

20 December 2011

Background document for acids generated from chromium trioxide and their oligomers

Document developed in the context of ECHA's third Recommendation for the inclusion of substances in Annex XIV

1. Identity of the substance

Chemical name: Acids generated from chromium trioxide and their oligomers

Names of the acids and their oligomers

Chromic acid EC Numbers: 231-801-5
 CAS Number: 7738-94-5
 IUPAC Name: Dihydroxy(dioxo)chromium

Dichromic acid EC Numbers: 236-881-5
 CAS Number: 13530-68-2
 IUPAC Name: hydroxy-(hydroxy(dioxo)chromio)oxy-dioxochromium

Oligomers of chromic acid and dichromic acid
 EC Numbers: not yet assigned
 CAS Number: not yet assigned

2. Background information

2.1. Intrinsic properties

Acids generated from chromium trioxide and their oligomers was identified as a Substance of Very High Concern (SVHC) according to Article 57(a) as it is classified according to Annex VI, part 3, Table 3.1 (the list of harmonised classification and labelling of hazardous substances) of Regulation (EC) No 1272/2008 as a carcinogen category 1B¹(H350i: "May cause cancer by inhalation") and was therefore included in the candidate list for authorisation on 15 December 2010, following ECHA's decision ED/95/2010.

¹ This corresponds to a classification as carcinogen category 2, (R49 : may cause cancer by inhalation) 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) N° 1272/2008

3. Information on volumes, uses, releases of and alternatives

Chromic acid, dichromic acid and oligomers of chromic and dichromic acid are spontaneously generated products of the reaction of chromium trioxide with water.

To date, no registration has been submitted for this group of compounds.

For information on volumes, uses, releases and alternatives please refer to the background document for chromium trioxide.