

E&E applications of Sb (Sb compounds)

20. Mrz 08

Sb compound	CAS nr	C&L acc. to 67/548	E&E application or component	% purity Sb compound used	% Sb ending up in end application	comments	
Antimony trioxide	1309-64-4	Xn; R40	Flame retardants synergist	99,50%	1-7w%	No risks identified for consumer exposure in the risk assessment report; no reason to include ATO to the RoHS list	
			FR wire & cable		1-5w%		
			FR housing for TV,PPC etc		3-7w%		
			FR connector & switch etc		3-7w%		
			FR semiconductor encapsulant		1-2w%		
			melting agent: glass, enamel and ceramic manufacture		0.1-0.8%	ceramics (pigment), enamel (pigment) or glass (degasser, fining agent) manufacture ATO is bound within the matrix of the support material and will therefore no longer be present as ATO.	
Antimony pentoxide	1314-60-9	none	FR for PVC (specially for car interiors)		1-5w%	+,-1,4*ATO for some applications	
Antimony Trisulphide	1345-04-6	none	red dye in rubber vulcanisation				
			in combination with ATO: yellow pigment in glass and porcelain			ceramics (pigment) or glass (pigment) manufacture Antimony trisulphide is bound within the matrix of the support material and will therefore no longer be present as Antimony trisulphide . Sb2S3 is not classified and therefore no reason to add it to the RoHS list.	
Antimony Pentasulphide	1315-04-4	none	red dye in rubber vulcanisation			Sb2S5 is not classified and therefore no reason to add it to the RoHS list.	
Sodium antimonate	15432-85-6 or	Xn; R20/22 and N; R51/53(*)	Flame retardants synergist	98,00%	5-10w%	N and R51/53 only valid above 25% in final application which is not reached. No reason to consider this substance as a PBT; no reason to add it to the RoHS list.	
			FR connector & switch etc		5-7w%		
		33908-66-6		melting agent: glass manufacture		0.1-0.8%	Sodium antimonate will be converted during the manufacturing EEE process(degasser, fining agent); bound to the matrix of the support material and therefore no longer present as sodium antimonate. No reason to include it to the RoHS list.
Antimony metal/alloy	7440-36-0	none	recording media	99,99%		Sb metal does not fall under the compounds definition - therefore not affected by the general C&L of other Sb compounds in Annex I. No reason to add it to the RoHS list.	
			in tin-lead solders (manufacture of circuit boards)				0.12-2.4%
			thermoelectric generator/peltier device				

(*) specific concentration limits apply for preparations:

C ≥ 25 %: Xn, N; R20/22-51/53

2,5 % ≤ C < 25 %: Xn; R20/22-52/53

0,25 % ≤ C < 2,5 %: Xn; R20/22