



Synonyms: Bulk molding compound

物品名称: 团状不饱和聚酯玻璃纤维增强模塑料

Chemical Family: Thermoset Polyester

化学品分类: 热固性聚酯树脂基

model number: 4344

型号: 4344

**Section I — Information on Ingredient**

**部分 I —— 材料成分信息**

Ingredients 成分	%	CAS No. 危害物质分类及图式	OSHA-PEL 职业安全与卫生条例
Styrene 苯乙烯	<17	00100-42-5	100 ppm
Polyester 聚酯	<20	-	None Established
Zinc Stearate 硬脂酸锌	<1.5	000557-05-1	15 mg/m <sup>3</sup>
Carbon Black 碳黑	<3	001333-86-4	3.5 mg/m <sup>3</sup>
Fibrous Glass 玻璃纤维	<35	065997-17-3	3.5 mg/m <sup>3</sup>
Alumina Trihydrate 氢氧化铝	<60	000471-34-1	15 mg/m <sup>3</sup>
Kaolin 高岭土	<29	001332-58-7	15 mg/m <sup>3</sup>
Calcium Carbonate 碳酸钙	<70	000471-34-1	15 mg/m <sup>3</sup>
Polyethylene 聚乙烯	<2	009002-88-4	15 mg/m <sup>3</sup>

**Section II — Physical Characteristics**

**部分 II —— 物理特性**

Boiling Point (Deg. C): N/A 沸点 (摄氏度): 无	Solubility in Water: Negligible 水溶解性: 不溶
Vapor Pressure (mm Hg): 5.2 蒸汽压力 (毫米汞柱): 5.2	Specific Gravity (Water=1): 1.2-2.2 比重: 1.2-2.2
Vapor Density (Air=1): 5.2 蒸汽密度: 5.2	Percent Volatile by Volume: 5-13 单位体积挥发: 5-13

**Section III—Health Hazard Data**  
**部分III—常温下危害健康数据**

<p>Effects of Overexposure: 暴露状态下的危害性</p>	<p>Direct contact with this material may cause minimal eye and skin irritation. This product may cause skin sensitization which may be evidenced by a rash. Inhalation overexposure to styrene vapor may cause headache, nausea, fatigue, central nervous system depression and irritation to the nose and throat. 直接接触 BMC 材料可能导致最低程度的眼睛及皮肤疼痛或过敏。这种产品可使皮肤搔痒，经证实将有可能产生皮疹。吸入过量的苯乙烯蒸汽，可导致头疼、恶心、疲劳、神经衰弱以及口鼻咽喉过敏。 Chronic overexposure may result in dermatitis, possible damage to liver, kidneys or neurological system. 长期接触裸露的 BMC 材料可能导致皮炎，严重的可能伤害肝、肾、神经系统。 Acute inhalation overexposure to fibrous glass may cause temporary irritation to the skin and respiratory tract. 突然大量接触或呼入玻璃纤维，可能导致皮肤或呼吸道发炎 The material is thoroughly “wet” with styrene so dust is not a problem. However, dust may be generated in sanding or grinding operations performed. Subsequent to molding. BMC 材料由于苯乙烯的作用，所以比较“湿”，没有粉尘的问题。但是粉尘问题将会在模压成型后，去除废边的工艺中发生。</p>
<p>Emergency and First Aid Procedures: 应急程序</p>	<p>In case of skin contact, wash affected area thoroughly with soap and water. 如果接触皮肤，则可用肥皂或清水直接清理患处。 In case of eye contact, immediately irrigate with plenty of water for 15 minutes. 如果接触眼睛，则立即用大量的清水冲洗患处大约 15 分钟。 In case of inhalation overexposure, move to fresh air until overexposure effects subside. 如果过度吸入气体，则移动至新鲜空气处，直至不适感消失。</p>

**Section IV—Fire and Explosion Hazard Data**  
**部分IV—着火以及爆炸危害数据**

<p>Flash Point (Method Used) 闪点 (试验方法)</p>	<p>76°C (Cleveland Open Cup)</p>
<p>Extinguishing Media 灭火介质类型</p>	<p>Water, Foam, Carbon Dioxide or Dry Chemical 水、泡沫、二氧化碳、干粉</p>
<p>Special Fire Fighting Procedures 特殊防火程序</p>	<p>Wear self-contained breathing apparatus 穿着齐全的呼吸设备</p>
<p>Unusual Fire and Explosion Hazard 特殊的燃烧以及爆炸危害</p>	<p>None 无</p>

**Section V—Reactivity Data**

**部分V——反应数据**

Stability 稳定性	Stable 稳定
Hazard Polymerization 化学反应危险性	Polymerization may occur at elevated temperature, but is non-violent. 在高温下将发生聚合反应，但是不剧烈。
Conditions to Avoid 避免条件	Exposure to high temperatures may result in non-violent polymerization. Avoid prolonged storage at over 37°C 高温将导致不剧烈的聚合反应。避免放在 37°C 以上高温储存。
Hazard Decomposition Product 分解物危害	Carbon monoxide, carbon dioxide & other hydrocarbons. 一氧化碳，二氧化碳，其他水解烃类

**Section VI—Poll Orleak Procedures**

**部分VI——散落和泄漏处理程序**

Steps to Be Taken If Material is Released or Spilled 材料散落和溢出的处理步骤	No special procedures are needed. Clean up any spilled material and place in a waste disposal container. Remove any residue by scrubbing with soap and water. 没有特殊的程序。清理散落的材料，丢弃入废物处理箱中。用肥皂和水即可清洗掉残渣。
Waste Disposal Method 废料的处理方法	Disposal must be made in accordance with all State and local regulations. Do not store or incinerate waste in a closed container. 处置方法应与国家以及当地的所有法律法规一致。废弃物不需在密闭容器内存放或焚化。

**Section VII—Special Protection Information**

**部分VII——特殊保护信息**

Ventilation 通风	Either local exhaust or general exhaust is acceptable. 必须通风排气，使用抽风机或者一般排风都可以。
Respiratory Protection 呼吸保护	Use NIOSH approved organic vapor respirator if styrene concentration exceeds PEL or TLV. Use dust filter type mask to prevent exposure to airborne particulates. 如果苯乙烯浓度超过 OSHA-PEL（职业安全与卫生条例）的指标，应使用呼吸器。使用防尘口罩阻止吸入空气中的微尘。
Protective Gloves 防护手套	Gloves are recommended to prevent contact with Skin. 推荐使用手套来保护皮肤。
Eye Protection 眼睛保护	Wear safety glasses or goggles with side shields. 配戴有护边的安全性护目镜。
Other Protective Equipment 其它防护措施	Wear long sleeved, loose fitting clothing to help minimize exposure. 穿长袖，穿着适合的衣服以减少暴露。

**Section VIII—Special Precautions**  
**部分VIII—特别提示**

Other Precautions: 其他提示:	For maximum storage life to maintain moldability, store at 25°C or below. 建议储存在 25°C 以下, 以最大延长材料使用寿命。 Performs of BMC should be stored in a sealed container with a re-sealable plastic liner, to prevent the performs form gaining or losing moisture. BMC 应储存在一个有密封专用塑料内胆的密封容器内, 以防止获得或失去挥发分。
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**Section IX—Transport Information**  
**部分IX—运输标示**

Precautions to be taken in handling & storage: 搬运和储存注意事项:	Store in a cool, dry place. Keep containers closed to avoid contamination. Prevent accumulations of dust. Avoid excessive heat and sources of ignition. Observe good housekeeping practices. 贮存于阴凉, 干燥的地方。保持容器封闭, 以避免污染。防止灰尘积累。避免过度高温和火源。保持良好的仓库管理措施。
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<u>Shipping Information</u>	US DOT	Canadian TDG	IMO
Shipping Name:	Bulk Molding Compound	Bulk Molding Compound	Bulk Molding Compound
Hazard Class:	class 9	class 9	class 9
Packaging Group:	32, IB8, IP3	32, IB8, IP3	32, IB8, IP3
UN Number:	UN 3314	UN 3314	UN 3314
Required Labels:	class 9	class 9	class 9
Hazardous Substance:	Not Applicable	Not Applicable	Not Applicable

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