

Country	United Kingdom
SubmitterType	BehalfOfAnOrganisation
OrganisationType	Company-Manufacturer
OrganisationCountry	Germany
DontDiscloseNameIfPublished	Yes
ProductType	PT08
GeneralComments	<p>Today there are many borate containing product BPR authorisations for use class (UC) 1 and UC 2. There are currently no borate containing products authorised for product type (PT 8) in UC 3 and UC 4. The only UC 4 product containing borates currently authorised is a remedial pole paste and therefore not a primary wood preservative.</p>
AltIdentityAndProp	<p>The higher the use class and with biological deterioration pressures increasing the more complex is wood preservation. Particularly in the higher use classes wood preservation products must provide timber with significantly enhanced durability against the more extreme biological deterioration pressures. In addition to regulatory requirements products must also fulfil requirements of the various quality schemes such as NTR and FCBA , proving efficacy with field testing. Therefore, it is the higher use classes that have only limited chemistries available.</p> <p>The three main categories in the wood preservatives market for UC 3 and UC 4 are:</p> <ul style="list-style-type: none"> • Copper - azoles • Copper - quaternary ammonium compounds (quats) • Copper - HDO used with other copper compounds <p>Some of the copper azole products may also contain quats.</p> <p>Borates are typically combined with copper quat and copper HDO and often used to improve the penetration and retention of copper and other organic biocides. Currently there are no borate containing products authorised for UC 3 and UC 4</p>
TechFeasibility	<p>Alternative wood preservation products for all use classes are currently used, all such products containing different active substance combinations and authorised according to BPR. This is the case for the more complex UC 3 and UC 4 also with authorised products demonstrating efficacy against relevant target species in the various climates and regions. Borates are highly leachable and in UC3 and 4 environments, they are readily leached from timber and do not provide any long-term preservation benefits.</p>
EcoFeasibility	<p>Use of boron free products is economically feasible for all use classes with highly effective products available at comparable total costs for these markets.</p>
HazAndRisks	<p>Borate free products are authorised for the different use classes demonstrating acceptable risk of use.</p>

Availability	Borate free wood preservation products are authorised for the European market in the different use classes, including the more complex UC 3 and UC 4.
AltSuitAvailConcl	Borate free wood preservation products are authorised for the European market in the different use classes UC 1 through UC 4. There are currently no borate containing products authorized for UC 3 and UC 4. Use of boron free products is economically feasible for all use classes with highly effective products authorized and available at comparable total costs for these markets.
References	Nordiska Träskyddsrådet Nordic Wood Preservation Council Quality Scheme French Institut Technologique Foret Cellulose Bois-construction Ameublement (FCBA)
SubstanceName	Disodium tetraborate pentahydrate
CommentType	PublicComments
ECNumber	215-540-4
CASNumber	12179-04-3
CompetentAuthority	The Netherlands
CommentRegarding IntendedUse	8 Disodium tetraborate pentahydrate acts a fungicide and insecticide; and is used for industrial, professional, and non-professional users as a preventive and curative wood preservative for wood and construction timbers in Use Classes 1, 2, 3 and 4a according to CEN 335-1. Products are applied by vacuum pressure, dipping, injection, spraying/deluge, or brushing