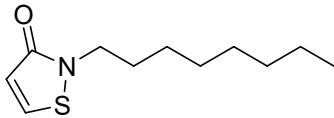


皮膚障害物質データシート

2-n-Octyl-4-isothiazolin-3-one (OIT)

化学構造式 (Structure)	
化学物質名 (Generic Name)	2-n-Octyl-4-isothiazolin-3-one (OIT) 2-n-オクチル・4-イソチアゾリン・3-オン
元素組成、分子量 (Molecular Formula, Molecular Weight)	C ₁₁ H ₁₉ NOS = 213.34
NITE-CHRIP ID	C005-535-08A
用途 (Use, Activity)	抗菌防臭剤, 殺菌剤

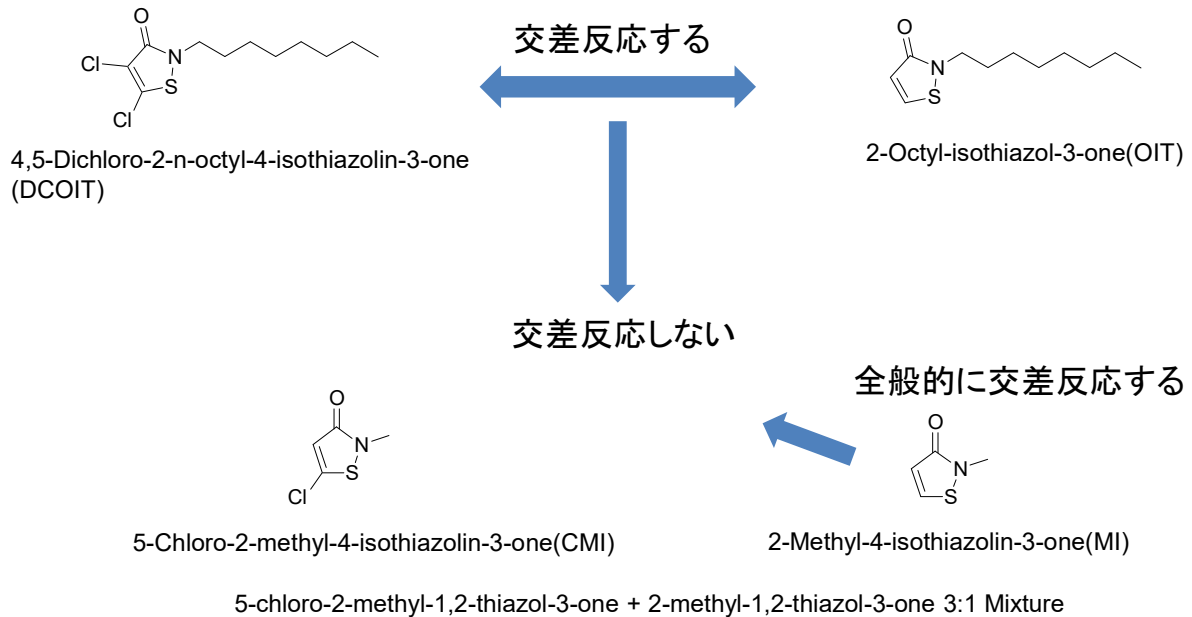
化合物情報、皮膚障害情報

2-n-Octyl-4-isothiazolin-3-one (OIT) は、4-イソチアゾリン・3-オン構造を持つ、抗菌防臭剤、殺菌剤で脂溶性であり、繊維、プラスチック等に含有されている。OIT は、塗料等に含まれ、職業性アレルギー性接触皮膚炎の事例や感作性が以前から報告されている (1-16)。

一方、感作物質として知られている 2-Methyl-4-isothiazolin-3-one (MI) やイソチアゾリノンミックス (5-Chloro-2-methyl-4-isothiazolin-3-one (CMI) + 2-Methyl-4-isothiazolin-3-one (MI) 3:1 Mixture) は、水溶性であり、用途が分かれている。

2009 年日本で冷却ゲルが入った冷却パッド (寝具) によるアレルギー性接触皮膚炎が発生し、NITE に事故情報が報告された。事故原因究明テストの結果、OIT が冷却ゲルから検出され、パッチテストで陽性反応 (OIT 0.1%pet ++ (17)) を示したことからアレルギー性接触皮膚炎の原因物質として確認された (17)。冷却ゲルから側生地にも OIT が移行し、皮膚接触により感作が成立し、アレルギーを発症したものと考えられる。

OIT、4,5-Dichloro-2-octyl-4-isothiazol-3-one (DCOIT)、CMI、MI 等の 4-イソチアゾリン・3-オン構造を持つ類似の化学物質は、感作物質として知られており、それぞれに交差反応の特長がある (図-1) (18-22)。



図－1 4-イソチアゾリン-3-オン系防腐剤・抗菌剤の交差反応

注意喚起・プレスリリース・回収情報

厚生労働省報道資料

冷却パッドの使用に伴う重大製品事故について

<https://www.mhlw.go.jp/stf/houdou/2r98520000005297.html> (2025/1/14 確認)

NITE プレスリリース

冷却パッドの使用に伴う事故について

<https://www.nite.go.jp/jiko/chuikanki/press/2009fy/100326.html> (2025/1/14 確認)

NITE リコール情報 2009 年度

2010/03/24 __株式会社オーシン__冷却パッド

https://www.nite.go.jp/jiko/jikojohou/recall_new/2010/10032404.html (2025/1/14 確認)

NITE 事故情報 (NITE-Accident information)

2009-2105 冷却ジェルパッド (シート用)

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