

# Safety Data Sheet

## IDENTIFICATION

**PRODUCT NAME** : PharmaMOP® Handle

**COMPANY** : Foamtec International Co., Ltd.

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Thungmahamek, Sathorn, Bangkok 10120 Thailand  
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**Material 1 : Polypropylene Homopolymer Pellets**

## 1.1 HAZARD IDENTIFICATION

### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE** : Translucent to white solid pellets

**IMMEDIATE CONCERNS** : Spilled material may present a slipping hazard. This product as shipped is not classified as a combustible dust; however, a combustible concentration of dust may occur if fines are suspended in air. Avoid contact with strong oxidizing agents. When working with the material at temperatures above the melting point, the material will begin to decompose producing fumes that can contain carbon dioxide, carbon monoxide, ketones, acrolein, aldehydes and other unidentified organic compounds that come from the breakdown of the material. Adequate room and exhauster ventilation should be provided to minimize exposures.

### POTENTIAL HEALTH EFFECTS

**EYES** : Process vapors may irritate eyes.

**SKIN** : Exposure to molten resin may cause thermal burns.

**INGESTION** : Not Applicable.

**INHALATION** : Process vapors may cause respiratory tract irritation.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES** : Irritation or redness.

**SKIN** : Not Applicable.

**INGESTION** : Not Applicable.

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**INHALATION** : Irritation of the nose, throat and respiratory tract.  
**ACUTE TOXICITY** : Process vapors may cause eye and respiratory tract irritation.  
**CHRONIC** : None Known.  
**CARCINOGENICITY** : None Known.  
**MUTAGENICITY** : None Known.

### REPRODUCTIVE TOXICITY

**REPRODUCTIVE EFFECTS** : None Known.  
**TERATOGENIC EFFECTS** : None Known.

**MEDICAL CONDITIONS AGGRAVATED** : None Known.

**ROUTES OF ENTRY** : Eye, Inhalation

**TARGET ORGAN STATEMENT** : None Known.

**CANCER STATEMENT** : This product is not considered to be a carcinogen by OSHA, IRAC or NTP.

**IRRITANCY** : Exposure to process vapors may cause eye and respiratory tract irritation.

**SENSITIZATION** : None Known.

**WARNING CAUTION LABELS** : Burn Risk – Avoid contact with molten resin. Explosion Risk – Prevent accumulation of dust particles. Slipping Risk – Keep walking surfaces free of spilled material.  
 Vapor Risk – Provide ventilation to avoid exposure to process vapors.

**COMMENTS HEALTH** : None.

**HEALTH HAZARDS** : Process vapors may cause eye and respiratory tract irritation.

## 1.2 COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	Wt.%	CAS #
Propylene Ethylene Copolymer	>95	9010-79-1
Stabilizers (trade secret)	<5	

**COMMENTS** : This product is not considered a hazardous material at temperatures below the melting point as determined by HMC Polymers according to the U.S. Occupational Safety and Health Act definitions and regulation, including the Hazard Communication Standard 29 CFR 1910.1200. This product is not considered a

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controlled substance by HMC Polymers according to Canada's WHMIS regulations. Threshold Limit Values (TLV) or Permissible Exposure Limit (PEL) values are not established. This material is not expected to cause physiologic impairment at low concentration. Until a specific TLV is adopted by ACGIH (American Conference of Governmental Hygienists), or an OSHA (Occupational Safety and Health Administration) PEL standard is issued, HMC Polymers suggests that this material be treated as a nuisance dust or particulate in accordance with the recommendations of ACGIH.

### 1.3 FIRST AID MEASURES

<b>EYES</b>	: Flush eyes with water for 15 minutes. Get medical attention.
<b>SKIN</b>	: Molten resin—If molten material comes in contact with the skin, cool under ice water or a running stream of water. DO NOT attempt to remove the material from the skin. Removal could result in severe damage. Get medical attention.
<b>INGESTION</b>	: Not Applicable.
<b>INHALATION</b>	: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>ANTIDOTES</b>	: Not Applicable.
<b>NOTES TO PHYSICIAN</b>	: None.
<b>ADDITIONAL INFORMATION</b>	: None.
<b>PHYSICAL HAZARDS</b>	: Spilled material may present a slipping hazard. Exposure to molten resin may cause thermal burns.

### 1.4 FIRE FIGHTING MEASURES

<b>AUTOIGNITION TEMPERATURE</b>	: Not Determined.
<b>EXTINGUISHING MEDIA</b>	: Use foam, carbon dioxide, or water spray when fighting fires involving this material.
<b>HAZARDOUS COMBUSTION PRODUCTS</b>	: Carbon dioxide, carbon monoxide, ketones, acrolein, aldehydes, unidentified organic compounds.
<b>EXPLOSION HAZARDS</b>	: Product as shipped is not a combustible dust. However, a combustible concentration of dust may occur when fines are suspended in air.

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- FIRE FIGHTING PROCEDURES** : Standard procedure for Class A fires.
- FIRE FIGHTING EQUIPMENT** : As in any fire, water self-contained pressure demand breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.
- SENSITIVE TO STATIC DISCHARGE** : Static discharge could be an ignition source for a combustible concentration of dust.
- SENSITIVITY TO IMPACT** : Not Applicable.

### 1.5 ACCIDENTAL RELEASE MEASURES

- SMALL SPILL** : Sweep up material and place in a disposal container.
- LARGE SPILL** : Vacuum or sweep up material and place in a disposal container.
- ENVIRONMENTAL PRECAUTIONS**
- WATER SPILL** : Keep pellets out from waterways.
- LAND SPILL** : Not Yet Determined.
- GENERAL PROCEDURES** : Vacuum or sweep up material and place in a disposal container.
- SPECIAL PROTECTIVE EQUIPMENT** : None.

### 1.6 HANDLING AND STORAGE

- GENERAL PROCEDURES** : Keep away from heat, sparks and flame.
- HANDLING** : Ground and bond containers when transferring material.
- STORAGE** : This product may react with strong oxidizing agents and should not be stored near such materials. Store boxed and bags of material in areas protected with automatic sprinklers.
- STORAGE TEMPERATURE** : 60 °C (140 °F) maximum.
- STORAGE TEMPERATURE NOTES** : Stored in a cool place below 60 °C, 140 °F.
- ELECTROSTATIC ACCUMULATION HAZARD**
- : Material may accumulate static charges during transfers. Ground and bond containers when transferring material.

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**Material 1 : Polypropylene Homopolymer Pellets**

## 1.7 EXPLOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS** : Provide adequate room ventilation. Provide adequate ventilation at the extruder to minimize exposure to process vapors. Eliminate ignition sources during repair and maintenance operations.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE** : Wear safety glasses with side shields (or goggles).

**SKIN** : When handling or processing resins at elevated temperatures or in a molten state, wear protective clothing over the skin to prevent contact.

**RESPIRATORY** : A respiratory protection program that meets OSHA 1910.134, ANSI Z88.2 and/or CSA Z94.4-93 requirements must be followed whenever workplace conditions warrant use of a respirator.

**PROTECTIVE CLOTHING** : When handling or processing resins at elevated temperatures or in a molten state, wear protective clothing over the skin to prevent contact.

**OTHER USE PRECAUTIONS** : Eyewash fountains and safety showers should be easily accessible.

## 1.8 PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE** : Solid  
**ODOR** : Slightly waxy odor  
**APPEARANCE** : Pellet  
**COLOR** : Translucent to white  
**MELTING POINT** : >1200 °C (248 °F)  
**SPECIFIC GRAVITY** : 0.88 TO 0.92

### COMMENTS

**PERCENT VOLATILE** : <0.4%

**WATER SOLUBILITY** : Negligible

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Material 1 : Polypropylene Homopolymer Pellets

## 1.9 STABILITY AND REACTIVITY

**STABLE** : Yes

**HAZARDOUS POLYMERIZATION** : No

**CONDITIONS TO AVOID** : Keep away from heat, sparks and flame.

**POLYMERIZATION** : Product will not undergo polymerization.

**HAZARDOUS DECOMPOSITION PRODUCTS** : At elevated temperature the material will begin to decompose, producing fumes that can contain carbon dioxide, carbon monoxide, ketones, acrolein, aldehydes, unidentified organic compounds.

**INCOMPATIBLE MATERIALS** : Oxidizing materials.

## 1.10 TOXICOLOGICAL INFORMATION

**GENERAL COMMENTS** : None Known

## 1.11 ECOLOGICAL INFORMATION

NOT APPLICABLE

## 1.12 DISPOSAL CONSIDERATIONS

NOT APPLICABLE

## 1.13 TRANSPORT INFORMATION

NOT APPLICABLE

## 1.14 REGULATORY INFORMATION

NOT APPLICABLE

## 1.15 OTHER INFORMATION

NOT APPLICABLE

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# Safety Data Sheet

**Material 2 : Propylene/ Ethylene Copolymer Pellets**

## 2.1 HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE** : Translucent to white solid pellets

**IMMEDIATE CONCERNS** : Spilled material may present a slipping hazard. This product as shipped is not classified as a combustible dust; however, a combustible concentration of dust may occur if fines are suspended in air. Avoid contact with strong oxidizing agents. When working with the material at temperatures above the melting point, the material will begin to decompose producing fumes that can contain carbon dioxide, carbon monoxide, ketones, acrolein, aldehydes and other unidentified organic compounds that come from the breakdown of the material. Adequate room and extruder ventilation should be provided to minimize exposures.

### POTENTIAL HEALTH EFFECTS

**EYES** : Process vapors may irritate eyes.

**SKIN** : Exposure to molten resin may cause thermal burns.

**INGESTION** : Not Applicable.

**INHALATION** : Process vapors may cause respiratory tract irritation.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES** : Irritation or redness.

**SKIN** : Not Applicable.

**INGESTION** : Not Applicable.

**INHALATION** : Irritation of the nose, throat and respiratory tract.

**ACUTE TOXICITY** : Process vapors may cause eye and respiratory tract irritation.

**CHRONIC** : None Known.

**CARCINOGENICITY** : None Known.

**MUTAGENICITY** : None Known.

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**Material 2 : Propylene/ Ethylene Copolymer Pellets**

**REPRODUCTIVE TOXICITY**

**REPRODUCTIVE EFFECTS** : None Known.

**TERATOGENIC EFFECTS** : None Known.

**MEDICAL CONDITIONS AGGRAVA** : None Known.

**ROUTES OF ENTRY** : Eye, Inhalation

**TARGET ORGAN STATEMENT** : None Known.

**CANCER STATEMENT** : This product is not considered to be a carcinogen by OSHA, IRAC or NTP.

**IRRITANCY** : Exposure to process vapors may cause eye and respiratory tract irritation.

**SENSITIZATION** : None Known.

**WARNING CAUTION LABELS** : Burn Risk – Avoid contact with molten resin. Explosion Risk – Prevent accumulation of dust particles. Slipping Risk – Keep walking surfaces free of spilled material. Vapor Risk – Provide ventilation to avoid exposure to process vapors.

**COMMENTS HEALTH** : None.

**HEALTH HAZARDS** : Process vapors may cause eye and respiratory tract irritation.

**PHYSICAL HAZARDS** : Spilled material may present a slipping hazard. Exposure to molten resin may cause thermal burns.

**2.2 COMPOSITION/INFORMATION ON INGREDIENTS**

CHEMICAL NAME	Wt.%	CAS #
Propylene Ethylene Copolymer	>95	9010-79-1
Stabilizers (trade secret)	<5	

**COMMENTS** : This product is not considered a hazardous material at temperatures below the melting point as determined by HMC Polymers according to the U.S. Occupational Safety and Health Act definitions and regulation, including the Hazard Communication Standard 29 CFR 1910.1200. This product is not considered a controlled substance by HMC Polymers according to Canada's WHMIS regulations. Threshold Limit Values (TLV) or Permissible Exposure Limit (PEL) values are not established. This material is not expected to cause physiologic impairment at low concentration. Until a specific TLV is adopted by ACGIH (American Conference of Governmental Hygienists), or an OSHA (Occupational Safety and Health Administration) PEL standard is issued, HMC Polymers suggests that this material be treated as a nuisance dust or particulate in accordance with the recommendations of ACGIH.

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**Material 2 : Propylene/ Ethylene Copolymer Pellets**

## 2.3 FIRST AID MEASURES

- EYES** : Flush eyes with water for 15 minutes. Get medical attention.
- SKIN** : Molten resin–If molten material comes in contact with the skin, cool under ice water or a running stream of water.DO NOT attempt to remove the material from the skin. Removal could result in severe damage. Get medical attention.
- INGESTION** : Not Applicable.
- INHALATION** : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- ANTIDOTES** : Not Applicable.
- NOTES TO PHYSICIAN** : None.
- ADDITIONAL INFORMATION** : None.

## 2.4 FIRE FIGHTING MEASURES

- AUTOIGNITION TEMPERATURE** : Not Determined.
- EXTINGUISHING MEDIA** : Use foam, carbon dioxide, or water spray when fighting fires involving this material.
- HAZARDOUS COMBUSTION PRODUCTS** : Carbon dioxide, carbon monoxide, ketones, acrolein, aldehydes,unidentified organic compounds.
- EXPLOSION HAZARDS** : Product as shipped is not a combustible dust. However, a combustible concentration of dust may occur when fines are suspended in air.
- FIRE FIGHTING PROCEDURES** : Standard procedure for Class A fires.
- FIRE FIGHTING EQUIPMENT** : As in any fire, water self-contained pressure demand breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.
- SENSITIVE TO STATIC DISCHARGE** : Static discharge could be an ignition source for a combustible concentration of dust.
- SENSITIVITY TO IMPACT** : Not Applicable.

## 2.5 ACCIDENTAL RELEASE MEASURES

- SMALL SPILL** : Sweep up material and place in a disposal container.
- LARGE SPILL** : Vacuum or sweep up material and place in a disposal container.

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**Material 2 : Propylene/ Ethylene Copolymer Pellets**

**ENVIRONMENTAL PRECAUTIONS**

- WATER SPILL** : Keep pellets out from waterways.
- LAND SPILL** : Not Yet Determined.

**GENERAL PROCEDURES** : Vacuum or sweep up material and place in a disposal container.

**SPECIAL PROTECTIVE EQUIPMEN**: None.

**2.6 HANDLING AND STORAGE**

**GENERAL PROCEDURES** : Keep away from heat, sparks and flame.

**HANDLING** : Ground and bond containers when transferring material.

**STORAGE** : This product may react with strong oxidizing agents and should not be stored near such materials. Store boxed and bags of material in areas protected with automatic sprinklers.

**STORAGE TEMPERATURE** : 60 °C (140 °F) maximum.

**STORAGE TEMPERATURE NOTES**: Stored in a cool place below 60 °C (140 °F).

**ELECTROSTATIC ACCUMULATION HAZARD**

: Material may accumulate static charges during transfers. Ground and bond containers when transferring material.

**2.7 EXPLOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS** : Provide adequate room ventilation. Provide adequate ventilation at the extruder to minimize exposure to process vapors. Eliminate ignition sources during repair and maintenance operations.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE** : Wear safety glasses with side shields (or goggles).

**SKIN** : When handling or processing resins at elevated temperatures or in a molten state, wear protective clothing over the skin to prevent contact.

**RESPIRATORY** : A respiratory protection program that meets OSHA 1910.134, ANSI Z88.2 and/or CSA Z94.4-93 requirements must be followed whenever workplace conditions warrant use of a respirator.

**PROTECTIVE CLOTHING** : When handling or processing resins at elevated temperatures or in a molten state, wear protective clothing over the skin to prevent contact.

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## Material 2 : Propylene/ Ethylene Copolymer Pellets

OTHER USE PRECAUTIONS : Eyewash fountains and safety showers should be easily accessible.

### 2.8 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	: Solid
ODOR	: Slightly waxy odor
APPEARANCE	: Pellet
COLOR	: Translucent to white
MELTING POINT	: >1200°C (248°F)
SPECIFIC GRAVITY	: 0.88 TO 0.92
COMMENTS	
PERCENT VOLATILE	: <0.4%
WATER SOLUBILITY	: Negligible

### 2.9 STABILITY AND REACTIVITY

STABLE	: Yes
HAZARDOUS POLYMERIZATION	: No
CONDITIONS TO AVOID	: Keep away from heat, sparks and flame.
POLYMERIZATION	: Product will not undergo polymerization.
HAZARDOUS DECOMPOSITION PRODUCTS	: At elevated temperature the material will begin to decompose, producing fumes that can contain carbon dioxide, carbon monoxide, ketones, acrolein, aldehydes, and unidentified organic compounds.
INCOMPATIBLE MATERIALS	: Oxidizing materials.

### 2.10 TOXICOLOGICAL INFORMATION

GENERAL COMMENTS	: None Known
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Material 2 : Propylene/ Ethylene Copolymer Pellets

## 2.11 ECOLOGICAL INFORMATION

NOT APPLICABLE

## 2.12 DISPOSAL CONSIDERATIONS

NOT APPLICABLE

## 2.13 TRANSPORT INFORMATION

NOT APPLICABLE

## 2.14 REGULATORY INFORMATION

NOT APPLICABLE

## 2.15 OTHER INFORMATION

NOT APPLICABLE

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**Material 3 : Aluminum Pipe**

## 3.1 HAZARDS IDENTIFICATION

**EFFECTS OF OVEREXPOSURE** : No adverse health effects when handling intact parts; wash hands before eating to prevent ingestion of minute amounts of metal. High exposure to aluminum dust or fume may cause irritation of eyes and respiratory system.

Breathing aluminum dust or welding fumes may cause shortness of breath, coughing, and fibrosis of the lungs.

Metals alloyed with aluminum vary in their toxicity and due precautions should be taken.

## 3.2 COMPOSITION/INFORMATION ON INGREDIENTS

ELEMENT	CAS	% RANGE	OSHA PEL(mg/m <sup>3</sup> )	ACCGIHLV(mg/m <sup>3</sup> )
Aluminum	7429-	92 - 99	5 respirable dust, 15 total dust	5 welding fume, 10 total dust
Sillicon	7440-	0 - 1.8	5 respirable dust, 10 total dust	10
Iron	7439-	0 - 1	10 dust	5 dust
Manganese	7439-	0 - 1.1	1	5
Magnesium	7439-	0 - 1.5	5 respirable dust, 10 total dust	1 fume, 5 dust
Zinc	7440-	0 - 8	5 respirable dust, 10 total dust	5 fume, 10 dust
Copper	7440-	0 - 6	0.1 fume, 1 dust	0.2 fume, 1 dust
Chromium	7440-	0 - 0.35	1	0.5 dust/fume

## 3.3 FIRST AID MEASURES

### EMERGENCY AND FIRST AID PROCEDURES

**INHALATION** : In all cases seek medical assistance.

**INHALATION** : Remove person with symptoms to fresh air, thoroughly shower, and change cloths.

**INGESTION** : Seek medical assistance.

**EYE** : Flush with clean water for thirty minutes.

**SKIN** : wash thoroughly with soap and water.

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**Material 3 : Aluminum Pipe**

### 3.4 FIRE FIGHTING MEASURES

NOT APPLICABLE : Not Determined.

### 3.5 ACCIDENTAL RELEASE MEASURES

NOT APPLICABLE

### 3.6 HANDLING AND STORAGE

NOT APPLICABLE

### 3.7 EXPLOSURE CONTROLS / PERSONAL PROTECTION

**RESPIRATORY PROTECTION** : (Specify type) Use a NIOSH approved toxic dust respirator when melting, welding, or grinding aluminum metal.

**VENTILATION** : Local exhaust ventilation is recommended when melting, welding, or grinding aluminum metal.

**EYE PROTECTION** : Wear appropriate eye protection when melting, welding, soldering, cutting. Or grinding aluminum metal.

**PROTECTIVE GLOVES** : Use cotton work gloves to prevent transfer of metal to skin. Use cut resistant gloves when handling metal chips.

**OTHER PROTECTIVE EQUIPMENT** : Wear clothing appropriate to the fabrication operation attempted with this product.

### 3.8 PHYSICAL AND CHEMICAL PROPERTIES

**MELTINGPOINT** : 890 to 1210° F

**BOILING POINT** : Not Applicable

**SPECIFIC GRAVITY** : 2.7 g/cc

**VAPOR PRESSURE** : Not Applicable

Aluminum is a dull silver - gray colored metallic solid, it has no odor, and is not soluble in water.

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**Material 3 : Aluminum Pipe**

## 3.9 STABILITY AND REACTIVITY

- STABILITY** : Aluminum metal is stable at room temperature.
- INCOMPATIBILITY** : (Material to avoid) Strong mineral acids, alkali bases, and halogenated compounds.  
Per NFPA # 491 M.
- HAZARDOUS DECOMPOSITION PF** : Flammable or toxic gases may evolve when aluminum is exposed to acids or bases.
- HAZARDOUS POLYMERIZATION** : Will not occur.
- CONDITIONS TO AVOID** : Do not use aluminum pipe and fittings to transport corrosive liquids.

## 3.10 TOXICOLOGICAL INFORMATION

NOT APPLICABLE

## 2.11 ECOLOGICAL INFORMATION

NOT APPLICABLE

## 3.12 DISPOSAL CONSIDERATIONS

NOT APPLICABLE

## 3.13 TRANSPORT INFORMATION

NOT APPLICABLE

## 3.14 REGULATORY INFORMATION

NOT APPLICABLE

## 3.15 OTHER INFORMATION

### SPECIAL PRECAUTIONS

**PRECAUTIONS TO BE TAKEN IN H** : Protect aluminum parts from moisture to avoid discoloration and corrosion.

**OTHER PRECAUTIONS** : Never place wet aluminum parts into the fabrication operation attempted with this product.

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**Material 3 : Aluminum Pipe**

**SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION** : (Specify type) Use a NIOSH approved toxic dustrespirator when melting, welding, or grinding aluminum metal.

**VENTILATION** : Local exhaust ventilation is recommended when melting, welding, or grinding aluminum metal.

**EYE PROTECTION** : Wear appropriate eye protection when melting, welding, soldering, cutting. Or grinding aluminum metal.

**PROTECTIVE GLOVES** : Use cotton work glove to prevent transfer of metal to skin. Use cut resistant gloves when handling metal chips.

**OTHER PROTECTIVE EQUIPMENT** : Wear clothing appropriate to the fabrication operation attempted with this product.

**SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASEDB OR SPILLED**

: Aluminum parts spills should constitute only a trip and fall hazard.

**WASTE DISPOSAL METHOD** : Aluminum metal is valuable and may be recycled by foundries and secondary metal smelters. Avoid melting aluminum chips covered with metal cutting oil since this will cause fugative emissions of dense smoke into the air.

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Issued By : <u>Siripomk.</u> (Engineer )	Checked By : <u>[Signature]</u> (Engineering Manager)	Approved By : <u>[Signature]</u> (Sr.Mgr. / GM.)