

Product Information

DANTOGARD™ PLUS LIQUID

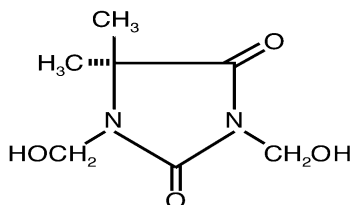
Household and Industrial Preservative

CAS No.: 6440-58-0 & 55406-53-6

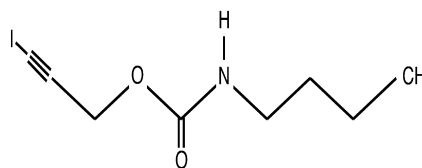
Description

Dantogard™ Plus Liquid is one of the most advanced preservative blends produced to date. Dantogard™ Plus Liquid combines a well recognized germicide (DMDM Hydantoin) with an effective fungicide (Iodopropynyl Butylcarbamate). This new and improved preservative is based on patented Lonza Inc. technology. The advanced technology provides the lowest free formaldehyde available to the industry and results in greater safety and reduced regulatory issues. Additionally, this new Lonza technology provides Dantogard™ Plus Liquid with improved temperature stability, a distinct advantage over competitive DMDMH products. Dantogard™ Plus Liquid continues the hydantoin leadership set by Lonza for the past three decades.

Dantogard™ Plus Liquid



DMDM Hydantoin



Iodopropynyl Butylcarbamate

Features/Benefits

- * Ultra-Low Free Formaldehyde (<0.1%)
- * Concentrated, No Diluents or Binders
- * Comprehensive Toxicology Package
- * Broad Spectrum Activity
- * Water-White Clarity
- * Best EPA Skin Irritation Rating
- * Improved Plant Safety
- * Reduced Regulatory Issues
- * Less Plant Training Required
- * Inventory, Storage Cost Reductions
- * Minimum Risk to User
- * Maximum Cost-Effective Preservation
- * Color Stability in Formulations
- * Fewer Crystallization Problems

Applications

Dantogard™ Plus Liquid is based on DMDM Hydantoin and Iodopropynyl Butylcarbamate. Dantogard™ Plus Liquid is compatible in a range of aqueous formulations. Products include but are not limited to:

Surfactants	Household Cleaning Products
Dish Detergents	Car Washes
Neutral Cleaners	Wax Strippers
Light Duty Detergents	

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Suggested Use Rates

A unique, easy-to-use and cost-effective preservative, Dantogard™ Plus Liquid is typically used at 0.15 - 0.60% in household, institutional, and industrial products. Dantogard™ Plus Liquid is stable over a wide range of pH (3 - 10).

Solubility

Dantogard™ Plus Liquid is readily soluble in any aqueous phase, as well as in polar organic solvents such as alcohols, glycols, glycol esters, alkyl sulfates, amphoterics and alkanolamides.

Compatibility

Dantogard™ Plus Liquid is compatible with virtually all raw materials used in household and industrial formulations including anionic, cationic and nonionic surfactants, thickening agents, chelating agents, colors and fragrances. A stability study has been conducted by adding 0.3% Dantogard™ Plus Liquid in a broad variety of products, and by checking viscosity, pH, color and homogeneity of the end products after 1 month at room temperature and 50°C. Dantogard™ Plus Liquid proved to be compatible with all the tested products. No major change was observed for either criteria.

Physical Properties

Activity DMDMH	~70 %
Activity IPBC	~2.5%
Physical Form	Clear water white liquid, low viscosity
Odor	Low characteristic

Typical Properties (as supplied)

% Total Formaldehyde	13.0 Min.
% Free Formaldehyde	0.09 Max.
% IPBC	2.2 – 2.8
Color, APHA	50 Max.
% Water Content, w/w	22.0 – 26.0
pH	6.0 – 8.0
Flash Point	> 93°C.

Regulatory Status

EPA Registration No:	6836-271
INCI Designation	DMDM Hydantoin (and) Iodopropynyl Butylcarbamate
CAS No.	6440-58-0 & 55406-53-6
EINECS No.:	229-222-8 / 259-627-5
UN No.:	UN 3082

The components of Dantogard™ Plus Liquid are listed in the United States Environmental Protection Agency TSCA Inventory list.

Analytical procedure

Analytical methods to determine free and total formaldehyde of Dantogard™ Plus liquid and formulated products are available upon request.

- HPLC to determine IPBC in Dantogard™ Plus Liquid.

Packaging / Storage

Dantogard™ Plus Liquid is supplied in polyethylene pails or polyethylene drums. It can be stored for 18 months in the sealed original packaging, at a temperature between 60°F. and 75°F (15°C and 24°C.) The product must be kept protected from light and freezing.

Manufacturing Location

Williamsport, PA

Dantogard™ Plus Liquid has been incorporated into a broad number of household and industrial formulations. For questions or further information, please e-mail Technical Sales Support at contact.allendale@lonza.com or call (800) 365-TECH (8324).