Summary of Risk Management Measures

Tetraethylorthosilicate (TEOS) (CAS 78-10-4)

Safe use has been demonstrated by calculation of risk characterisation ratios. These are based on the following risk management measures:

Exposure scenario	**Description**	**General measures**	**Specific Human Health risk management measures**	**Specific Environment risk management measures**
ES1	Production and on site use (site specific)	(i) Procedural and technological control using Best Available Technique (BAT)	(i) Local Exhaust ventilation (LEV) (ii) Personal Protective Equipment (PPE): Butyl or neoprene rubber type gloves/gauntlets and protective clothing (iii) Specific workers' training	The following are applicable as a 'best practice': (i) Use of air emission abatement equipments such as incinerators and scrubbers (ii) Treatment of effluent in biological waste water treatment plant (iii) Incineration of waste
ES2, ES3, ES4, ES5,	Monomer, intermediate, Formulation of coatings, industrial use of coatings (A)	(i) Procedural and technological control using Best Available Technique (BAT)	(i) Personal Protective Equipment (PPE): Butyl or neoprene rubber type gloves/gauntlets and protective clothing (ii) Workers' training	(i) Treatment of effluent in waste water treatment plant (WWTP) is applicable as a 'best practice'
ES6	Industrial use of coatings (B)	(i) Procedural and technological control using Best Available Technique (BAT)	(i) Local Exhaust Ventilation (LEV) (ii) Personal Protective Equipment (PPE): Butyl or neoprene rubber type gloves/gauntlets and protective clothing (iii) Workers' training	(i) Treatment of effluent in waste water treatment plant (WWTP) is applicable as a 'best practice'
ES7	Professional and consumer use of coating,	N/A	(i) Respiratory Protective Equipment (RPE) for indoor spraying without ventilation for professional use	(i) Standard municipal WWTP
ES 8	Formulation of sealants	(i) Procedural and technological control using Best Available Technique (BAT)	(i) Personal Protective Equipment (PPE): Butyl or neoprene rubber type gloves/gauntlets and protective clothing (ii) Local Exhaust Ventilation (LEV) for	(i) Treatment of effluent in waste water treatment plant (WWTP) is applicable as a 'best practice'

Exposure scenario	Description	General measures	Specific Human Health risk management measures	Specific Environment risk management measures
			transfer and loading at non-dedicated facilities (PROC8a), if duration of exposure exceeds 4 hours (iii) Workers' training	
ES 9	Industrial use of sealants	(i) Procedural and technological control using Best Available Technique (BAT)	(i) Personal Protective Equipment (PPE): Butyl or neoprene rubber type gloves/gauntlets (ii) Workers' training	(i) Treatment of effluent in waste water treatment plant (WWTP) is applicable as a 'best practice'
ES10	Professional and consumer use of sealant	N/A	N/A	(i) Standard municipal WWTP
ES11, 12	Formulation and use of non-metal and metal pigment surface treatment solutions/dispersions, in-situ non-metal surface treatment	(i) Procedural and technological control using Best Available Technique (BAT	(i) Personal Protective Equipment (PPE): Butyl or neoprene rubber type gloves/gauntlets (ii) Workers' training	(i) Treatment of effluent in waste water treatment plant (WWTP)
ES13	Use in semiconductor manufacturing	(i) Procedural and technological control using Best Available Technique (BAT	(i) Local Exhaust ventilation (LEV) (ii) Personal Protective Equipment (PPE): Butyl or neoprene rubber type gloves/gauntlets (iii) Workers' training	(i) Treatment of effluent in waste water treatment plant (WWTP) is applicable as a 'best practice'.
ES14	Formulation of masonry products	(i) Procedural and technological control using Best Available Technique (BAT	(i) Personal Protective Equipment (PPE): Butyl or neoprene rubber type gloves/gauntlets (ii) Workers' training	(i) Treatment of effluent in waste water treatment plant (WWTP) is applicable as a 'best practice'.
ES15	Industrial, professional and consumer use of masonry products	(i) Procedural and technological control using Best Available Technique (BAT	(i) Personal Protective Equipment (PPE): Butyl or neoprene rubber type gloves/gauntlets and respiratory protective equipment, as applicable for workers (see Sections 9.15 and 10.15 for details) (ii) Limit on product concentration, as applicable (see Sections 9.15 and 10.15 for details) (iii) Workers' training, as applicable (see Section 9.15 for details)	(i) Treatment of effluent in waste water treatment plant (WWTP) or standard municipal WWTP is applicable as a 'best practice'.

Exposure scenario	Description	General measures	Specific Human Health risk management measures	Specific Environment risk management measures
ES16	Formulation and processing of non-aqueous polymer preparations	This scenario is not quantified (see Section 9.16). The process categories relevant for this scenario are covered in other scenarios: PROCs 2, 5, 9, 8b, 14 by ES 3 and PROC 21 by ES 9. The Risk Management Measures are equivalent.		
ES17	Formulation and use of mould-making elastomers	This scenario is not quantified (see Section 9.16). The process categories relevant for this scenario are covered in other scenarios: PROCs 3, 5, 8a, 8b, 9 by ES 11; PROC 19 by ES 15.. The Risk Management Measures are equivalent.		
ES18	Laboratory reagent	Good Laboratory Practice (GLP)	(i) Local Exhaust ventilation (Fume cupboard) (ii) Personal Protective Equipment (PPE): Butyl or neoprene rubber gloves/ gauntlets (iii) Workers' training	N/A