

## Title (en)

REDUCTION OF BENZYL ALCOHOL EMISSIONS FROM EPOXY AMINE FORMULATIONS BY ADDING CYCLODEXTRIN

## Title (de)

REDUKTION DER BENZYLALKOHOLEMISSIONEN VON EPOXYAMINFORMULIERUNGEN DURCH ZUGABE VON CYCLODEXTRIN

## Title (fr)

RÉDUCTION DES ÉMISSIONS D'ALCOOL BENZYLIQUE DE FORMULATIONS D'ÉPOXYAMINES PAR L'AJOUT DE CYCLODEXTRINE

## Publication

**EP 2943530 A1 20151118 (DE)**

## Application

**EP 14700079 A 20140107**

## Priority

- EP 13150552 A 20130108
- EP 2014050114 W 20140107
- EP 14700079 A 20140107

## Abstract (en)

[origin: WO2014108380A1] The present invention relates to reactive resin compositions comprising at least one polymerisable system, at least one volatile organic compound, cyclodextrin, and where necessary at least one hardening agent, which are obtainable by mixing the polymerisable system with the volatile organic compound and the cyclodextrin and storing the mixture for a period until an equilibrium is established between the volatile organic compound and the cyclodextrin. By adding cyclodextrin it is possible to reduce the VOC emissions of corresponding reactive resin compositions significantly, the observed effect being greater than would be expected on the basis of the molar ratio of the volatile organic compound to the cyclodextrin. The reactive resin composition can thus be used advantageously in applications such as coatings and/or sealants, in which the evaporation of organic compounds should be avoided.

## IPC 8 full level

**C08K 5/1545** (2006.01); **C08G 59/18** (2006.01); **C08L 63/00** (2006.01); **C08L 75/04** (2006.01); **C09D 163/00** (2006.01); **C09D 175/04** (2006.01)

## CPC (source: EP US)

**C08K 5/1545** (2013.01 - EP US); **C08L 63/00** (2013.01 - EP US); **C08L 75/04** (2013.01 - US); **C09D 163/00** (2013.01 - US); **C09D 175/04** (2013.01 - EP US)

## Citation (search report)

See references of WO 2014108380A1

## Cited by

CN110092883A

## Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

## Designated extension state (EPC)

BA ME

## DOCDB simple family (publication)

**WO 2014108380 A1 20140717**; EP 2943530 A1 20151118; US 2015353723 A1 20151210

## DOCDB simple family (application)

**EP 2014050114 W 20140107**; EP 14700079 A 20140107; US 201414759835 A 20140107