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## 美国各州最近通过的铅限制法案

铅是一种多年来已知对人体健康有毒有害的金属。它可以损害神经连接(尤其是青少年),引起血液和大脑的紊乱。公众对铅毒害性的关注使铅的使用大幅减少。美国许多州也针对铅的使用提出或通过了限制法令。

铅在水中非常不易溶解,可以使油漆涂层具有高度防水、经久耐用、可擦洗的特性。碳酸铅还可以中和油漆涂层中某些油类的酸分解产品,使油漆涂层坚硬,但又有韧性、防断裂。铅可以添加到某些塑料材料中,增加强度,甚至可以添加到黄铜当中,增加耐用性。

下表为美国部分州最近通过的铅限制法令,此外还有许多州的类似法案仍在等待批准当中。

州	限制范围	要求
佛蒙特	12岁以下儿童产品的表面涂层或任何部件	2008年10月1日起总铅限值为0.06%; 2009年7月1日起总铅限值为0.03%; 2010年1月1日起总铅限值为0.01%
马萨诸塞	14岁以下儿童珠宝	2008年10月17日起总铅限值为0.06%; 15微克可提取铅(如果产品是小部件的话)
康涅狄格	12岁以下儿童产品的任何部分	2009年7月1日起总铅限值为0.03%; 2011年7月1日起总铅限值为0.01%
	12岁以下儿童产品的油漆涂层	2009年7月1日起总铅限值为0.009%
马里兰	6岁以下儿童产品的表面涂层或任何部件	2008年5月13日起总铅限值为0.06%
缅因	12岁以下儿童产品的任何部件	2009年7月1日起总铅限值为0.009%
	12岁以下儿童产品的油漆涂层	2009年7月1日起总铅限值为0.06%
印地安那	任何消费品、表面涂层、食品或包装	2009年5月1日起符合16 CFR 1303.2或州法律的规定
华盛顿	12岁以下儿童产品的表面涂层或任何部件	2009年7月1日起总铅限值为0.009%

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### 解决方案

玩具中的铅正在迅速成为一个公众关注的热点，Intertek 凭借多年来专业准确的测试服务，可以帮助客户避免因不知情情况下存在的铅而导致的非必要召回，保护客户最宝贵的财富——品牌和企业形象。

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## Approved Lead Restrictions Bills in the US

Lead is a metal with its poisonous properties being known for many years. It damages nervous connections (especially in young children) and causes blood and brain disorders. The concern about lead poisoning has brought about widespread reduction in its use. Many States in the US have either proposed or approved the banning on the use of lead.

Lead can be very insoluble in water, making the paint coating highly water-resistant with a durable, washable finish. Lead carbonate can also neutralise the acidic decomposition products of some of the oils that make up the paint coating, so it stays tough, yet flexible and crack-resistant. Lead can also be added to certain plastics for strength, and even to brass to increase durability.

This Sparkle provides an overview of the latest approved bills pertaining to lead restrictions in different states in the US for easy reference. However bills from many other states are still pending for approval.

States	Scope	Requirements
Vermont	Any component part or surface coating of children's products for children under the age of 12	0.06% total lead by Oct 1, 2008; 0.03% total lead by Jul 1, 2009; 0.01% total lead by Jan 1, 2010.
Massachusetts	Children's jewelry for children less than 14 years of age	600ppm total lead by Oct 17, 2008; 15ug extractable lead (if product is a small part).
Connecticut	Any part of children's products for children under the age of 12	300ppm total lead by Jul 1, 2009; 100ppm total lead by Jul 1, 2011.
	Paint coating on children's products for children under the age of 12	90ppm total lead by Jul 1, 2009
Maryland	Any component part or surface coating of children's products for children under the age of 6	0.06% total lead by May 13, 2008
Maine	Any component part of children's products under the age of 12	0.009% total lead by Jul 1, 2009
	Paint coating on children's products for children under the age of 12	0.06% total lead by Jul 1, 2009
Indiana	Any consumer product, surface coating, food product or packaging	Limits per 16 CFR 1303.2 or State Law, by May 1, 2009
Washington	Any component part or surface coating of children's products for children under the age of 12	0.009% total lead by Jul 1, 2009

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**The Solution:**

Lead in toys is rapidly becoming an increasingly sensitive issue, and with Intertek's consistent professionalism and accuracy in our testing services, we help protect our clients from unnecessary recalls due to the unknowing presence of lead, and safeguarding their most important assets - brand and image.

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