

REACH (欧盟化学品注册、评估、许可和限制政策)

《欧盟化学品的注册、评估、授权、限制政策》，Regulation concerning the **R**egistration, **E**valuation, **A**uthorisation and **R**estriction of **C**hemicals (**REACH**), 是一项由欧盟实施, 致力保护人类健康及环境免受危害性化学物质侵害的法规。**REACH** 针对化学物质制定了一整套政策, 要求化学物质的可追溯性及商品(化学物质、配置品或者物品)所含有化学物质的鉴定。

REACH 如何监控高度关注物质 SVHC

针对物品:

1. 45天义务规则 (自 2008 年 10 月 28 日起生效)
--又称自主通报

如果物品中含有超过 0.1% 浓度的高度关注物质, 要求: 其生产商或进口商在 45 天内对消费者针对有关产品物质安全信息的询问作出回复。

2. 通报 (自 2011 年 6 月 1 日起生效)
--又称官方通报

如果物品中含有超过 0.1% 浓度的高度关注物质, 且投放于欧盟市场的该物质的量 > 1 吨/年/公司, 要求: 其生产商或进口商向欧洲化学品管理局通报。

针对物质:

1. 安全数据表(**Safety Data Sheet, SDS**) (自 2008 年 10 月 28 日起生效)

如果配制品中至少含有一种高度关注物质, 且单个物质的质量百分浓度在非气体配制品中不低于 0.1%, 在气体配制品中不低于 0.2%, 要求: 其生产商或进口商向消费者提供这种物质的安全数据表。

2. 授权 (自 2009 年 6 月 1 日开始)

欧盟的生产商、加工商和进口商需要为高度关注物质向欧洲化学品管理局(ECHA) 申请授权, 否则这些物质可能被禁用。



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REACH 四要素 -- 注册, 评估, 授权, 限制

注册 Registration

在欧盟, 对于每家公司每年的量超过 1 吨的单一物质或是配置品中的每个物质, 或是物品中的有意释放的物质, 需要向欧洲化学品管理局(ECHA)申请注册。(一种物质, 一种注册 (OSOR))

评估 Evaluation

欧洲化学品管理局(ECHA)和成员国评估各种化学物质的风险, 为授权(Authorisation)和限制(Restriction)提供基础。

授权 Authorisation

欧盟的生产商、加工商和进口商需要为高度关注物质(SVHC)向欧洲化学品管理局(ECHA) 申请授权。(高度关注物质: 截止到2011年6月20日, 欧洲化学品管理局(ECHA)已累计公布53种SVHC*)

限制 Restriction of Chemicals

REACH 根据现有的指令和体系对化学物质实施限制, 一个被限制的物质不可以被制造、投放或使用于欧盟市场, 除非它符合了限制的要求。

欧陆集团 (Eurofins Group) 的服务

测试- 高度关注物质 SVHC 测试

培训- REACH 概况, 如何应对 REACH

咨询- 供应链管理, 物料清单(BOM)及物质清单(BOS)

*附件- 已公布的 53 种高度关注物质 SVHC 清单 (截止到 2011 年 6 月 20 日)

化学品名称	CAS 编号	化学品名称	CAS 编号	化学品名称	CAS 编号
蒽	120-12-7	煤焦油沥青(高温)	65996-93-2	三氯乙烯	*79-1-6
二氨基二苯甲烷	101-77-9	硅酸铝耐火陶瓷纤维	-	2-乙氧基乙醇	110-80-5
DBP	84-74-2	氧化锆硅酸铝耐火陶瓷纤维	-	2-甲氧基乙醇	109-86-4
BBP	85-68-7	2,4-二硝基甲苯	121-14-2	铬酸	7738-94-5
二氯化钴	7646-79-9	邻苯二甲酸二异丁酯	84-69-5	重铬酸	13530-68-2
三氧化二砷	1327-53-3	铬酸铅	7758-97-6	铬酸及重铬酸低聚物*	
五氧化二砷	1303-28-2	钼铬红(C.I.颜料红104)	12656-85-8	三氧化铬*	1333-82-0
二水合重铬酸钠	7789-12-0	铅铬黄(C.I.颜料黄34)	1344-37-2	碳酸钴*	513-79-1
二甲苯麝香	81-15-2	三(2-氯乙基)磷酸酯	115-96-8	乙酸钴*	71-48-7
DEHP	117-81-7	丙烯酰胺	*79-6-1	硝酸钴*	10141-05-6
六溴环十二烷	25637-99-4	重铬酸铵	2151163	硫酸钴*	10124-43-3
短链氯化石蜡	85535-84-8	硼酸	10043-35-3	乙二醇醚醋酸酯	111-15-9
氧化三丁基锡	56-35-9		11113-50-1	铬酸锶	7789-06-2
砷酸氢铅	7784-40-9	无水四硼酸钠	1303-96-4	1,2-苯二酸-二(C7-11支链和直链)烷基(醇)酯	68515-42-4
二乙磷酸酯	15606-95-8		1330-43-4		
蒽油	90640-80-5		12179-04-3	联胺	302-01-2 / 7803-57-8
蒽油、蒽糊、轻油	91995-17-4	铬酸钾	7789-00-6	1-甲基-2-吡咯烷酮	872-50-4
蒽油、蒽糊、蒽馏分	91995-15-2	重铬酸钾	7778-50-9	1,2,3-三氯丙烷	96-18-4
蒽油、含蒽少量	90640-82-7	铬酸钠	2146108	1,2-苯二酸-二(C6-8支链)烷基酯(富C7)	71888-89-6
蒽油、蒽糊	90640-81-6	水合硼酸钠	12267-73-1		

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REACH (Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

Registration, Evaluation, Authorisation and Restriction of Chemicals ("REACH") is a regulation (EC1907/2006) that has been implemented by the European Union (EU) to better protect human health and the environment from hazardous chemicals. REACH establishes a registration system for chemical substances that requires the traceability of chemicals and identification of chemical substances within goods (Articles or Preparations).

HOW IS SVHC REGULATED BY REACH

Article

1. The 45-Day Obligation (from Oct 28th, 2008), called Self-Notification

If articles contain SVHC (Substances of Very High Concern) above 0.1% (w/w), Require: Producer or importer shall provide information to customers on their request **within 45 days** of the receipt of the request and the information must ensure safe use of the article and as a minimum, the name of the substance.

2. Official Notification (from Jun 1st, 2011)

If articles contain SVHC above 0.1% (w/w) **and** its quantities in the produced/imported articles are above 1 tonne in total per year per company, Require: Producer or importer shall notify ECHA for articles containing SVHC.

Substance

1. Safety Data Sheet, SDS (from Oct 28th, 2008)

A preparation not classified as dangerous according to Directive 1999/45/EC, but if it contains at least one SVHC and its individual concentration is at least 0.1% (w/w) for non gaseous preparations and at least 0.2% by volume for gaseous preparations, Require: Suppliers have to provide the recipients, at their request, with a safety data sheet.

2. Authorization (from Jun 1st, 2009)

Once the substances is listed as SVHC, manufacturers, importers and/or downstream users of the substance needs to apply ECHA for Authorization. Otherwise, these SVHC are prohibited to be used.



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FOUR ELEMENTS OF REACH

Registration

For substance in its own or in preparation, or substance in articles is intended to be released under normal or foreseeable conditions of use, if Annual import to EU \geq 1 tonne, Producer or importer shall apply ECHA for registration for this substance. (One Substance, One Registration (OSOR))

Evaluation

Carried out by ECHA & member states based on risk - provides basis for authorisation or restriction.

Authorisation

Manufacturers, importers and/or user of substances classified as SVHC need Authorization based on SVHC list issued by ECHA (By Jun of 2011, ECHA has issued 53 SVHC totally, details please refer to annex* below).

Restriction of Chemicals

REACH adopts restriction approach based on existing directives & systems. A restricted substance shall not be manufactured, placed on the market or used unless it complies with the conditions of that restriction.

REACH SOLUTIONS PROVIDED BY EUROFINS

Testing- Test for SVHC

Training- Regulation REACH introduction, How to do with REACH

Consulting- Supplier Chain Management, Introduction of BOM (Bill of Materials) and BOS (Bill of Substances)

*Annex- SVHC list issued by ECHA until Jun. 20, 2011

SVHC	CAS No.	SVHC	CAS No.	SVHC	CAS No.
Anthracene	120-12-7	Coal tar pitch, high temperature	65996-93-2	Trichloroethylene	*79-1-6
4,4'-Diaminodiphenylmethane (MDA)	101-77-9	Aluminosilicate, Refractory Ceramic Fibres	-	2-Ethoxyethanol	110-80-5
Dibutyl phthalate (DBP)	84-74-2	Zirconia Aluminosilicate, Refractory Ceramic Fibres	-	2-Methoxyethanol	109-86-4
Benzyl butyl phthalate (BBP)	85-68-7	2,4-Dinitrotoluene	121-14-2	Chromic acid	7738-94-5
Cobalt dichloride	7646-79-9	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	84-69-5	Dichromic acid	13530-68-2
Diarsenic trioxide	1327-53-3	Lead chromate	7758-97-6	Oligomers of chromic acid and dichromic acid*	
Diarsenic pentaoxide	1303-28-2	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8	Chromium trioxide*	1333-82-0
Sodium dichromate	7789-12-0	Diisobutyl phthalate	1344-37-2	Cobalt(II) carbonate*	513-79-1
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	Tris (2-chloroethyl) phosphate	115-96-8	Cobalt(II) diacetate*	71-48-7
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	Acrylamide	*79-6-1	Cobalt(II) dinitrate*	10141-05-6
Hexabromocyclododecane (HBCDD)	25637-99-4	Ammonium dichromate	2151163	Cobalt(II) sulphate*	10124-43-3
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	Boric acid	10043-35-3	2-Ethoxyethyl acetate	111-15-9
Bis (tributyltin) oxide (TBTO)	56-35-9		11113-50-1	Strontium chromate	7789-06-2
Lead hydrogen arsenate	7784-40-9		1303-96-4	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4
Triethyl arsenate	15606-95-8	Disodium tetraborate, anhydrous	1330-43-4		
Anthracene oil	90640-80-5		12179-04-3	Hydrazine	302-01-2 / 7803-57-8
Anthracene oil, anthracene paste, distn. Lights	91995-17-4	Potassium chromate	7789-00-6	1-Methyl-2-pyrrolidone	872-50-4
Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	Potassium dichromate	7778-50-9	1,2,3-Trichloropropane	96-18-4
Anthracene oil, anthracene-low	90640-82-7	Sodium chromate	2146108	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6
Anthracene oil, anthracene paste	90640-81-6	Tetraboron disodium heptaoxide, hydrate	12267-73-1		

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