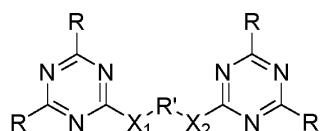


Claims

1. A triazine compound according to Formula 1:



FORMULA 1

with R = phosphite substituted with alkyl, functionalized alkyl, aryl, functionalized aryl, except halogen-substituted alkyl or aryl;

R' = alkylene, arylene, alkoxy or aryloxy, all unsubstituted or functionalized, except halogen-substituted;

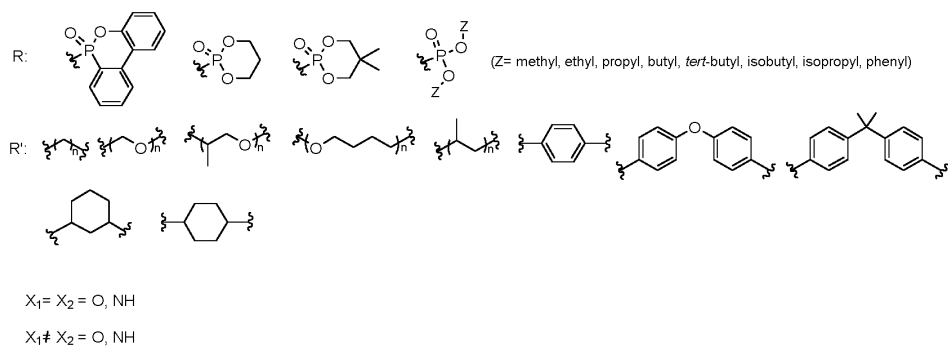
X₁ and X₂ = hetero atoms and X₁ = X₂ or X₁ not = X₂

except where X₁ and X₂ = NH,

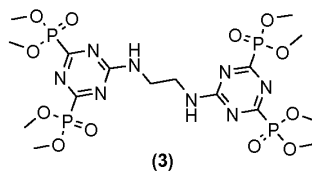
- if R is Et,
R' is not phenylene; 2-methyl-1,3-phenylene;
2,4,6-trimethyl-phenylene;
1,3-xylylene; diphenylmethane-4,4'-diyl;
1,2-ethylene; 1,3-propylene; 1,6-hexylene;
1,8- (3,6-dioxa octylene) or pyrid-2,6-diyl;
- if R is Me,
R' is not 1,3-phenylene or 2,6-dimethyl-1,3-propylene,
and
- if R is iPr,
R' is not 1,3-phenylene or 1,12-dodecylene.

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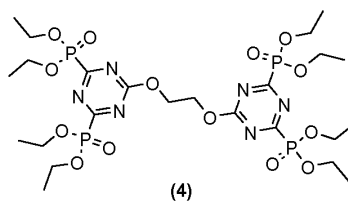
2. The triazine compound as claimed in claim 1, where



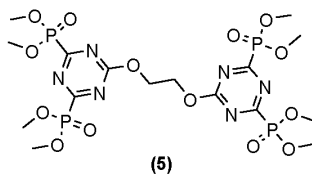
3. The triazine compound as claimed in claims 1 or 2, according to Formula 3:



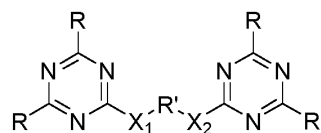
4. The triazine compound as claimed in claims 1 or 2, according to Formula 4:



5. The triazine compound as claimed in claims 1 or 2, according to Formula 5:



6. A flame retardant comprising a compound according to Formula 1:



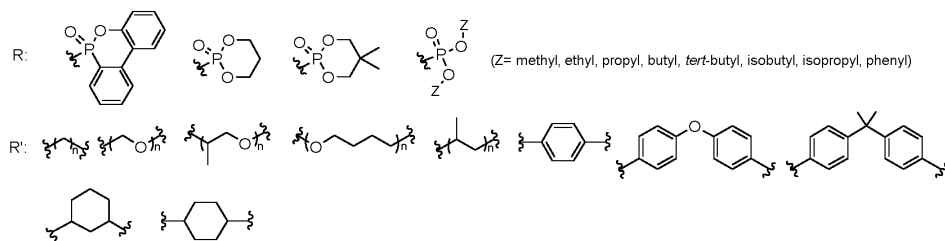
FORMULA 1

with R = phosphite substituted with alkyl, functionalized alkyl, aryl, functionalized aryl, except halogen-substituted alkyl or aryl;

R' = alkylene, arylene, alkoxy or aryloxy, all unsubstituted or functionalized, except halogen-substituted;

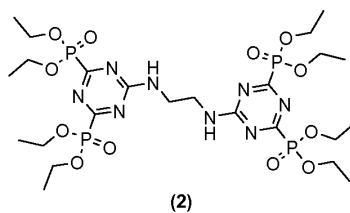
X_1 and X_2 = hetero atoms and $X_1 = X_2$ or $X_1 \neq X_2$

7. The flame retardant as claimed in claim 6, where

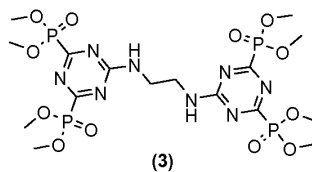

$$X_1 = X_2 = O, NH$$
$$X_1 \neq X_2 = O, NH$$

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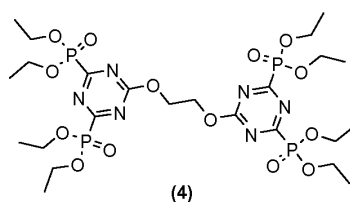
8. The flame retardant as claimed in claim 6 or 7 comprising a compound according to Formula 2:



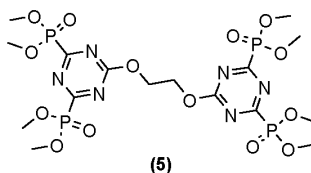
9. The flame retardant as claimed in claim 6 or 7, comprising a compound according to Formula 3:



10. The flame retardant as claimed in claims 6 or 7, comprising a compound according to Formula 4:



11. The flame retardant as claimed in claim 6 or 7, comprising a compound according to Formula 5:



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12. The flame retardant according any one of claims 6 to 11, comprised in a coating for a flammable material.
13. A product containing at least one flame retardant as claimed in one of claims 6 to 11.
14. The product of claim 13, comprising the flame retardant in a coating.
15. The product of claim 13 or 14, comprising the flame retardant as a component in the product.
16. The product of any one of claims 13 to 15, comprising the flame retardant at a concentration above 1 wt.%, especially above 2 wt.%, preferably above 5 wt.% or even above 10 wt.% based on total wt. of the product.