



# MSDS

Material Safety Data Sheet  
**MC-HS BLUE**

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Revision Date: 2014.05.23 (Rev.0)

Product Name: MC-HS BLUE  
Chemical Name: POLYAMIDE 6 (CAST NYLON 6)  
CAS NO: 25038-54-4 (POLYMER)  
Product Use: Engineering Plastic Stock Shape for Machining  
Company Identification: PSR Industrial Ltd.  
Namdongseo-ro, Namdong-Gu, Incheon-City, Korea  
(TEL:82-32-677-2971, FAX:82-32-677-2974)

## Hazard Identification

### Eye

Polymer particles can cause mechanical irritation.

### Skin

Hot and molten material has the potential to cause thermal burns.

### Inhalation

Shapes not respirable.

### Ingestion

No specific information available on the product.

## Composition, information on Ingredients

Additives not hazardous by 29 CFR 1910.1200.

Identity	CAS#	Concentration(%)
Not Applicable	Not Applicable	Not Applicable

This is a polymeric material. All constituents have no likelihood of exposure under normal conditions of processing and handling.

## First Aid Measures

### Eye

Immediately flush eyes with plenty of water. Seek medical attention if discomfort persists.

### Skin

If hot and molten MC-HS BLUE contact skin, cool rapidly with cold water. If MC-HS BLUE is stuck to skin, do not remove. And allow adhered MC-HS BLUE to come off naturally. Seek medical attention if burn occurs.

### Inhalation

ABS is not likely to be inhaled due to physical form.

### Ingestion

If a significant quantity has been swallowed, give plenty of water to dilute. Seek medical attention.



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## Fire Fighting Measures

**Autoignition Temperature** : 375°C (707°F)

**Unusual Fire, Explosion Hazards** : None Known.

**Hazardous Product of Combustion**

Carbon monoxide, hydrogen cyanide and nitrogen gasses will occur.

**Extinguishing Media** : Carbon dioxide, powder, dry chemical, foam or water spray.

**Firefighting Instructions**

Firefighters should wear self-contained breathing apparatus and full fire-fighting turn-out gear (bunker gear).

## Accidental Release Measures

**Personal precaution**

Sweeping to prevent fall.

**Environmental protection**

No special measures.

## Handling and Storage

**Handling**

Evacuate residue to prevent slipping hazard.

**Storage**

Store in well-ventilated area away from heat and sunlight. Dry storage.

## Exposure Controls / Personal Protection

**Engineering Controls**

A continuous supply of fresh air to the workplace together with removal of processing fumes through exhaust systems is recommended.

**Protective Equipment**

*Eyes:* Wear safety glasses with side shields should be sufficient for most processing and machining runs.

*Skin:* When thermal or melt processing, wear long pants, long sleeves and well insulated gloves.

*Respiratory:* Under normal conditions no special respiratory protection is required, however one recommends with work under increased temperatures without sufficient exhaust, use an approved air-purifying respirator.



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## Physical and Chemical Properties

<b>Appearance:</b>	Solid/Stock shape may be rod or plate.
<b>Colour:</b>	Blue
<b>Smell:</b>	None
<b>PH:</b>	Not applicable
<b>Water Solubility:</b>	Insoluble
<b>Boiling Point:</b>	Not applicable
<b>Melting Point:</b>	212~230°C (413~446°F)
<b>Vapor Pressure:</b>	Not applicable
<b>Ignition Temperature:</b>	450°C (842°F)
<b>Specific Gravity:</b>	1.15 ~ 1.17g/cm <sup>3</sup>

## Stability and Reactivity

### Chemical Stability

Stable under normal conditions of use and storage.

### Condition to Avoid

Heating above 300°C (572°F).

### Hazardous Reactions

Stable under normal conditions.

### Materials to Avoid

Strong acids and Oxidizing agents.

### Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide and Hydrogen cyanide.

## Toxicological Information

No specific information available on the product.

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## Ecological Information

### Environmental Information

This material is considered to be non-biodegradable.

### Aquatic Toxicity

Toxicity is expected to be low based on insolubility of polymer in water.

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## Disposal Considerations

Recycling is encouraged. Dispose in accordance with local regulations.

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## Transportation Information

This product is not subject to transport regulations.

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## Regulatory Information

Labelling in accordance to EEC directive

There is no need to mark this product according EU-regulations.

Section 313 Supplier Notification:

This product does not contain any toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372.

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## Other Information

This product is not intended for use in medical applications involving permanent implantation in the human body. The information contained herein is based on the present state of our knowledge. We don't suggest or guarantee that any hazards listed herein are the only ones that exist. PSR Industrial Ltd. makes no warranty of any kind concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and this material may aggravate the effects of other materials.

Users have the sole responsibility to determine the suitability of the materials of any use and the manner of use contemplated. Users must meet all applicable safety and health standards.