

Total-Shield Plus HG®

DECONTAMINATION OF HAZARDOUS DRUGS ON HARD, NON-POROUS SURFACES

Total-Shield Plus HG® Sporidical Disinfectant Solution (EPA Reg. No. 58300-25-96853) Effectively removes hazardous drugs from hard, non-porous surfaces including stainless steel.

Personal Protection (PPE)

Persons handling Total-Shield Plus HG® Disinfectant and items soiled with hazardous drug compounds must protect themselves by using the appropriate Gowns, head, hair, shoe covers, eye coverings and two pairs of chemotherapy gloves or as described in the entities SOP.

Material Compatibility

The active ingredients in Total-Shield Plus HG® break down into water, vinegar, and oxygen during use, leaving no persistent, harmful, or corrosive residues behind. Because of this, Total-Shield Plus HG® can be used on a wide variety of surfaces. Unlike products with Sodium hypochlorite (bleach), Total-Shield Plus HG® will not corrode or pit stainless steel during normal use.

Decontamination and Disinfection of Contaminated Surfaces

Surfaces contaminated with hazardous drug compounds should be thoroughly cleaned using Total-Shield Plus HG® Disinfectant in conjunction with disposable iso class 5 wipes or appropriate cleaning tool pads per the following decontamination protocol:

1. Remove excess liquid from the surface to be treated using dry iso class 5 wipes.
2. Saturate new dry wipe or cleaning tool pad with Total-Shield Plus HG® solution.
3. Clean the surface with the saturated wipe or cleaning tool, utilizing overlapping, unidirectional strokes.
4. Discard contaminated pads or wipes in a manner consistent with facility guidelines and local regulations.
5. Repeat steps 2-4 as needed³
6. If disinfection is desired, follow label directions.¹
7. Finish by wiping with a sterile alcohol (70% IPA/30% deionized water), using either a pre-saturated wipe, sterile alcohol with an iso class 5 wipe or cleaning tool pad.

Disinfection Contact Time

For Disinfecting, surfaces must remain visibly wet with Total-Shield Plus HG® for prescribed contact (dwell) time for disinfection to occur.

Decontamination Results for Common Hazardous Drugs²

Using Total-Shield Plus HG® disinfectant, per the decontamination protocol outlined above, results from testing at an accredited third-party lab demonstrate the percent removal of several types of hydrophilic and hydrophobic hazardous drugs:

Antineoplastic Agent	5-Fluorouracil	Cyclophosphamide	Ifosfamide	Methotrexate	Paclitaxel	Cisplatin
Cas #	51-21-8	50-18-0	3778-73-2	59-05-2	33069-62-4	15663-27-1
% Removed	99.993	99.989	99.985	99.996	99.746	99.978

Antineoplastic Agent	Etoposide	Carboplatin	Doxorubicin	Irinotecan	Vincristine Sulfate
Cas #	33419-42-0	41575-94-4	23214-92-8	97682-44-5	57-22-7
% Removed	99.965	99.954	99.988	99.987	99.995

¹ See Total-Shield Plus HG® Sporidical Disinfectant Solution label for complete disinfecting instructions.

² All HD's listed above have been verified by independent lab testing.

³ to achieve the results of decontamination, the independent lab only did steps 1-4 once.