

REACH SVHC CANDIDATE LIST

ECHA released the first candidate list of 15 SVHCs for authorization in Aug 2008, the second SVHC candidate list in Jan 2010, the third candidate list in June 2010, the fourth candidate list in December 2010, the fifth candidate list in June 2011, the sixth candidate list in December 2011 and the seventh candidate list in June 2012.

■ The Announcement of the seventh 13 SVHCs List

The list of these 13 SVHC and possible applications are shown below:

Substance Name	CAS NO.	EC NO.	Potential Uses
1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	203-977-3	Mainly used as a solvent or as a processing aid in the manufacture and formulation of industrial chemicals. Minor use in brake fluids and repair of motor vehicles.
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	Mainly used as a solvent or as a processing aid in the manufacture and formulation of industrial chemicals, including use as an electrolyte solvent in lithium batteries.
Diboron trioxide	1303-86-2	215-125-8	Used in a multitude of applications, e.g., in glass and glass fibres, frits, ceramics, flame retardants, catalysts, industrial fluids, metallurgy, adhesives, inks/paints, film developers solutions, detergents and cleaners, biocides and insecticides.
Formamide	75-12-7	200-842-0	Mainly used as an intermediate. Minor uses as solvent, as reagent chemical (in the pharmaceutical industry) and as laboratory chemical. The substance seems further to be used in the agrochemical industry and as a plasticiser.
Lead (II) bis (methanesulfonate)	17570-76-2	401-750-5	Mainly used in plating (both electrolytic and electroless) processes for electronic components (such as printed circuit boards).
TGIC(1,3,5-tris (oxiranylmethyl)-1,3,5-triazine-2,4,6 (1H,3H,5H)-trione)	2451-62-9	219-514-3	Mainly used as a hardener in resins and coatings; also used in inks for the printed circuit board industry, electrical insulation material, resin moulding systems, laminated sheeting, silk screen printing coatings, tools, adhesives, lining materials and stabilisers for plastics.
β -TGIC(1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	423-400-0	Mainly used as a hardener in resins and coatings; also used in inks for the printed circuit board industry, electrical insulation material, resin moulding systems, laminated sheeting, silk screen printing coatings, tools, adhesives, lining materials and stabilisers for plastics.

Substance Name	CAS NO.	EC NO.	Potential Uses
4,4'-bis(dimethylamino) benzophenone(Michler's ketone)	90-94-8	202-027-5	Intermediate in the manufacture of triphenylmethane dyes and other substances. Further potential uses include as additive (photosensitiser) in dyes and pigments, in dry film products, as a process chemical in the production of electronic circuit boards, in research and development applications.
N,N,N',N'-tetramethyl-4,4'-methyle nedianiline (Michler's base)	101-61-1	202-959-2	Intermediate in the manufacture of dyes and other substances. Used also as chemical reagent in research and development.
4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3) ¹	548-62-9	208-953-6	Used mainly for paper colouring and inks supplied in printer cartridges and ball pens. Further uses include staining of dried plants, marker for increasing the visibility of liquids, staining in microbial and clinical laboratories.
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) ¹	2580-56-5	219-943-6	Used in the production of inks, cleaners, and coatings, as well as for dyeing of paper, packaging, textiles, plastic products, and other types of articles. It is also used in diagnostic and analytical applications.
α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene -1-methanol (C.I. Solvent Blue 4) ¹	6786-83-0	229-851-8	Mainly used in the production of printing and writing inks, for dyeing of paper and in mixtures such as windscreen washing agents.
4,4'-bis(dimethylamino)-4''-(methyl amino)trityl alcohol ¹	561-41-1	209-218-2	Used in the production of writing inks and potentially in the production of other inks, as well as for dyeing of a variety of materials.

1. The last four SVHCs identification is based on the presence of the carcinogenic constituents Michler's ketone or Michler's base above the concentration limit for classifying the substances as carcinogenic (≥ 0.1 % weight/weight).

- According to REACH regulation, all EU manufacturers or importers of the 84 SVHCs should fulfill either one of the following regulatory obligations:
 1. should supply Safety Data Sheet (SDS/MSDS) to their downstream users when the SVHC concerned is sold as a substance on itself; or
 2. should supply SDS/MSDS to their downstream users when the SVHC concerned is produced or imported at or above 0.1% w/w in a mixture or preparation; or
 3. should supply the product recipient or in request of the product consumers, with available sufficient information, free of charge, which covers at least the name of the substance, within 45 days on receiving the request, if the SVHC is above 0.1% w/w threshold in an article.



- All EU manufacturers or importers must submit a notification for SVHCs placed on EU market before June 1, 2011 to European Chemicals Agency (ECHA), if the substance is produced or imported above the quantity of 1 tonne per year and its concentration percentage in the article above the threshold of 0.1% w/w.

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