Annex XV dossier

PROPOSAL FOR IDENTIFICATION OF A SUBSTANCE AS A CMR 1A OR 1B, PBT, vPvB OR A SUBSTANCE OF AN EQUIVALENT LEVEL OF CONCERN

Substance Name: Lead titanium zirconium oxide

EC Number: 235-727-4

CAS Number: 12626-81-2

Submitted by: European Chemicals Agency at the request of the European Commission

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PROPOSAL FOR IDENTIFICATION OF A SUBSTANCE AS A CMR 1A OR 1B, PBT, VPVB OR A SUBSTANCE OF AN EQUIVALENT LEVEL OF CONCERN

Substance Name: Lead titanium zirconium oxide

EC Number: 235-727-4

CAS Number: 12626-81-2

The substance is proposed to be identified as substance meeting the criteria of Article 57 (c) of Regulation (EC) 1907/2006 (REACH) owing to its classification as toxic for reproduction category 1 A^1 .

Summary of how the substance meets the criteria set out in Article 57 (c) of REACH (Repr. 1A).

Lead titanium zirconium oxide is covered by Index number 082-001-00-6 in Regulation (EC) No 1272/2008 and classified in Annex VI, part 3, Table 3.1 (list of harmonised classification and labelling of hazardous substances) as toxic for reproduction, Repr. 1A (H360: "May damage the unborn child"). The corresponding classification in Annex VI, part 3, Table 3.2 (the list of harmonised and classification and labelling of hazardous substances from Annex I to Directive 67/548/EEC) of Regulation (EC) No 1272/2008 is toxic for reproduction, Repr. Cat. 1; R61 ("May cause harm to the unborn child").

Therefore, this classification of the substance in Regulation (EC) No 1272/2008 shows that it meets the criteria for classification as toxic for reproduction in accordance with Article 57 (c) of REACH.

Registration dossiers submitted for the substance? Yes

¹ Classification in accordance with Regulation (EC) No 1272/2008 Annex VI, part 3, Table 3.1 List of harmonised classification and labelling of hazardous substances.

PART I

JUSTIFICATION

1 Identity of the substance and physical and chemical properties

1.1 Name and other identifiers of the substance

Table 1: Substance identity

EC number:	235-727-4				
EC name:	Lead titanium zirconium oxide				
CAS number (in the EC inventory):	12626-81-2				
CAS number:	12626-81-2				
Deleted CAS numbers:	37189-44-9, 37221-92-4, 37382-38-0, 39387-81-0, 56730-15-5, 69670-72-0, 106804-23-3, 118217-11-1, 135699-34-2, 143928-79-4, 188417-76-7, 200444-20-8, 1245817-44-0				
CAS name:	Lead titanium zirconium oxide (Pb(Ti,Zr)O3)				
IUPAC name:	Lead titanium zirconium trioxide				
Index number in Annex VI of the CLP Regulation	082-001-00-6				
Molecular formula:	Unspecific				
Molecular weight range:	Unspecific				
Synonyms:	Lead titanate zirconate; Lead titanate zirconate (Pb(Ti,Zr)O3); Lead titanate zirconate (PbTi0-1Zr0-1O3); Lead titanium zirconium oxide (PbTi0-1Zr0-1O3); Lead zirconate titanate				

Structural formula:

(Pb_x Ti_y Zr_z) O₃

1.2 **Composition of the substance**

Name: Lead titanium zirconium oxide

Description: ---

Degree of purity: 80 - 98 %

Table 2: Constituents

Constituents	Typical concentration	Concentration range	Remarks
Lead titanium zirconium oxide		80 - 98 %	According to the information available
235-727-4			in the registration dossiers

2 Harmonised classification and labelling

Lead titanium zirconium oxide is covered by Index number 082-001-00-6 in Annex VI, part 3 of Regulation (EC) No 1272/2008 as follows:

Table 3: Classification according to part 3 of Annex VI,	Table 3.1 ((list of harmonised classification	n and labelling of
hazardous substances) of Regulation (EC) No 1272/2008		

	International	EC No C	CAS No	Classification		Labelling			Spec.	Notes
	Chemical Identification			Hazard Class and Category Code(s)	Hazard statement code(s)	Pictogram , Signal Word Code(s	Hazard statement code(s)	Suppl. Hazard statement code(s)	Conc. Limits, M-factors	
082-001-00-6	Lead compounds with	-	-	Repr. 1A	H360Df	GHS08	H360Df		STOT RE 2;	A1
	the exception of those specified			Acute Tox. 4*	H332	GHS07	H332		H373: C ≥	
	elsewhere in this			Acute Tox. 4*	H302	GHS09	H302		0,5 %	
	Annex		STOT RE 2*	H373**	Dgr	H373**				
				Aquatic Acute 1	H400		H410			
				Aquatic	H410					
				Chronic 1						

Table 4: Classification according to part 3 of Annex VI, Table 3.2 (list of harmonized classification and labelling of hazardous substances from Annex I of Council Directive 67/548/EEC) of Regulation (EC) No 1272/2008

Index No	International Chemical Identification	EC No	CAS No	Classification	Labelling	Concentration Limits	Notes	
082-001-00-6	082-001-00-6 Lead compounds with the - exception of those specified elsewhere in this Annex	exception of those specified	-	Repr. Cat. 1; R61	T; N	Xn; R20/22: C ≥ 1 %	AE 1	
						Repr. Cat. 3; R62	R: 61-20/22-33-62-50/53	R33: C ≥ 0,5 %
				Xn; R20/22	S: 53-45-60-61			
				R33				
				N; R50-53				

3 Environmental fate properties

Not relevant for the identification of the substance as SVHC in accordance with Article 57c.

4 Human health hazard assessment

See section 2 on harmonised classification and labelling.

5 Environmental hazard assessment

Not relevant for the identification of the substance as SVHC in accordance with Article 57c.

6 **Conclusions on the SVHC Properties**

6.1 CMR assessment

Lead titanium zirconium oxide is covered by Index number 082-001-00-6 in Regulation (EC) No 1272/2008 and classified in Annex VI, part 3, Table 3.1 (list of harmonised classification and labelling of hazardous substances) as toxic for reproduction, Repr. 1A (H360: "May damage the unborn child"). The corresponding classification in Annex VI, part 3, Table 3.2 (the list of harmonised and classification and labelling of hazardous substances from Annex I to Directive 67/548/EEC) of Regulation (EC) No 1272/2008 is toxic for reproduction, Repr. Cat. 1; R61 ("May cause harm to the unborn child").

Therefore, this classification of the substance in Regulation (EC) No 1272/2008 shows that it meets the criteria for classification as toxic for reproduction in accordance with Article 57 (c) of REACH.

PART II

INFORMATION ON USE, EXPOSURE, ALTERNATIVES AND RISKS

The available use and exposure information is provided in the registration dossiers (authorities with access rights only) or on ECHA's dissemination website²:

http://echa.europa.eu/information-on-chemicals

ECHA has not carried out further analysis of this information.

 $^{^2}$ Information published by ECHA on the substance can be searched at this site (field "Search for Chemicals" at upper right) by EC number, CAS number or substance name.