

REACH SVHC 欧盟化学品管理条例 高度关注物质

产品名称	REACH SVHC 欧盟化学品管理条例 高度关注物质
公司名称	深圳市实测通技术服务有限公司
价格	.00/件
规格参数	测试周期:5-7天 寄样地址:深圳宝安 价格费用:电话详谈
公司地址	深圳市罗湖区翠竹街道翠宁社区太宁路145号二 单元705
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产品详情

Test item 测试名称:

REACH SVHC (Substances of Very High Concern) 欧盟化学品管理条例 高度关注物质

Refer products 涉及产品:

除某些特定工业品之外,基本覆盖所有出口产品

Limit 限量:

高关物质含量不能超过成品重量的0.1%

Lead time 测试周期: 常规 regular service 9 working days

Sample size 送样规格: 2个成品

Others 其他信息:

1. 每个实验室的测试方法不尽相同,所以对测试部件的合并方式也不完全一样,报价分组也会有出入
2. 报告样本
3. 目前高关物质更新到205项

序号No.高度关注物质名称Substance of SVHC国际化学编码CAS NO.欧盟化学品注册号EC NO.常见应用Possible Applications第一批15项高度关注物质清单The First 15 SVHCs List 1

4,4'-二氨基二苯甲烷4,4'-Diaminodiphenylmethane (MDA) 101-77-9
202-974-4偶氮染料, 橡胶的环氧树脂固化剂Curing agent for epoxy resin in PCB, preparation of PU, azo dyes in garments. 2邻苯二甲酸甲苯基丁酯 (BBP) Benzyl butyl phthalate (BBP) 85-68-7
201-622-7乙烯基泡沫, 耐火砖和合成皮革的增塑剂Plasticizer for resin, PVC, acrylics.
3邻苯二甲酸二(2-乙基己基)酯(DEHP) Bis(2-ethylhexyl) phthalate (DEHP) 117-81-7 204-211-0 PVC增塑剂, 液压液体和电容器里的绝缘体Plasticizer for resin, PVC, blister
4邻苯二甲酸二丁基酯(DBP) Dibutyl phthalate (DBP) 84-74-2 201-557-4增塑剂, 粘合剂和印刷油墨的添加剂Plasticizer, in adhesives and paper coatings; insect repellent for textiles. 5蒽 Anthracene 120-12-7 204-371-1染料中间体Source of dyestuff 6二甲苯麝香 (MX) 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) 81-15-2
201-329-4香水, 化妆品Cosmetics and soap perfumes.
7短链氯化石蜡 (C10-C13) (SCCP) Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) 85535-84-8
287-476-5金属加工过程中的润滑剂, 橡胶和皮革衣料, 胶水Leather coating, plasticizer in PVC and chlorinated rubber, flame retardant in plastic & textiles.
8二氯化钴 Cobalt Dichloride 7646-79-9 231-589-4干燥剂, 例如硅胶Moisture indicator in silica gel, absorbent.
9六溴环十二烷 (HBCDD) 及所有主要的非对映异构体(HBCDD)Hexabromocyclododecane (HBCDD) 25637-99-43194-55-6(134237-50-6,134237-51-7,134237-52-8) 247-148-4;221-695-9阻燃剂Flame retardant used in HIPS and textiles. 10**** Sodium dichromate 10588-01-9, 7789-12-0
234-190-3金属表面精整, 皮革制作, 纺织品染色, 木材防腐剂Chrome-tanning of leather, corrosion inhibitor in paints, mordant in textile dyein.
11氧化双三丁基锡 Bis(tributyltin) oxide (TBTO) 56-35-9 200-268-0木材防腐剂Pesticizer, fungicide in paint. 12五氧化二砷 Diarsenic pentoxide 1303-28-2 215-116-9杀菌剂, 除草剂Insecticides, weed killer, wood preservatives, coloured glass, dyeing and printing.
13三氧化二砷 Diarsenic trioxide 1327-53-3 215-481-4除草剂, 杀虫剂Weed killers, timber preservatives, manufacture of special glass. 14三乙基砷酸酯 Triethyl arsenate 15606-95-8 427-700-2木材防腐剂Intermediates for semi-

conductor. 15 砷酸氢铅 Lead hydrogen arsenate 7784-40-9 232-064-2 杀虫剂 Insecticides.

Bitmap 第二批 13 项高度关注物质清单 (累计 28 项) The Second 13 SVHCs List (Total 28 Items) 1

2,4-二硝基甲苯 2,4-Dinitrotoluene 121-14-2

204-450-0 制造染料中间体, 炸药, 油漆, 涂料 2,4-dinitrotoluene is used in the production of toluene diisocyanate, which is used for the manufacture of flexible polyurethane foams. The substance is also used as gelatinizing-plasticizing agent 2 蒽油 Anthracene oil 90640-80-5

292-602-7 橡胶制品, 橡胶油, 轮胎 3 蒽油, 蒽糊, 轻油 Anthracene oil, anthracene paste, distn, lights 91995-17-4 295-278-5 The substances are mainly used in the manufacture of other substances such as anthracene and carbon black. They may also be used as reducing agents in blast furnaces, as components in bunker fuel, for impregnating, sealing and corrosion protection. 4 蒽油, 蒽糊, 蒽馏分 Anthracene oil, anthracene paste, anthracene fraction 91995-15-2 295-275-9 5 蒽油, 含蒽量少 Anthracene oil, anthracene-low 90640-82-7 292-604-8

6 蒽油, 蒽糊 Anthracene oil, anthracene paste 90640-81-6 292-603-2 7 邻苯二甲酸二异丁酯 (DIBP) Diisobutyl phthalate (DIBP) 84-69-5

201-553-2 树脂和橡胶的增塑剂, 广泛用于塑料、橡胶、油漆及润滑油, 乳化剂等工业中 Diisobutyl phthalate is used as plasticiser for nitrocellulose, cellulose ether, polyacrylate and polyacetate dispersions, and as a gelling aid in combination with other plasticisers, which are widely used for plastics, lacquers, adhesives, explosive material and nail polish. 8 铬酸铅 Lead

chromate 7758-97-6 231-846-0 可用作黄

色颜料、氧化剂和火柴成分, 油性合成树脂涂料印刷油墨、水彩和油彩的颜料, 色纸、橡胶和塑料制品的着色剂 Lead chromate is used for manufacturing pigments and dyes, and as a pigment or coating agent in industrial and maritime paint products or varnishes. Further potential uses may be associated with the formulation of detergents and bleaches, photosensitive materials, the manufacture of pyrotechnic powder or the embalming /restoring of art products. 9 钼铬红 (C.I. 颜料红 104) Lead chromate molybdate sulfate red (C.I. Pigment Red 104) 12656-85-8

235-759-9 用于涂料, 油墨和塑料制品的着色 Lead chromate molybdate sulphate red (C.I. Pigment Red 104) is used as a colouring, painting and coating agent in sectors such as the rubber, plastic and paints, coatings and varnishes industries. Applications comprise the production of agricultural equipment, vehicles and aircraft as well as road and airstrip painting. 10 铅铬黄 (C.I. 颜料黄 34) Lead sulfochromate yellow (C.I. Pigment Yellow 34) 1344-37-2

215-693-7 用于制造涂料、油墨、色浆。文教用品、塑料、塑粉、橡胶、油彩颜料等着色 Lead sulfochromate yellow (C.I. Pigment Yellow 34) is used as a colouring, painting and coating agent in sectors such as the rubber, plastic and paints, coatings and varnishes industries. Applications comprise the production of agricultural equipment, vehicles and aircraft as well as road and airstrip painting. The substance is further used for camouflage or ammunition marking in the defence area. 11 磷酸三 (2-氯乙基) 酯 Tris(2-chloroethyl)phosphate 115-96-8 204-118-5 阻燃剂、阻燃性增塑剂、金属萃取剂、润滑剂、汽油添加剂, 以及聚酰胺加工改性剂 Tris(2-chloroethyl)phosphate is mainly used as an additive plasticiser and viscosity regulator with flame-retarding properties for acrylic resins, polyurethane, polyvinyl chloride and other polymers. Other fields of application are adhesives, coatings, flame resistant paints and varnishes. The main industrial branches to use TCEP are the furniture, the textile and the building industry. 12 高温煤焦油沥青 Coal tar pitch, high temperature 65996-93-2

266-028-2 用于涂料、塑料、橡胶 Pitch, coal tar, high temp. is mainly used in the production of electrodes for Industrial applications. Smaller volumes are dedicated to specific uses such as heavy duty corrosion protection, special purpose paving, manufacture of other substances and the production of clay targets. 13 丙烯酰胺 Acrylamide 1979/6/1 201-173-7 絮凝剂, 胶凝剂, 土壤改良剂, 造纸助剂, 纤维改性与树脂加工剂 Acrylamide is almost

exclusively used for the synthesis of polyacrylamides, which are used in various applications, in particular in waste water treatment and paper processing. Minor uses of acrylamide comprise the preparation of polyacrylamide gels for research purposes and as a grouting agent in civil. 第三批 8 项高度关注物质清单 (累计 36 项) The Third 8 SVHCs List (Total 36 Items) 1 三氯乙烯 Trichloroethylene 1979/1/6

201-167-4 金属零部件的清洗与脱脂, 胶粘剂中的溶剂, 合成有机氯和氟化合物中间体 Trichloroethylene is mainly used as intermediate in the manufacture of chlorinated and fluorinated organic compounds. Other uses are for cleaning and degreasing of metal parts or as solvent in adhesives 2 硼酸 Boric acid 10043-35-3 11113-50-1 233-139-2234-343-4 大量应用在生物杀虫剂和防腐剂, 个人护理产品, 食品添加剂, 玻璃, 陶瓷, 橡胶。化肥, 阻燃剂, 油漆, 工业油, 制动液, 焊接产品, 电影显影剂等行业 Boric acid is widely used on account of its consistency-influencing, flame-retarding, antiseptic and preservative properties. It is a component of detergents

and cleaners, adhesives, toys, industrial fluids, brake fluids, glass, ceramics, flame retardants, paints, disinfectants, cosmetics, food additives, fertilisers, insecticides and other products. 3无水四硼酸钠Disodium tetraborate, anhydrous 1330-43-4 12179-04-3 1303-96-4 215-540-4大量应用在玻璃和玻璃纤维, 陶瓷, 清洁剂和个人护理产品, 工业油, 冶金, 粘合剂, 阻燃剂, 生物杀灭剂, 化肥等行业Disodium tetraborate and tetraboron disodium heptaoxide form the same compounds in aqueous solutions. Uses include a multitude of applications, e.g. in detergents and cleaners, in glass and glass fibres, ceramics, industrial fluids, metallurgy, adhesives, flame retardants, personal care products, biocides, fertilisers. 4七水合四硼酸钠Tetraboron disodium heptaoxide, hydrate 12267-73-1 235-541-3 5铬酸钠Sodium chromate 7775/11/3 231-889-5实验室, 生产其他的铬酸盐化合物Sodium chromate is mainly used as an intermediate in the manufacture of other chromium compounds as well as a laboratory analytical agent, but this use is limited. Other potential uses are mentioned in the literature but whether they occur in the EU is not clear 6铬酸钾Potassium chromate 7789-00-6 232-140-5金属表面处理和用于涂层, 生产化学试剂, 纺织品, 陶瓷染色剂, 皮革的鞣制与辅料, 色素和墨水, 烟花, 烟火Potassium chromate is used as a corrosion inhibitor for treatment and coating of metals, for manufacture of reagents, chemicals and textiles, as a colouring agent in ceramics, in the manufacture of pigments/inks and in the laboratory as analytical agent. 7****Ammonium dichromate 7789/9/5 232-143-1氧化剂, 皮革的鞣制, 纺织品, 金属表层处理, (阴极射线管) 屏幕感光Ammonium dichromate is mainly used as an oxidising agent. Other known uses are in the manufacture of photosensitive screens and as mordant in the manufacture of textiles. Minor uses seem to comprise metal treatment and laboratory analytical agent. 8****Potassium dichromate 7778-50-9 231-906-6铬金属制造, 金属零部件的清洗与脱脂, 玻璃器皿的清洗剂, 皮革的鞣制, 纺织品, 照相平版, 木材防腐处理, 冷却系统缓蚀剂Potassium dichromate is used for chrome metal manufacturing and as corrosion inhibitor for treatment and coating of metals. It is further used as textile mordant, as laboratory analytical agent, for cleaning of laboratory glassware, in the manufacture of other reagents and as oxidising agent in photolithography. 第四批8项高度关注物质清单 (累计44项) The Fourth 8 SVHCs List (Total 44 Items) 1硫酸钴(II) Cobalt(II) sulphate 10124-43-3 233-334-2用于陶瓷釉料和油漆催干剂, 生产含钴颜料和其他钴产品, 也用于表面处理(如电镀), 碱性电池, 还用于催化剂、防腐剂、脱色剂(如用于玻璃和陶瓷等)、还用于饲料添加剂、土壤肥料等Mainly used in the production of other chemicals. Further applications may include manufacture of catalysts and driers, surface treatments (such as electroplating), corrosion prevention, production of pigments, decolourising (in glass, pottery), batteries, animal food supplements, soil fertilizers, and others. 2硝酸钴(II) Cobalt(II) dinitrate 10141-05-6 233-402-1用于颜料、催化剂、陶瓷工业表面处理, 以及碱性电池Mainly used in the production of other chemicals and the manufacture of catalysts. Further applications may include surface treatment and batteries. 3碳酸钴(II) Cobalt(II) carbonate 513-79-1 208-169-4用于催化剂、饲料添加剂、玻璃料粘合剂Mainly used in the manufacture of catalysts. Minor uses may include feed additive, production of other chemicals, production of pigments, and adhesion (in ground coat frit). 4乙酸钴 Cobalt(II) diacetate 71-48-7 200-755-8主要用于催化剂、含钴颜料和其他钴产品、表面处理、合金、染料、橡胶粘合剂。饲料添加剂等Mainly used in the manufacture of catalysts. Minor uses may include production of other chemicals, surface treatment, alloys, production of pigments, dyes, rubber adhesion, and feed additive. 5乙二醇单甲醚2-Methoxyethanol 109-86-4 203-713-7主要用作化学中间体, 以及溶剂, 实验用化学药品, 并用于清漆稀释剂, 印染工业用作渗透剂和匀染剂, 染料工业用作添加剂, 纺织工业用于染色助剂Mainly used as solvent, intermediate and as an additive for fuel. Might also be used in textile finishing. 6乙二醇单乙醚 2-Ethoxyethanol 110-80-5 203-804-1主要用作生产乙酸酯的中间体, 以及溶剂, 试验用化学药品。并用作假漆、天然和合成树脂等的溶剂, 还可用于皮革着色剂、乳化液稳定剂、油漆稀释剂、脱漆剂和纺织纤维的染色剂等Mainly used as solvent and chemical intermediate. Might also be used in textile finishing. 7三氧化铬 Chromium trioxide 1333-82-0 215-607-8用于金属表面精整(如电镀)、制高纯金属铬, 还用作水溶性防腐剂、颜料、油漆、催化剂、洗涤剂生产以及氧化剂等Used for metal finishing and as a fixing agent in waterborne wood preservatives. 8铬酸, 重铬酸及其低聚铬酸 Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid 7738-94-5 13530-68-2 231-801-5 236-881-5铬酸溶于水产生这些酸类及其低聚物, 用途等同于铬酸These acids and their oligomers are generated when chromium trioxide is dissolved in water. Chromium trioxide is mainly used in the form of aqueous solutions. Consequently, the uses of these substances are the same as indicated for chromium trioxide. 第五批7项高度关注物质清单 (累计51项) The Fifth 7 SVHCs List (Total 51 Items)

1乙二醇YI醚醋酸酯2-ethoxyethyl acetate 111-15-9

203-839-2用于油漆、粘合剂、胶水、化妆品、皮革、木染料、半导体、摄影和光刻过程Solvent and intermediate, formulation of paints, lacquers and varnishes 2铬酸锶strontium chromate 7789/6/2

232-142-6用于油漆、清漆和油画颜料；金属表面抗磨剂或铝片涂层之中Inhibitor, pigments, paints, varnishes, oil-colors, sealants, formulations in aeronautic/aerospace sector, coil coating sector of steel and aluminum and vehicle coating sector. 3邻苯二甲酸二(C7-11支链与直链)烷基酯(DHNUP) 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters 68515-42-4

271-084-6聚氯乙烯(PVC)塑料增塑剂、电缆和粘合剂Adhesives and binding agents, paint, lacquers and varnishes, construction materials 4肼Hydrazine 7803-57-8;302-01-2

206-114-9用于金属涂层，在玻璃和塑料之上；用于塑料、橡胶、聚氨酯(PU)和染料之中Hydrazine derivatives in pharmaceuticals, agrochemicals, chemical blowing agents, paints, inks and organic dyes, reagents, monomer in polymerizations, corrosion inhibitor, reducing agent in the deposition metals and purification of chemical reagents, stabilizing agent, laboratory chemical reagent; Propellant for aerospace vehicles, fuel in military gas generators. 5 1-甲基-2-吡咯烷酮1-methyl-2-pyrrolidone 872-50-4 212-828-1

涂层溶剂、纺织品和树脂的表面处理和金属面塑料Coatings (paints, printing inks), cleaning products (polymer removers, paint strippers/cleaners), agrochemicals, electronic equipment manufacture, petrochemical processing, pharmaceuticals. 6 1,2,3-三氯丙烷1,2,3-trichloropropane

96-18-4 202-486-1脱脂剂溶剂、清洁剂、油漆稀释剂、杀虫剂、树脂和胶水Pesticides, chlorinated solvents, polysulfide elastomers, hexafluoropropylene. 7邻苯二甲酸二(C6-8支链与直链)烷基酯，富C7链(DIHP) 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich 71888-89-6

276-158-1聚氯乙烯(PVC)塑料增塑剂、密封剂和印刷油墨Plasticiser in PVC, plasticiser in sealants and printing inks, sealants and coatings, printing inks, oil additive. 第六批20项高度关注物质清单(累计71项)The

Sixth 7 SVHCs List (Total 71 Items) 1铬酸铬Dichromium tris(chromate) 24613-89-6

246-356-2用于在航空航天，钢铁和铝涂层等行业的金属表面混合物。Mainly used in mixtures for metal surface treatment in the aeronautic/aerospace, steel and aluminium coating sectors. 2氢氧化铬酸锌钾Potassium hydroxyoctaoxidizincatedi-chromate 11103-86-9

234-329-8航空/航天，钢铁，铝线圈，汽车等涂层。Mainly used in coatings in the aeronautic/ aerospace, steel and aluminium coil coating and vehicle coating sectors.

3锌黄 Pentazinc

chromate octahydroxide 49663-84-5 256-418-0汽车涂层，航空航天的涂层。Mainly used in coatings in the vehicle coating and aeronautic / aerospace sectors. 4氧化锆硅酸铝耐火陶瓷纤维(属于CLP法规下索引号为650-017-00-8的耐火陶瓷纤维)以及满足以下三个条件的纤维：1.纤维主成份的组成为氧化硅、氧化铝、氧化锆(物质含量浓度可变) 2.纤维的平均直径 $< 6 \mu m$ 3.碱金属氧化物和碱土金属氧化物($Na_2O+K_2O+CaO+MgO+BaO$) 18%Aluminosilicate Refractory Ceramic Fibres (RCF) - -耐火陶瓷纤维组主要用在高温防火，工业应用(工业火炉和设备防火，汽车和航空航天设备)和建筑，生产的防火设备Refractory ceramic fibres are used for high-temperature insulation, almost exclusively in industrial applications (insulation of industrial furnaces and equipment, equipment for the automotive and aircraft/aerospace industry) and in fire protection (buildings and industrial process equipment).

5硅酸铝耐火陶瓷纤维(属于CLP法规下索引号为650-017-00-8的耐火陶瓷纤维)以及满足以下三个条件的纤维：1.纤维主成份的组成为氧化硅、氧化铝(物质含量浓度可变) 2.纤维的平均直径 $< 6 \mu m$ 3.碱金属氧化物和碱土金属氧化物($Na_2O+K_2O+CaO+MgO+BaO$) 18%Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) - -耐火陶瓷纤维组主要用在高温防火，工业应用(工业火炉和设备防火，汽车和航空航天设备)和建筑，生产的防火设备Refractory ceramic fibres are used for high-temperature insulation, almost exclusively in industrial applications (insulation of industrial furnaces and equipment, equipment for the automotive and aircraft/aerospace industry) and in fire protection (buildings and industrial process equipment).

6甲醛与苯胺的聚合物 Formaldehyde, oligomeric reaction products with aniline (technical MDA) 25214-70-4

500-036-1 主要用于其他物质的生产，少量用于环氧树脂固化剂Mainly used for manufacture of other

substances. Minor uses are as hardener for epoxy resins, e.g. for the production of rolls, pipes and moulds, and as well for adhesives.

7邻苯二甲酸二甲氧乙酯 Bis(2-methoxyethyl) phthalate

117-82-8 204-212-6 ECHA没有收到关于这种物质的任何注册。主要用途塑料产品中的塑化剂，涂料，颜料包括印刷油墨。 No registration for this phthalate compound has been submitted to ECHA. Hence, the substance seems not to be manufactured in or imported to the EU in quantities above 1 t/y. Main uses in the past were as plasticiser in polymeric materials and paints, lacquers and varnishes, including printing inks.

8邻甲氧基苯胺 2-Methoxyaniline; o-Anisidine 90-04-0 201-963-1

主要用于纹身和着色纸的染料生产，聚合物和铝箔 Mainly used in the manufacture of dyes for tattooing and coloration of paper, polymers and aluminium foil.

9对特辛基苯酚 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol) 140-66-9 205-426-2

用于生产聚合物的配制品和聚氧乙烯醚。也会被用于粘合剂，涂层，墨水和橡胶的成分。 Mainly used in the manufacture of polymer preparations and of ethoxylates. Further used as a component in adhesives, coatings, inks and rubber articles.

10 1,2-二氯乙烷 1,2-Dichloroethane 107-06-2 203-458-1

用于制造其他物质，少量作为化学和制药工业的溶剂。 Mainly used for manufacture of other substances. Minor uses as solvent in the chemical and pharmaceutical industry.

11 二乙二醇二甲醚 Bis(2-methoxyethyl) ether 111-96-6 203-924-4 主要被用于化学的反应试剂，也用作电池电解溶液和其他产品例如密封剂，胶粘剂，燃料和汽车护理产品 Used primarily as a reaction solvent or process chemical in a wide variety of applications. Used also as solvent for battery electrolytes, and possibly in other products such as sealants, adhesives, fuels and automotive care products.

12 砷酸、原砷酸 Arsenic acid 7778-39-4 231-901-9 主要用于陶瓷玻璃融化和层压印刷电路板的消泡剂 Mainly used to remove gas bubbles from ceramic glass melt and in the production of laminated printed circuit boards

13 砷酸钙 Calcium arsenate 7778-44-1 231-904-5 生产铜，铅和贵金属的原材料，主要用作铜冶炼和生产三氧化二砷的沉淀剂 Calcium arsenate is present in complex raw materials imported for manufacture of copper, lead and a range of precious metals. It appears mainly to be used as precipitating agent in copper smelting and to manufacture diarsenic trioxide. However, most of the substance seems to be disposed of as waste.

14 砷酸铅 Trilead diarsenate 3687-31-8 222-979-5 生产铜，铅和贵金属的原材料 Trilead diarsenate is present in complex raw materials imported for manufacture of copper, lead and a range of precious metals. The trilead diarsenate contained in the raw materials is in the metallurgical refinement process transformed to calcium arsenate and diarsenic trioxide. Whereas most of the calcium arsenate appears to be disposed of as waste the diarsenic trioxide is used further.

15 N,N-二甲基乙酰胺 (DMAC) N,N-dimethylacetamide (DMAC) 127-19-5 204-826-4 用于溶剂，及各种物质的生产及纤维的生产。也会被用于试剂，工业涂层，聚酰亚胺薄膜，脱漆剂和油墨去除剂 Used as solvent, mainly in the manufacture of various substances and in the production of fibres for clothing and other applications. Also used as reagent, and in products such as industrial coatings, polyimide films, paint strippers and ink removers.

16 4,4'-二氨基-3,3'-二氯二苯甲烷 (MOCA) 2,2'-dichloro-4,4'-methylenedianiline (MOCA) 101-14-4 202-918-9 主要用于树脂固化剂和聚合物的生产，以及建筑和艺术 Mainly used as curing agent in resins and in the production of polymer articles and also for manufacture of other substances. The substance may further be used in construction and arts.

17 酚酞 Phenolphthalein 1977/9/8 201-004-7 主要用于实验室试剂，PH试纸和医疗产品 Mainly used as laboratory agent (in pH indicator solutions), for the production of pH-indicator paper and in medicinal products.

18 迭氮化铅 Lead azide Lead diazide 13424-46-9 236-542-1 主要用作民用和军用的启动器或增压器的雷管和烟火装置的启动器 Mainly used as initiator or booster in detonators for both civilian and military uses and as initiator in pyrotechnic devices.

19 2,4,6-三硝基苯二酚铅 Lead styphnate 15245-44-0 239-290-0 主要用于小****弹药的底漆，另外常用于军用弹药，粉驱动装置和用于民用雷管。 Mainly used as a primer for small calibre and rifle ammunition. Other common uses are in munition pyrotechnics, powder actuated devices and detonators for civilian use.

20 **** Lead dipicrate 6477-64-1 229-335-2 ECHA没有收到任何关于该物质的注册 No registration for this substance has been submitted to ECHA. Lead dipicrate is an explosive like lead diazide and lead styphnate. It may be used in low amounts in detonator mixtures together with the two other mentioned lead compounds.