

GreenScreen® for Safer Chemicals v1.3

GreenScreen Benchmarks™



ABBREVIATIONS

- P** Persistence
B Bioaccumulation
T Human Toxicity and Ecotoxicity

GREENSCREEN BENCHMARK - 4

Low P* + Low B + Low T (Ecotoxicity, Group I, II and II* Human) + Low Physical Hazards (Flammability and Reactivity) + Low (additional ecotoxicity endpoints when available)



Prefer—Safer Chemical

GREENSCREEN BENCHMARK - 3

- Moderate P or Moderate B
- Moderate Ecotoxicity
- Moderate T (Group II or II* Human)
- Moderate Flammability or Moderate Reactivity



Use but Still Opportunity for Improvement

GREENSCREEN BENCHMARK - 2

- Moderate P + Moderate B + Moderate T (Ecotoxicity or Group I, II, or II* Human)
- High P + High B
- High P + Moderate T (Ecotoxicity or Group I, II, or II* Human)
- High B + Moderate T (Ecotoxicity or Group I, II, or II* Human)
- Moderate T (Group I Human)
- Very High T (Ecotoxicity or Group II Human) or High T (Group II* Human)
- High Flammability or High Reactivity



Use but Search for Safer Substitutes

GREENSCREEN BENCHMARK - 1

- PBT = High P + High B + [very High T (Ecotoxicity or Group II Human) or High T (Group I or II* Human)]
- vPvB = very High P + very High B
- vPT = very High P + [very High T (Ecotoxicity or Group II Human) or High T (Group I or II* Human)]
- vBT = very High B + [very High T (Ecotoxicity or Group II Human) or High T (Group I or II* Human)]
- High T (Group I Human)



Avoid—Chemical of High Concern

GREENSCREEN BENCHMARK - U

Unspecified Due to Insufficient Data

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See Guidance (GreenScreen for Safer Chemicals Hazard Assessment Guidance) at <http://greenscreenchemicals.org/method/method-documents> for instructions.

Group I Human includes Carcinogenicity, Mutagenicity/Genotoxicity, Reproductive Toxicity, Developmental Toxicity (incl. Developmental Neurotoxicity), and Endocrine Activity. **Group II Human** includes Acute Mammalian Toxicity, Systemic Toxicity/Organ Effects-Single Exposure, Neurotoxicity-Single Exposure, Eye Irritation and Skin Irritation. **Group II* Human** includes Systemic Toxicity/Organ Effects-Repeated Exposure, Neurotoxicity-Repeated Exposure, Respiratory Sensitization, and Skin Sensitization. Immune System Effects are included in Systemic Toxicity/Organ Effects. **Ecotoxicity** includes Acute Aquatic Toxicity and Chronic Aquatic Toxicity.

* For inorganic chemicals, Persistence alone will not be deemed problematic. See Section 13.4 in this Guidance.