

# Stabilizers for Personal Care Cheat Sheet



Product Information							Application					
Product Category	Trade Name	INCI Name	Appearance	Solubility	Type	Rec. Dosage %	Hair Care / Styling	Color Cosmetics	Body Cleansing	Skin Care	AP / Deo	Application Remarks
Light Stabilizer	<b>Tinogard® TL</b>	Benzotriazolyl Dodecyl p-Cresol	Yellowish oil	Oil & alcohol	Nonionic	0.01 to 0.10	●	●	●	●	●	Can be easily incorporated in all (oil based /aqua based) systems; usually needs to be pre-mixed in fragrance (alcohol), oil phase, nonionic surfactant or solubilizer; not soluble in water and anionic surfactants directly
	<b>Tinogard® HS</b>	Sodium Benzotriazolyl Butylphenol Sulfonate	White powder	Water & alcohol	Anionic	0.01 to 0.10	●	•	●	•	•	Suitable for all kinds of aqueous and alcoholic formulation, readily soluble in water, no pre-dissolving necessary; will not work with cationic formulations
	<b>Cibafast® H Liquid</b>	Sodium Benzotriazolyl Butylphenol Sulfonate (and) Buteth-3 (and) Tributyl Citrate	33 % Yellowish, brown liquid	Water & alcohol	Anionic	0.03 to 0.30	●	•	●	•	•	Suitable for all kinds of aqueous and alcoholic formulations, liquid form of Tinogard® HS: can be used directly; no pre-mixing necessary
	<b>Tinogard® AS</b>	Bumetrizole	Yellowish powder	Oil	Nonionic	0.01 to 0.10	●	●	●	●	●	Versatile applicable, shows high performance in lipophilic systems; most difficult in conjunction with water based formulations; usually needs to be pre-dissolved in fragrance (alcohol), oil phase, nonionic surfactant or solubilizer under heat and stirring for a few hours; not soluble in water and anionic surfactants directly
Excited State Quencher	<b>Tinogard® Q</b>	Tris (Tetramethyl-hydroxypiperidinol) Citrate (and) Water (and) Ethanol	10 % Yellowish, orange liquid	Water & alcohol	Organic salt	0.01 to 0.10	●	•	●	●	●	Combinations of UV absorbers with Tinogard® Q result in highly effective stabilizer systems for protection of transparent packaged products from light induced degradation; can be used directly; no pre-mixing necessary
Antioxidants	<b>Tinogard® TT</b>	Pentaerythrityl Tetra-Di-t-Butyl Hydroxyhydrocinnamate	White to off-white powder	Oil	Nonionic	0.01 to 0.10	●	●	•	●	●	Phenolic, most efficient antioxidant for lipophilic systems; most difficult in conjunction with water based formulations; usually needs to be pre-dissolved in fragrance (alcohol), oil phase, nonionic surfactant or solubilizer under heat and stirring for a few hours; not soluble in water and anionic surfactants directly.
	<b>Tinogard® TT DD</b>	Pentaerythrityl Tetra-di-t-Butyl Hydroxyhydrocinnamate	White to off-white pellets	Oil	Nonionic	0.01 to 0.10	●	●	•	●	●	Pellet form of Tinogard® TT, easy to handle, phenolic antioxidant for stabilization of oxidation sensitive cosmetic formulations and ingredients
	<b>Tinogard® TS</b>	Octadecyl Di-t-Butyl-4-Hydroxyhydrocinnamate	Fine white granules	Oil	Nonionic	0.01 to 0.10	•	•	●	•	•	Phenolic, most compatible antioxidant for nonionic surfactant formulations; usually needs to be pre-dissolved in fragrance, oil phase, nonionic surfactant or solubilizer under heat and stirring for a few hours; not soluble in water and anionic surfactants directly
	<b>Tinogard® DA</b>	Dilauryl Thiodipropionate	White to slightly yellowish flakes	Oil	Nonionic	0.01 to 0.10	•	•	●	•	•	Non-phenolic, shows synergy with Tinogard® TT or Tinogard® TS; usually used together with Tinogard® TT or Tinogard® TS at a ratio of 1:1; usually needs to be pre-dissolved in fragrance, oil phase, nonionic surfactant or solubilizer under heat and stirring; not soluble in water and anionic surfactants directly

China: all products listed in IECIC

● Recommended • Suitable

Status: Oct 2016

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