

**AGREEMENT OF THE MEMBER STATE COMMITTEE**

**ON THE IDENTIFICATION OF**

**ACIDS GENERATED FROM CHROMIUM TRIOXIDE AND THEIR**

**OLIGOMERS**

**AS A SUBSTANCE OF VERY HIGH CONCERN**

**According to Articles 57 and 59 of  
Regulation (EC) 1907/2006<sup>1</sup>**

**Adopted on 2 December 2010**

**This agreement concerns**

**Substance name: Acids generated from chromium trioxide and their  
oligomers ( chromic acid, dichromic acid and oligomers of  
chromic acid and dichromic acid)**

**Names of the acids and their oligomers:**

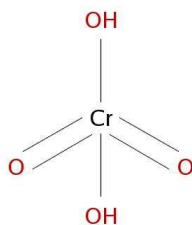
**Substance name:** Chromic acid (H<sub>2</sub>CrO<sub>4</sub>)  
**EC number:** 231-801-5  
**CAS number:** 7738-94-5

**Molecular formula:** CrH<sub>2</sub>O<sub>4</sub>

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<sup>1</sup>Regulation (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

**Structural formula:**



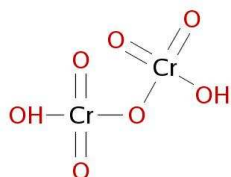
**Substance name:** Dichromic acid ( $\text{H}_2\text{Cr}_2\text{O}_7$ )

**EC number:** 236-881-5

**CAS number:** 13530-68-2

**Molecular formula:**  $\text{Cr}_2\text{H}_2\text{O}_7$

**Structural formula:**



**Substance name:** Oligomers of chromic acid and dichromic acid

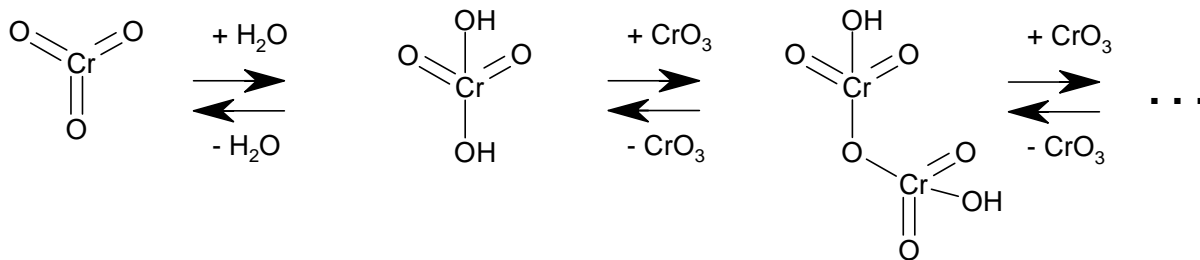
**EC number:** ---

**CAS number:** ---

**Molecular formula:** ---

**Structural formula:** ---

Equilibrium of Chromium trioxide and its corresponding acids in water



Germany presented a proposal in accordance with Article 59(3) and Annex XV of the REACH Regulation (14 August 2010, submission number CH007799-36) on identification of the *acids generated from chromium trioxide and their oligomers* as a substance of very high concern because of its carcinogenic properties.

Pursuant to Articles 59(3) and 59(4) of REACH the Annex XV dossier was circulated to Member States on 30 August 2010 and the Annex XV report was made available to interested parties on the ECHA website on the same day.

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

The dossier was referred to the Member State Committee on 15 November 2010 and was discussed in the meeting of the Member State Committee on 1 – 3 December 2010.

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

***Acids generated from chromium trioxide and their oligomers (chromic acid, dichromic acid and oligomers of chromic acid and dichromic acid)* are identified as a substance meeting the criteria of Article 57 (a) of Regulation (EC) 1907/2006 (REACH) owing to its classification as carcinogen category 1B<sup>2</sup>. This classification corresponds to classification as carcinogen category 2<sup>3</sup>.**

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<sup>2</sup> 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 .

<sup>3</sup> 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).

**UNDERLYING ARGUMENTATION  
FOR IDENTIFICATION OF SUBSTANCE OF VERY HIGH CONCERN**

**Carcinogenicity:**

Pursuant to Regulation (EC) No 1272/2008<sup>4</sup>, as of 1 December 2010, acids generated from chromium trioxide and their oligomers are chromium VI compounds and therefore are covered by index number 024-017-00-8 in Annex VI, part 3, Table 3.1 (the list of harmonised classification and labelling of hazardous substances) of Regulation (EC) No 1272/2008 as carcinogen category 1B (H350i: “May cause cancer by inhalation”). Its corresponding classification in Annex VI, part 3, Table 3.2 (the list of harmonised classification and labelling of hazardous substances from Annex I to Directive 67/548/EEC) of Regulation (EC) No 1272/2008 is carcinogen category 2 (R49: “May cause cancer by inhalation”).

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

**Reference:**

1. Support Document *acids generated from chromium trioxide and their oligomers* (Member State Committee, 2 December 2010)

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<sup>4</sup> Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation 1907/2006, OJ No L353, p.1, 31.12.2008