentrate
Non-Toxic | Readily Biodegradable

Directions for use

Bionik is a highly effective Concentrated Cleaner for use on any surface compatible with water. Bionik can be diluted with water at a ratio of 1:3 for degreasing or up to 1:512 parts water for cleaning glass and polished surfaces.

Bionik may also be applied undiluted. However it may be necessary to pre-wet surface to activate the chemistry and soil load.

Bionik may be used with potable or salt water and its cleaning ability is not dependent upon the pH of the solution. Mix in any sprayer, dispense through a spray foaming device or a variety of mechanical proportioning systems.

Apply solution, agitate with a brush, abrasive pad, hand cloth or water spray. Added dwell time, heat or agitation can optimize results. Rinse with clean water and dispose of wastewater in an approved manner.

Depending on the specific factors in the cleaning environment, you will find which dilution best accommodates desired cleaning speed using the least amount of Bionik Concentrate.

When diluting, it is recommended that concentrate be added to the pre-measured water to minimize foaming of the solution. The dilutions below are general recommendations for various cleaning situations.

Phase Cleaning: 10% - 25% in solution

Restoration cleaning, equipment rebuilding, bath or soak solutions, heavy cleaning: Organic soils, engines, auto parts, dried oil/enamel/latex paints, food syrups, insect smears, dried animal or vegetable fats, hardened resins, asphalt and grass or plants stains, parts washers, etc.

We recommend our VS-21 and VS-54 Solvents for removing synthetic substances and compounded lubricants, gear and rail grease, ink, adhesives, etc.

VS-21 is water compatible/rinseable and may be mixed with Bionik for heavy cleaning of synthetic soil loads in addition to stained concrete cleaning.

Cycle Cleaning: 1% - 10% in solution

General maintenance cleaning, multi-surface, spray and wipe, CIP: Work counters, and tolls, food and beverage processing equipment, carpet and upholstery, oily floors, utility equipment, walls, finished floors, vehicle washing, general janitorial, pressure sprayers, stainless steel, laminated materials, food prep surfaces, glass and polished surfaces, etc.

Glass and Polished Surfaces: 1% - 2% in solution

1/2 ounce - 2 ounces per gallon of water.

For exterior glass cleaning: apply at stronger dilution using a sprayer, foaming gun, bucket/cloth solution, etc. followed by agitation and rinsing, squeegee dry if necessary. For interior use spray on window or cloth and polish dry with a clean cloth or squeegee.

Cleaning Systems

Auto-Scrubbers, Extractors, Pressure Washers, recycling wash systems, etc. Begin with 1/2 ounce - 8 ounce in per gallon of water in baths, supply tanks, eduction lines, etc. Increase percentage gradually if necessary. For some applications including carpet spot pre-soak; mix and spray or foam up to 10% - 25% in solution. Use 1/2 ounce per gallon of water to aid in dissolving cationic detergents, organic fertilizers, treatment solutions, etc.

Note: Bionik Concentrate may tarnish some soft aluminum surfaces if not adequately diluted and rinsed with water. Test first prior to use. Contact CleanVia or your representative for additional product specific application data sheets.

Application Data

Applications

Marine

- Vessel cleaning
- Bilge pump systems
- Food preparation
- Oil Dispersion

Computer/Electronics

- Finished component prep
- Circuit board production
- Polishing slurry
- Ultrasonic cleaning

Power and Utility

- Contact and wire cleaning
- Non-conductive equipment
- Oil and water separators

Manufacturing

- Cutting and stamping lubrication
- Maintenance and rebuild

Food processing

- Fruit, vegetable and meat washing

Hospitality

- Room service
- Restroom maintenance
- Food preparation

Construction

- Equipment and tools
- Dust suppressant
- Hand washing
- Form release agent

Mass transit

- Vehicle wash
- Engine cleaning
- Graffiti prevention

Restoration

- Smoke and water damage
- Concrete cleaning
- Upholstery

Veterinary

- Animal cleaning
- Facility maintenance



