

AGREEMENT OF THE MEMBER STATE COMMITTEE

ON THE IDENTIFICATION OF CADMIUM CHLORIDE

AS A SUBSTANCE OF VERY HIGH CONCERN

According to Articles 57 and 59 of Regulation (EC) 1907/2006¹

Adopted on 30 May 2014

This agreement concerns

Substance name: cadmium chloride

EC number: 233-296-7

CAS number: 10108-64-2

Molecular formula: CdCl₂

Cl—Cd Structural formula:

CI

¹Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

Sweden presented a proposal in accordance with Article 59(3) and Annex XV of the REACH Regulation (26 February 2014, submission number DN005142-56) on identification of *Cadmium chloride* as a substance of very high concern due to its carcinogenic, mutagenic, toxic for reproduction properties and because of its properties causing adverse effects on kidney and bone tissues (serious effects to human health that give rise to an equivalent level of concern to those of CMRs and PBTs/vPvBs).

The Annex XV dossier was circulated to Member States on 3 March 2014 and the Annex XV report was made available to interested parties on the ECHA website on the same day according to Articles 59(3) and 59(4).

Comments were received from both Member States and interested parties on the proposal.

The dossier was referred to the Member State Committee on 20 May 2014 and agreed in the written procedure of the Member State Committee with closing date of 30 May 2014.

Agreement of the Member State Committee in accordance with Article 59(8):

Cadmium chloride is identified as a substance of very high concern because:

- a) it meets the criteria of Article 57 (a) of Regulation (EC) 1907/2006 (REACH) owing to its classification as carcinogen $1B^2$ (this classification corresponds to classification as carcinogen category 2^3), and
- b) it meets the criteria of Article 57 (b) of Regulation (EC) 1907/2006 (REACH) owing to its classification as mutagen $1B^2$ (this classification corresponds to classification as mutagen category 2^3), and
- c) it meets the criteria of Article 57 (c) of Regulation (EC) 1907/2006 (REACH) owing to its classification as toxic for reproduction $1B^2$ (this classification corresponds to classification as toxic for reproduction category 2^3), and

² 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 as amended and adapted to technical and scientific progress by Commission Regulation (EC) No 790/2009, OJ No L 235, p. 1, 5.9.2009.

³ Classification in accordance with Regulation (EC) No 1272/2008, Annex VI, part 3, Table 3.2 List of harmonised classification and labelling of hazardous substances (from Annex I to Council Directive 67/548/EEC), as amended and adapted to technical and scientific progress by Commission Regulation (EC) No 790/2009, OJ No L 235, p. 1, 5.9.2009

d) in accordance with Article 57 (f) of REACH it is a substance which causes adverse effects on kidney and bone tissues after repeated exposure, for which there is scientific evidence of probable serious effects to human health which give rise to an equivalent level of concern to those for other substances listed in paragraphs (a) to (e) of Article 57 of REACH.

UNDERLYING ARGUMENTATION

FOR IDENTIFICATION OF SUBSTANCE OF VERY HIGH CONCERN

Carcinogenicity:

Carcinogen 1B

Cadmium chloride is listed as Index number 048-008-00-3 in Regulation (EC) No $1272/2008^4$ and classified in Annex VI, part 3, Table 3.1 (list of harmonised classification and labelling of hazardous substances) as carcinogenic, Carc. 1B (H350: May cause cancer). The corresponding classification in Annex VI, part 3, Table 3.2 (list of harmonized classification and labelling of hazardous substances from Annex I to Council Directive 67/548/EEC) of Regulation (EC) No 1272/2008 is carcinogenic, Carc. Cat. 2, R45 (May cause cancer).

Therefore, this classification of cadmium chloride in Regulation (EC) No 1272/2008 shows that the substance meets the criteria for classification as carcinogenic in accordance with Article 57(a) of REACH.

Mutagenicity:

Mutagen 1B

Cadmium chloride is listed as Index number 048-008-00-3 in Regulation (EC) No $1272/2008^4$ and classified in Annex VI, part 3, Table 3.1 (list of harmonised classification and labelling of hazardous substances) as mutagenic, Muta. 1B (H340: May cause genetic defects). The corresponding classification in Annex VI, part 3, Table 3.2 (list of harmonized classification and labelling of hazardous substances from Annex I to Council Directive 67/548/EEC) of Regulation (EC) No 1272/2008 is mutagenic, Muta. Cat. 2, R46 (May cause heritable genetic damage).

Therefore, this classification of cadmium chloride in Regulation (EC) No 1272/2008 shows that the substance meets the criteria for classification as mutagenic in accordance with Article 57(b) of REACH.

Toxicity for reproduction:

Toxic for reproduction 1B

Cadmium chloride is listed as Index number 048-008-00-3 in Regulation (EC) No $1272/2008^4$ and classified in Annex VI, part 3, Table 3.1 (list of harmonised classification and labelling of hazardous substances) as toxic for reproduction,

⁴ Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Repr. 1B (H360FD: May damage fertility; May damage the unborn child). The corresponding classification in Annex VI, part 3, Table 3.2 (list of harmonised classification and labelling of hazardous substances from Annex I to Council Directive 67/548/EEC) of Regulation (EC) No 1272/2008 is toxic for reproduction, Repr. Cat. 2, R60-61 (May impair fertility. May cause harm to the unborn child.).

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

Equivalent level of concern:

Properties causing adverse effects on kidney and bone tissues

Cadmium chloride has the ability to cause a large number of toxic effects as is evident from the harmonised classification. It is thus clear that cadmium chloride may cause many different serious health effects in addition to the ability to cause cancer, induce mutations and cause toxic effects on reproductive organs. Adverse effects on multiple organs after repeated exposure to cadmium, in particular on *kidney* and *bone*, motivated the classification as STOT RE Category 1⁵, and it is in particular effects on kidney and bone that justify the equivalent level of concern.

Reference:

Support Document *Cadmium chloride* (Member State Committee, 30 May 2014)

⁵ 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 as amended and adapted to technical and scientific progress by Commission Regulation (EC) No 790/2009, OJ No L 235, p. 1, 5.9.2009.