

Safety Data Sheet 安全數據表

E236 Urethane Mold Release™ 聚氨酯脫模劑

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1. IDENTIFICATION 鑒定

Stoner Incorporated 1070 Robert Fulton Hwy. Quarryville, PA 17566 1-800-227-5538	Product Name 產品名稱: Urethane Mold Release™ 聚氨酯脫模劑 Product Code 產品編號: E236 Product Use 產品用途: Mold Release 脫模劑 24小時緊急電話: 1-800-424-9300 [CHEMTREC]
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2. HAZARD IDENTIFICATION 危害識別

POTENTIAL HEALTH EFFECTS 對健康的潛在影響

Classification of the chemical in accordance with paragraph (d) of §1910.1200; (按照1910.1200 (d) 段的化學分類);

GHS Hazard
Symbols 危
險品標誌



GHS Classification

GHS分類

Gases under pressure - Liquefied Gas
高壓氣體-液化氣

Flammable Aerosol Category 2
易然氣霧劑 2

Signal Word 信號詞

Warning 警告

Hazard Statements 危險說明

Flammable aerosol. 易然氣霧劑
Contains gas under pressure; may explode if heated.
含壓縮氣體; 如果受熱可能會爆炸。

Precautionary Statements 防範說明

Prevention 預防

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 遠離熱源/火花/明火/熱表面。 - 禁止抽煙。
Do not spray on an open flame or other ignition source. 不要噴在明火或其他點火源上。
Pressurized container: Do not pierce or burn, even after use.
加壓容器：即使使用後也不要刺穿或燃燒。

Storage 儲存

Protect from sunlight. Store in a well-ventilated place.
避免陽光直射。存放在通風良好的地方。
Protect from sunlight. Do no expose to temperatures exceeding 50°C/ 122°F.
避免陽光直射。不要暴露在超過50°C / 122°F的溫度下。

3. COMPOSITION/INFORMATION ON INGREDIENTS 組成/成分

COMPONENT 成分	CAS #	Percent 百分比
Halogenated hydrocarbon/ether blend 鹵代烴/醚混合物 Mixture		80-100

HMIS® III* HAZARDOUS WARNINGS:

* See www.paint.org/hmis or call the NPCA at 1 (202) 462-6272 for more information on this current rating system.

*請參閱www.paint.org/hmis或致電NPCA 1 (202) 462-6272查詢更多有關目前的評級系統信息。

4. FIRST AID MEASURES急救措施

Eyes (眼睛):	Immediately flush eyes gently with plenty of water for at least 15 minutes while holding eyelids apart. If symptoms persist or there is visual difficulty, seek medical attention. 立即用大量水沖洗眼睛至少15分鐘，同時將眼瞼分開。如果症狀持續或有視力障礙，請就醫。
Skin Contact (皮膚接觸):	In case of contact, immediately wash contaminated area with plenty of water for at least 15 minutes. For liquid contact, treat for frostbite if necessary. Seek medical attention if symptoms persist. Wash clothing before reuse. 如接觸，立即用大量清水沖洗污染區域至少15分鐘。對於液體接觸，必要時當凍傷治療。如果症狀持續，請尋求醫療救助。重新使用前請洗滌衣物。
Ingestion (吞入):	Do not induce vomiting. Aspiration into the lungs can cause serious damage. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Contact a physician, medical facility, or poison control center immediately. 不要催吐。吸入肺部可能會造成嚴重損害。如果嘔吐自發發生，請將頭部置於臀部以下，以防止液體進入肺部。立即聯繫醫生，醫療機構或毒物控制中心。
Inhalation (吸入):	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention. 移到新鮮空氣處。如呼吸停止，立即進行人工呼吸。如呼吸困難，給輸氧。立即尋求醫療救助。

NOTES TO PHYSICIAN:醫護人員須知：

Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should be used only in situations of emergency life support. 由於心律可能受到干擾，因此兒茶酚胺藥物（例如腎上腺素）僅應在緊急生命支持的情況下使用。

5. FIRE FIGHTING MEASURES 消防措施

Fire and/or Explosion Hazards

火災和/或爆炸危險：

This product contains a component(s) that is considered an extremely flammable gas(es), which has vapors that are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, or other flames and ignition sources at locations distant from the material's handling point. Containers may rupture or explode under fire conditions.

本產品含有被認為是極易燃氣體的成分，其蒸氣比空氣重，並且可能沿著地面行進，或者通過通風系統移動，並通過熱，點火燈，或其他火焰和點火源，在遠離材料處理點的位置點燃。容器在火災情況下可能會破裂或爆炸。“空”容器會留有產品殘留物，且可能有危險性。

Fire Fighting Instructions

消防指示：

Use CO₂, foam or dry chemical. Water is generally not effective and may spread fire; however, water spray may be used from a safe distance to cool closed containers and protect surrounding area.

使用二氧化碳，泡沫或乾化學品。水一般不起作用，甚至可能會蔓延；但是，從安全距離噴水可以冷卻密封容器並保護周圍區域。

6. ACCIDENTAL RELEASE MEASURES 意外洩露應急處理

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED 洩漏或灑出化學物應採取處理的步驟：

Ventilate contaminated area. Remove all sources of ignition. Wear appropriate personal protective equipment (PPE). Stop or reduce discharge if it can be done safely. Avoid run-off into storm sewers and ditches which may lead to natural waterways. Clean up with absorbent material. Place absorbent materials into container and close it tightly. Dispose of container properly. If runoff occurs, notify authorities as required.

通風受污染區域。除去所有火源。穿戴適當的個人防護裝備（PPE）。如果可以，安全地停止或減少排放。避免流入暴雨的下水道和溝渠，這可能會流進天然水道。如果發生徑流，請根據需要通知當局。用吸收材料清潔。將吸收材料放入容器中並緊緊關閉。妥善處理容器。

7. HANDLING AND STORAGE 處理和儲存

Handling:

Use with adequate ventilation. Do not use near ignition sources. Avoid prolonged or repeated contact with skin. Avoid prolonged or repeated breathing of vapor. May cause frostbite. Inhalation of respirable aerosols of the lubricant in this product may cause serious toxic effects in the lungs, based on animal studies. Use proper PPE. 使用時要充分通風。請勿在火源附近使用。避免長時間或反復接觸皮膚。避免長時間或反復呼吸蒸氣。有導致凍傷的可能。根據動物研究，吸入本產品中的潤滑劑所產生的氣霧可能對肺部造成嚴重的毒性作用。使用適當的個人防護裝備

Storage

儲存：

Store in a cool, dry, well ventilated area away from all sources of ignition. Do not store at temperatures above 122 degrees F. Empty container may contain residues which are hazardous. Store away from incompatible materials such as materials that support combustion (oxidizing materials) and corrosive materials (strong acids or bases). Store away from oxygen cylinders or other oxidizing materials and possible ignition sources. Ground all equipment and cylinders before use.

存放在陰涼，乾燥，通風良好的區域，遠離所有火源。不要在高於122華氏度的溫度下儲存。空容器可能含有危險的殘留物。遠離不相容的材料，如支持燃燒的材料（氧化材料）和腐蝕性材料（強酸或強鹼）。在處理和儲存時應遵循安全指引中的常規預防措施。存放在遠離熱源和陽光直射的地方。遠離氧氣瓶或其他氧化物質和可能的點火源。使用前將所有設備和氣瓶接地。

8. EXPOSURE CONTROLS / PERSONAL PROTECTION 個人防護

Engineering Controls

工程控制：

Ventilation should be adequate to prevent exposures above the limits indicated below in this section of the SDS (from known, suspected or apparent adverse effects).

通風應足以防止暴露超出本SDS下面所述的限值（來自已知，可疑或明顯的不良反應）。

Eye Protection

眼睛防護：

Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid or airborne material. Have an eye wash station available.

處理本產品時佩戴帶有側護板的耐化學品安全眼鏡。當可能存在與飛濺或噴灑液體或空氣傳播物質的眼睛接觸的可能性時，戴上額外的護目鏡，如化學防濺眼鏡和/或面罩。需有洗眼台可用。

Skin Protection

皮膚防護：

The use of chemically resistant gloves is recommended if there is any possibility of prolonged or repeated liquid contact with skin. 如果長期或反復與皮膚接觸的液體有可能，建議使用耐化學手套。

Respiratory Protection

呼吸道防護：

A supplied air respirator should be used if ventilation is not sufficient to maintain exposure limits. Use NIOSH approved respirator where there is likelihood of inhalation of the product mist, spray or aerosol.

如果通風不足以維持暴露限制，則應使用附帶的空氣呼吸器。懷疑吸入產品霧，噴霧或氣溶膠時，請使用NIOSH批准的呼吸器。

COMPONENT 成分

Halogenated hydrocarbon/ether blend 鹵代烴/醚混合物

CAS

Mixture 混合物

ACGIH TLV

Not established 無資料

OSHA PEL

Not established 無資料

OTHER 其他

1000ppm TWA (Mfr.)

9. PHYSICAL AND CHEMICAL PROPERTIES 物理和化學特性

Physical State: 物理狀態	Aerosol can 氣霧罐	Lower Flammability Limit (%): 易燃下限:	Not applicable 不適用
Appearance: 外觀	Colorless to pale yellow 無色至淡黃色	Upper Flammability Limit (%): 易燃上限	Not applicable 不適用
Odor: 氣味	Slight ethereal. 輕微的空靈。	Vapor Pressure (PSIG @ 70°F): 蒸汽壓力	79.00
Odor Threshold: 氣味限度	Mild 溫和	Vapor Density [air = 1]: 蒸氣密度	2.04
pH: 酸鹼度	Not applicable 不適用	Relative Density (H2O=1): 相對密度	0.8
Melting/Freezing Point (°F): 熔點/冰點	No data available 無可用數據	Solubility in Water: 水中的溶解度	Not determined 無法鑑定
Boiling Point (°F): 沸點	No data available 無可用數據	Partial Coefficient: n- 分項係數	No data available 無可用數據
Flash Point (°F PMCC): 閃點	Not applicable 不適用	octanol/water: 辛醇/水	
Evaporation Rate: 蒸發率	9.1-0.5(n-Butyl acetate=1)	Autoignition Temperature (°F): 自燃溫度	
Flammability (solid, gas): 易燃性(固態, 氣態)	No data available 無可用數據	Decomposition Temperature (°F): 分解溫度	No data available 無可用數據
Percent VOCs (%): 揮發性有機化合物百分比	40 - 60	Viscosity, dynamic (cSt): 黏度, 動態	No data available 無可用數據

10. STABILITY AND REACTION 穩定性和反應

Chemical Stability

化學穩定性: Stable. 穩定

Conditions to Avoid:

避免接觸的條件: Avoid contact with: Alkali. Alkaline earth metals. Powdered metals. Ignition sources such as open flames, sparks, static discharges or glowing metal surfaces. Oxidizers. Acetic acids Organic acid anhydrides. 避免接觸: 鹼。鹼土金屬。粉末金屬。點火源, 例如明火, 火花, 靜電放電或發光的金屬表面。氧化劑。乙酸有機酸酐。

Decomposition Products:

分解產物: This material can be decomposed by extremely high temperatures (open flames, glowing metal surfaces, etc.) forming hydrofluoric acid and carbonyl fluoride. If heated with peroxides present, violent decomposition can occur. 極高的溫度 (明火, 發光的金屬表面等) 可分解該材料, 形成氫氟酸和碳酰氟。如果與過氧化物一起加熱, 會發生劇烈分解。

11. TOXICOLOGICAL INFORMATION 毒理學資料

Inhalation Toxicity:吸入毒性 Inhalation of respirable aerosols of the lubricant in this product may cause serious toxic effects in the lungs, based on animal studies. Use proper PPE. 根據動物研究, 吸入本產品中的潤滑劑所產生的氣霧可能對肺部造成嚴重的毒性作用。使用適當的PPE。

Reproductive & Developmental Toxicity: 繁殖與毒性發展: No data available.無可用數據

Ingredient 成分

Halogenated hydrocarbon 鹵代烴

CAS #
Mixture 混合物

Toxicological Data 毒理學資料

ORAL ALD Rat > 1500 mg/kg
4HR ALC Rat 383000 ppm
Inhalation LC50 Rat = 164000 ppm

Ether propellant 醚推進劑

115-10-6

12. ECOLOGICAL INFORMATION 生態資料

Ecological Toxicity: 生態毒性 No data available 無可用數據
Mobility: 移動性 No data available 無可用數據

Ingredient 成分

Ether propellant 醚推進劑

CAS

115-10-6

Toxicological Data 毒理學資料

48HR NOEC GUPPIES > 4000 mg/L

48HR NOEC Daphnia > 4000 mg/L

13. DISPOSAL CONSIDERATIONS 棄置處理

Disposal 棄置: Dispose according to Federal, State and local regulations. 根據聯邦, 州和地方法規進行處理。

14. TRANSPORTATION INFORMATION 運輸信息

Agency 機構	UN Number UN 號碼	Proper Shipping name 正確的運輸名稱	Hazard Class 危險等級	Packing Group 包裝
DOT	UN1950	Aerosols, Flammable† 壓縮氣, 可燃	2.1	Not applicable 不適用
IATA	ID8000	Consumer Commodity† 消費品	9	Not applicable 不適用
IMDG	UN1950	Aerosols, Flammable† 壓縮氣, 可燃	2.1	Not applicable 不適用

† "Limited Quantities" may be applicable for this transportation mode. "有限的數量"可能適用於這種運輸方式。

15. REGULATORY INFORMATION 監管信息

Warning: This product contains the following chemicals that are subject to reporting requirements for the following regulatory bodies listed below:

警告: 本產品含有以下化學品, 須遵守下列管理機構的報告要求:

COMPONENT 成分	CAS #	% BY WEIGHT 重量	Regulatory Body 監管機構
No components listed in this section. 在本節中沒有列出的成分			SARA Section 313

Warning: This product may contain chemicals known to the State of California to cause cancer. See list below

警告: 本產品含有以下化學品, 須遵守下列管理機構的報告要求。

No components listed in this section.

在本節中沒有列出的成分

Prop65 Cancer

Warning: This product may contain chemicals known to the State of California to cause cancer. See list below

警告: 本產品含有以下化學品, 須遵守下列管理機構的報告要求。

No components listed in this section.

在本節中沒有列出的成分

Prop65 Birth Defects

All components of this product are listed on the TSCA inventory. 該產品的所有組件都列在TSCA庫存中。

16. OTHER INFORMATION 其他信息

Other Information 其他信息: MSDS Prepared by L. Dean Swartz, MSDS Coordinator MSDS由L. Dean Swartz編寫

Version Date 版本日期: 06/14/15

This information contained in this SDS is believed to be accurate as of the version date, but is not warranted to be. Since the use of this information and the conditions of use of this product are not within the control of Stoner Inc, it is the user's obligation to determine the conditions of safe use.

本SDS中包含的此信息在版本日期內被認為是準確的, 但不保證是準確的。由於使用這些信息和使用本產品的條件不在Stoner公司的控制範圍內, 因此用戶有義務確定安全使用條件。