



1000 W. Valley Rd., PO Box 1553, Southeastern, PA 19399-1553 484.367.7015 www.verdafresh.com

Verdafresh™ GB10 Coating
EPA Reg. No. (not registered)

TDS No. GB10
Date of Preparation: January 2023

PRODUCT OVERVIEW

USAGE: Water-based coating applied primarily to a variety of flexible polymer films to enhance gas and grease barrier. It can also serve to coat metallized films to improve and to protect barrier surfaces.

DESCRIPTION: Clear to cloudy liquid in containers, and clear to slight haze after application to films. Method of application is typically with rotogravure or flexographic printing stations.

PHYSICAL PROPERTIES: The following are typical but not to be considered specifications

| | |
|------------------------|---|
| Appearance: | Clear to slightly cloudy in liquid form; clear when dried onto most films |
| Solids Type: | PVOH resin and PUD resin |
| Freeze/Thaw Stability: | None, best if protected from freezing |
| Non-Volatile (%): | 8.0%-12.0% |
| Specific Gravity: | 0.95-1.05 |
| pH: | 5.0-9.0 |
| Viscosity (cps): | 5-50 |
| Shelf Life: | Mixed product has shelf life of 24-48 hours with gentle circulation |

SITE OF MANUFACTURE: United States

PRODUCT/ CHEMICAL NAME: Verdafresh™ GB10 Coating

CHEMICAL FORMULA: N/A

APPLICATION DATA: Verdafresh™ GB10 is designed to have a coat weight of between 0.2 dry gsm and 0.7 dry gsm onto polymer films. It should be applied according to manufacturer's instructions without further dilution. When dried, the coating should be non-blocking and transparent. Typical application processes are with rotogravure or flexographic systems.

STORAGE: Keep containers tightly closed in a cool, well-ventilated area. Keep from freezing.

Emergency Contact: 484-367-7015, ext 1 or 610-213-4042

Transportation Emergency Contact: Office: 484-367-7015, ext 1, or Mobile: 610-213-4042

Manufacturer: Verdafresh Inc., PO Box 1553, 1000 West Valley Road, Southeastern, PA 19399-1553

Section 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Verdafresh™ GB10 coating is a proprietary blend of two (2) components: Verdafresh BXT-508 Masterbatch and AP-400 Adhesion Promoter. Primary ingredients are a blend of polymers dissolved in water and isopropyl alcohol.

Section 3 - HAZARDS IDENTIFICATION

Inhalation: May cause allergy or asthma symptoms or breathing difficulties if inhaled. [Category 1 respiratory sensitization.]

Hazardous Components: None

Health Hazards: Mild eye irritant. Mild respiratory and ingestion tract irritant.

Medical Conditions: Asthma, chronic respiratory disease may be aggravated by exposure.



Section 4 – FIRST AID MEASURES

Inhalation (chemical asthma): Move to area free from exposure to vapors.

Eye Contact: Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes.

Skin Contact: Wash affected area with mild soap and water.

Ingestion: Immediately rinse mouth with water and get medical attention. Never give anything by mouth to an unconscious person. If any discomfort persists, obtain medical attention.

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Section 5 – FIRE-FIGHTING MEASURES

Autoignition Temperature: NA. Material is non-flammable.

Section 6 – ACCIDENTAL RELEASE MEASURES

Containment Techniques: Stop the leak, if possible. Collect liquid and transfer to drums or tanks for later disposal.

Clean-Up Procedures: Absorb spilled liquid onto dry absorbent. Shovel absorbent into empty, dry container for later disposal. Flush spill area with copious amounts of water.

Other emergency advice: Surfaces subject to spills with this product can become slippery. Material forms slippery surface. Use care to avoid falls.

Section 7 – HANDLING AND STORAGE

Handling Precautions: Do not get in eyes.

Storing and Handling: Keep in cool, dry, ventilated storage and in closed containers.

Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Chemical Safety Glasses.

Hand Protection: Not required under normal conditions.

Respiratory Protection: Not required under normal conditions.
Protective Clothing: No specific recommendation.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------------------------|---|
| Appearance and Odor: | clear or cloudy color liquid, slight alcohol odor |
| Density: | 1.03 |
| % Non-Volatile by wt.: | 9% -11% |
| pH | 7.5-9.5 |
| Viscosity, #2 Zhan Cup, seconds @18°C | 25 to 35 |
| Flash Point: | n/a |
| Vapor Pressure (mm Hg at 25°C): | n/a |

Section 10 – STABILITY AND REACTIVITY

Stability: Verdafresh™ GB10 is stable at room temperature and elevated storage temperatures up to 150F (85C) in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization cannot occur.

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Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity: Oral LD50 (rat): >500 g/kg.
Dermal LD50 (rabbit): Not Toxic.
Inhalation LC50 (rat): Not Applicable.
Other Acute Effects: No Data
Chronic/Sub-chronic: No delayed, sub-chronic or chronic test data are known.

Section 12 – ECOLOGICAL INFORMATION

Aquatic Toxicity: None.
Incompatibility: Oxidizing agents (i.e. perchlorates, nitrates etc.)
Hazardous Decomposition (from burning, heating or reaction with other materials): Carbon monoxide and hydrocarbon oxidation products, including acids, aldehydes and alcohols.
Aldehydes from Decomposition. Irritating and toxic fumes at elevated temperatures.

Section 13 – DISPOSAL CONSIDERATIONS

Waste Dispose Method: Dispose of as a non-hazardous waste. Dispose of in an approved landfill if allowed locally. Comply with all Federal, State, and Local regulations. Chemical and/or biological degradation is feasible.

Section 14 – TRANSPORT INFORMATION

DOT Transportation Data (49 CFR 172.101) Not regulated by D.O.T.

Section 15 – REGULATORY INFORMATION

Federal

Toxic Substance Control Act: All components are listed or are exempt from listing on the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

OSHA Hazard Communication Standard (29CFR1019.1200) hazard classes: None

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III: Section 312 (40CFR370) Hazard Class: None

EPA SARA Title III Section 313 (40CFR372) toxic chemicals above *de minimus* levels are: None

State

Proposition 65 Substances component(s) known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986": None

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The information in this Material Safety Data Sheet is believed to accurately reflect the scientific evidence used in making the hazard determination. It is considered only as a guide, and not a warranty or representation for which we assume legal responsibility. Independent decisions must be made on the suitability and use of this product dependent on variable storage conditions or locally applicable laws or government regulations. The buyer and user assume all risk and liability of storage, handling, and use of this product not in accordance with the terms of the product label.

Section 16 – OTHER INFORMATION

Prepared By: Verdafresh Inc., PO Box 1553, 1000 West Valley Road, Southeastern, PA 19399.

Revision Notes: No Revisions.

Disclaimer: The data in this Technical Data Sheet relates only to the specific material designated herein and does relate to use in combination with any other material or in any process.

Engineering Controls: No specific controls needed.

Work & Hygienic Practices: Provide readily accessible eye wash stations.