

## SAFETY DATA SHEET

### 安全数据单

#### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**PRODUCT NAME:** InnoPlus LLDPE 9641U  
**CHEMICAL NAME:** Linear Low Density Polyethylene  
**MANUFACTURER:** PTT Global Chemical Public Company Limited  
14 Map Ta Phut Industrial Estate, I-1 Rd., Map Ta Phut,  
Muang Rayong District, Rayong 21150, Thailand  
8 Map Ta Phut Industrial Estate, I-10 Rd., Map Ta Phut,  
Muang Rayong District, Rayong 21150, Thailand  
**24-HOUR EMERGENCY CONTACT:** Thailand; +66(0)-3897-5412  
**CONTACT:** +66(0)-3897-6905

#### 1. 物质性质/公司准备/实施

**产品名称:** InnoPlus 线性低密度聚乙烯 9641U

**化学名称:** 线性低密度聚乙烯

**制造商:** 泰国鹏天泰全球化学公共有限公司

泰国罗勇府罗勇区麦塔普, I-1 路, 麦塔普工业大厦 14 楼, 21150

泰国罗勇府罗勇区麦塔普, I-10 路, 麦塔普工业大厦 8 楼, 21150

**24 小时紧急联系电话:** 泰国 : +66(0)-3897-5412

**联系方式:** +66(0)-3897-6905

#### 2. HAZARDS IDENTIFICATION

**HAZARD CLASSIFICATION:** Non-hazardous substance at temperature below the melting point  
as determined in issue number 9.

#### 2. 危险品性质

**危险级别:** 发行号 9 号, 即在熔点下没有危险物质产生。

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS no.	Weight %
1-Hexene Polymer with Ethene	113609-22-6	>99
	25213-02-9	
	85411-34-3	
Additives	-	<1.0

### 3. 组成/原料信息

组成物	CAS 号	质量%
1-己烯, 与乙烯的聚合物	113609-22-6	>99
	25213-02-9	
	85411-34-3	
添加物	-	<1.0

## 4. FIRST AID MEASURES

### INHALATION

Remove to fresh air. If patient is not breathing or breathing irregular, provide artificial respiration or oxygen. Obtain medical attention by physician if symptoms persist.

### EYE CONTACT

Immediately flush eyes with plenty of water for several minutes. Be sure to remove any contact lens. Get medical attention if irritations persist.

### SKIN CONTACT

Wash skin with soap and water. Quickly remove contaminated cloth or shoes. Obtain medical if irritation occurs.

### INGESTION

Do not induce vomiting, consult a physician immediately.

### NOTES TO PHYSICIAN

No specific treatment. Treat symptomatically.

## 4. 急救方法

### 吸入

搬到空气流通处。如果病人没有呼吸或呼吸不正常，提供人工呼吸或氧气。如果症状持续，联系医疗人员提供医疗帮助。

### 眼部接触

立刻用大量清水连续数分钟冲洗眼部。确保摘除任何隐形眼镜。如果持续有刺激感，联系医疗帮助。

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## 皮肤接触

使用肥皂和清水清洗皮肤。快速移除被污染的衣物和鞋子。如果产生刺激感，联系医疗帮助。

## 摄入

不要催吐，立刻联系医疗人员

## 医疗人员注意

不需特别处理。按症状处理。

## 5. FIRE-FIGHTING MEASURES

**SUITABLE EXTINGUISHING:** Water haze, Foam, Chemical powder.

### MEDIA

**UNSUITABILITY EXTIGUISHING:** None

### MEDIA

**HAZARDS DECOMPOSITION:** Decomposition products may include carbon dioxide.  
**PRODUCT(S)** Normally combustion forms water vapor and may produce carbon monoxide and other hydrocarbons. The products of the burning are dangerous.

**SPECIAL PROTECTIVE:** Use personal protective equipment or self-contained  
**EQUIPMENT** breathing apparatus (SCBA) when fighting fires in enclosed areas or confined room.

## 5. 防火手段。

适合灭火剂：水雾，泡沫，化学粉剂

### 媒介

不适合灭火剂：无

### 媒介

危险分解：分解产生物可能包括二氧化碳。

产生物：通常产生水蒸气，可能产生一氧化碳和其他氢氧化合物。

特殊保护：使用个人防护设备或独立设施、

设备： 在密闭或有限空间灭火时需使用呼吸辅助设施(SCBA)。

## 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Eliminate all sources of ignition in vicinity of spilled material. Wear appropriate personal protective equipment when cleaning up spills.

### ENVIRONMENTAL PRECAUTIONS

Avoid dispersal of split materials to natural waters, soil or sewers.

### METHODS FOR CLEANING UP

Sweep up or vacuum split materials and place in a designated, labeled waste container. Contact licensed waste disposal contractor to dispose.

## 6. 事故发生处理

### 个人保护

清除材料洒落区的所有易燃物。在清理泼溅物时需穿着适当的个人防护器具。

### 环境保护

避免将泼溅的材料弃置于自然水体，土壤或下水道中。

### 清洁方法

清扫或用吸尘器吸取泼洒材料，并且将回收物放置于设计好的有标签的回收箱中。联系有执照的垃圾处理商进行处理。

## 7. HANDLING AND STORAGE

### HANDLING

Use good housekeeping for safe handling of the product. No smoking, drinking or eating in handling and store area. Avoid spilling the product, as this might cause falls. Potential toxic/irritating fumes may be evolved from heated material. Provide appropriate ventilation for such processing conditions. Take precautionary measures against explosion risks, as all types of polymers may develop dust during transporting or grinding of granules.

### STORAGE

Protect from heat and direct sunlight in a dry, cool and well-ventilated area. Take precautionary measures to prevent the formation of static electricity. Do not store together with oxidizing and self-igniting products.

## 7.移交和存储。

### 移交

使用良好的储存装置用于安全移交产品。在移交和存储区域禁止吸烟、饮酒或进食。避免旋转产品,旋转容易导致倾洒。加热材料可能会含潜在有毒/刺激气体。在进行此类加工时注意通风。因所有类型聚合物在运送或磨碾为小粒时都有可能产生粉尘,因此需使用防护措施防止爆炸危险。

### 储存

防热处存放,避免直接日晒,储存于干燥,凉爽及通风环境中。采取保护措施防止静电产生。不要与其他易氧化物与自燃物同时储存。

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE LIMITS

No exposure limits value known.

### EXPOSURE CONTROLS

#### Respiratory Protection:

Product processing, heat sealing of film or operations involving the use of wires or blades heated above 300°C may produce dust, vapor or fumes. To minimize risk of overexposure to dust,vapor or fumes it is recommended that a local exhaust system is placed above the equipment, and that the working area is properly ventilated. If ventilation is inadequate, use certified respirator that will protect against dust/mist.

#### Skin and Body Protection:

Hot material: Wear heat-resistant protective gloves, clothing and face shield able to withstand the temperature of the molten product. Cold material: None required; however, use of gloves is good industrial practice.

#### Hand Protection:

Hot material: Wear heat-resistant protective gloves able to withstand the temperature of the molten product. Cold material: None required; however, use of gloves is good industrial practice.

#### Eyes Protection:

Safety glasses with side shields. Use dust goggles if high dust concentration is generated.

## 8.接触控制/个人防护

### 接触限制

没有已知接触极限。

## 接触控制

**呼吸保护：** 产品加工，热封或使用线或刀片，加热超过 300 摄氏度可能产生粉尘、蒸汽或烟尘。减少暴露在粉尘、蒸汽或烟雾中的危险，推荐使用在设备上使用固定排气系统，工作区域保持良好通风。如果通风设施不良，使用经认证的呼吸器能帮助抵抗粉尘或迷雾。

**皮肤和身体保护：** 高温材料：穿戴防热保护手套、衣物和面罩，保护承受熔化材料所需温度。低温材料：无特殊要去。但在工业操作中推荐使用手套。

**手部保护：** 高温材料：穿戴防热保护手套，保护承受熔化材料所需温度。  
低温材料：无特殊要求。但在工业操作中推荐使用手套。

**眼部保护：** 带边罩的安全眼镜。如果产生高密度粉尘，需要使用防尘眼罩。

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>PHYSICAL STATE:</b>	Solid (Pellet Form)
<b>ODOR:</b>	Paraffin-like
<b>COLOR:</b>	Off-white
<b>MELTING POINT:</b>	120 to 130 °C
<b>BOILING POINT:</b>	Non allocated
<b>FLASH POINT:</b>	Not applicable
<b>VAPOR PRESSURE:</b>	Not applicable
<b>DENSITY:</b>	0.916 – 0.940 g/cm <sup>3</sup>
<b>AUTO-IGNITION: TEMPERATURE</b>	350°C approx.
<b>XPLOSIVE PROPERTIES:</b>	High dust concentrations have a potential for sparking or explosion
<b>WATER SOLUBILITY:</b>	Negligible

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## 9.物理和化学成分

物理状态：	固态（小球状）
气味：	石蜡味
颜色：	类白色
熔点：	125-135 摄氏度
沸点：	无统计
闪点：	不适用
蒸气压力：	不适用
密度：	0.916-0.940 克/立方厘米
自然点：	约 350 摄氏度
温度	
爆炸成分：	高密度粉尘有火花或爆炸可能。
水溶性：	不可溶

## 10. STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stability; under normal conditions of storage and use.

**CONDITIONS TO AVOID:** Not applicable

**INCOMPATIBILITY MATERIALS:** Incompatibility; to avoid strong oxidizing agents such as chlorates, nitrates, peroxides, etc.

**HAZARDOUS DECOMPOSITION:** Will not occur; under normal conditions of storage and use.

### PRODUCTS

## 10.稳定性和反应性

化学稳定性：	稳定，一般条件下储存和使用。
避免情况：	不适用。
不兼容材料：	不兼容：避免与强氧化物同时使用：如氯酸盐、硝酸盐、过

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氧化物等。

危险分解: 不会发生；在一般条件下储存及使用。

产品

## 11. TOXICOLOGICAL INFORMATION

### PRIMARY IRRITANT EFFECT

**Skin:** No irritant effect.  
**Eyes:** No irritant effect.  
**Sensitization:** No sensitizing effect known.

### ADDITIONAL TOXICOLOGICAL INFORMATION

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

## 11. 毒性信息

### 主要刺激效果

皮肤： 无刺激  
眼部： 无刺激  
过敏反应： 无已知过敏效果。

### 补充毒性信息：

视使用及处理情况而定，根据我们的经验和已知信息，此产品没有任何有害效果。

## 12. ECOLOGICAL INFORMATION

### TOXICITY

The product is not toxic, small particles can have physical effects on water and soil organisms.

### PERSISTENCE AND DEGRADABILITY

This product is not biodegradable.

### OTHER ADVERSE EFFECTS

No know significant effects or critical hazards.



## 12. 环保信息

### 毒性

此产品无毒，细小分子可能对水及土壤成分产生物理影响。

### 持久性和降解性

此产品无法生物降解。

### 其他副作用

没有已知明显影响或可能危险，

## 13. DISPOSAL CONSIDERATIONS WASTE TREATMENT METHODS

Recycle to process, if possible. Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, and treatment, storage or disposal facilities. Dispose of in accordance with all applicable local and national regulations.

### 13 废弃处理

#### 废料处理方式

如条件允许，可回收处理，避免与洒溅材料接触，避免倒入土壤或地表水中。咨询环境专业人士，是否当地、区域或国家条例中规定洒溅或污染材料为危险废弃物。仅使用认可交通工具，回收物，处理、储存和丢弃设施。根据当地或国家适用条例进行处理。

## 14. TRANSPORT INFORMATION TRANSPORT/ADDITIONAL INFORMATION

According to national and international guidelines, which regulate the road-, rail-, air- and sea-transport, this product is classified as not dangerous.

### 14 运输信息

#### 运输/附加信息

按照国家和国际关于公路、铁路、航空、海洋运输条例，本产品无危险。

## 15. REGULATION INFORMATION

**PACKAGING AND LABELLING:** No special requirement.  
**INVENTORIES:** Australian Inventory (AICS).  
Canada Inventory (DSL).  
China Inventory (IECS).  
EC Inventory (EINECS).  
Japan Inventory (ENCS).  
Korea Inventory (ECL).

### 15 规范信息

包装和标签： 无特殊要求

化学品名录： 澳大利亚名录（AICS）

加拿大名录（DSL）

中国名录（IECS）

欧盟名录（EINECS）

日本名录（ENCS）

韩国名录（ECL）

## 16. OTHER INFORMATION

### HISTORY

**Date of Issue:** Oct 2014

**Revision:** 3

*Indicates information that has changed from previously issued version.*

### NOTICE

This Safety Data Sheet has been based upon data considered to be accurate at the time of its preparation. Despite our efforts, it may not be up to date or applicable to the circumstances of any particular case. We take no responsibility for inappropriate use, processing and handling by purchasers and uses of the product.

## 16 其他信息

### 历史

签发日期： 2014 年 10 月

版本： 3

表明信息与之前发行版本有所修改。

### 注意：

此安全册信息基于准备时的准确信息。尽管我们努力提供准确信息，但也可能在特殊情况下包括过时或不适用信息。我们对购买商不适当使用、处理或移交及使用产品免责。