

<b>CHEIL INDUSTRIES</b> 62, Pyoungyo-dong, Yeosu-si, Jeollanam- do, South Korea TEL : (061) 689-1531 FAX : (061) 689-1535	<b>Material Safety Data Sheet</b>	File NO.	MSDS-WP-1069
		Issue Date	2011.07.28
	<b>GRADE : PC/ABS WP-1069</b>	Revised Date	2011.07.28
		Pages	1/8 page

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

**1.1. Product name:** : PC/ABS (Polycarbonate/Acrylonitrile-Butadiene-Styrene)

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

- A. Relevant identified uses:
- B. Uses advised against:

**1.3. Details of the supplier of the safety data sheet**

- A. Name of manufacture/supplier: CHEIL INDUSTRIES
- B. Address: 62, Pyoungyo-dong, Yeosu-si, Jeollanam-do, South Korea
- C. Telephone: +82-61-689-1531
- D. Fax: (061) 689-1535
- E. Email: chemical@samsung.com
- F. Website: www.samsungchemical.com

**1.4. Emergency telephone numbers**

- A. Telephone number: +82-61-689-1531


## 2. HAZARD IDENTIFICATION

**2.1. Classification of the substance or mixture**

- A. Classification(in accordance with EC No. 1272/2008): -
- B. Classification(in accordance with 1999/45/EC): Not classified

**2.2. Other hazards**

- This product (mixture) does not meet the PBT and/or vPvB criteria.
- NFPA rating: (0-4 steps) : Health=0, Flammability=1, Reactivity=0

	<b>GRADE : PC/ABS WP-1069</b>	File NO.	MSDS-WP-1069
		Pages	2/8 page

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Mixture

Information on ingredients

Chemical name	CAS No.	EINE CS No.	REACH No.	Concentration or concentration range (wt%)	Classification (EC No 1272/2008)	Classification (67/548/EEC)	Specific concentration limit/M-factor
PC	25971-63-5	-	01-2119457856-23-0024 01-2119548399-23-0001	55-70		-	-
ABS	9003-56-9		01-2119457861-32-0074 01-2119474195-34-0006 01-2119471988-16-0105	30-45			
* Other ingredients which do not contribute to classification of the product				Other additives (1.0% <)			

### 4. FIRST AID MEASURES

#### 4.1. Description of first aid measures

A. Ingestion:

- Material is not expected to be absorbed from the gastrointestinal tract.
- Rinse mouth with water
- Do not induce vomiting unless directed to do so by medical personnel.

B. Eye Contact:

- Immediately flush eyes with plenty of water while holding eyelids open.
- Seek medical attention if irritation persists.

C. Skin Contact:

- Remove contaminated clothing.
- Wash affected area with mild soap and water until chemicals are completely removed. (15-20minutes at least)
- Get medical attention if necessary.

D. Inhalation:

- Rinse mouth with water
- Move person to fresh air.
- Assist breathing if necessary.
- Consult a physician.

#### 4.2. Most important symptoms and effects, both acute and delayed


A. Acute effects:

- Inhalation: Acute exposure: May cause irritation.
- Skin: Acute exposure: May cause irritation.
- Eye: Acute exposure: May cause irritation.

B. Delayed effects: No relevant information found

#### 4.3. Indication of any immediate medical attention and special treatment needed

- Treatment may vary with condition of victim and specifics of incident.

	<b>GRADE : PC/ABS WP-1069</b>	File NO.	MSDS-WP-1069
		Pages	3/8 page

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### 5. FIRE FIGHTING MEASURES

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#### 5.1. Extinguishing media

- Suitable extinguishing media: Dry chemical, carbon dioxide, water spray and foam or water fog.
- Unsuitable extinguishing media: Not available

#### 5.2. Special hazards arising from the substrate or mixture

- Airborne dust may form flammable or explosive mixture with air.
- Toxic carbon compounds can be produced during combustion.

#### 5.3. Advice for fire-fighters

- Keep people away.
- Isolate fire area and de unnecessary entry.
- Cool surroundings with water to localize fire zone.
- Soak thoroughly with water to cool and prevent re-ignition.
- Protective fire fighting clothing (including fire fighting helmet, coat, pants, boots, and gloves), positive-pressure self contained breathing apparatus (SCBA).

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### 6. ACCIDENTAL RELEASE MEASURES

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#### 6.1. Personal precautions, protective equipment and emergency procedures

- Isolate area.
- Keep unnecessary personnel away.
- Avoid contact with skin, eyes and dust, gas inhalation.

#### 6.2. Environmental precautions


- Spills should be collected to prevent contamination of waterways.
- Keep out of irrigation ditches, sewers, and water supplies.
- If large spills, advise emergency services.
- Dispose in accordance with The Waste Control Law.

#### 6.3. Methods and material for containment and cleaning up

- Clean the ground, if dust is poured into the ground. If there is scattering, recover by local exhaust ventilation facilities.
- Keep unnecessary personnel away. Sweep up.

#### 6.4. Reference to other sections: Not available

- Refer to "Section 8 Exposure controls/personal protection" and "Section 13 Disposal consideration" as appropriate.

	<b>GRADE : PC/ABS WP-1069</b>	File NO.	MSDS-WP-1069
		Pages	4/8 page

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## 7. HANDLING AND STORAGE

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### 7.1. Precautions for safe handling

- Good housekeeping and controlling dusts are necessary for safe handling of products.
- Avoid friction and keep away from possible ignition sources.
- Earth the dust containers.
- Put on appropriate personal protective equipment.

### 7.2. Conditions for safe storage, including any incompatibilities

- Store in cool, dry and well-ventilated place

### 7.3. Specific end use(s): Not available

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### A. Guidelines

No guidelines are enacted by OSHA, ACGIH or NIOSH

### B. Ventilation

Provide supplementary local ventilation to control airborne levels

### C. Eye protection

Use safety glasses if there is a potential for exposure to particles

Provide eye washer near workplace

### D. Skin protection

Clean body-covering clothing should be needed

### E. Protective gloves

Wear chemical-resist gloves

### F. Respiratory protection

When respiratory protection is required for certain operations, use approved air-purifying respirator

**ACGIH** = American Conference of Governmental Industrial Hygienists

**NIOSH** = National Institute for Occupational Safety and Health

	<b>GRADE : PC/ABS WP-1069</b>	File NO.	MSDS-WP-1069
		Pages	5/8 page

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1. General information

- A. Appearance: Pellet in natural or compounded color
- B. Odor: Minimal

### 9.2. Important health, safety and environmental information:

- A. pH: Not applicable
- B. Boiling point/boiling range: Not applicable
- C. Melting point: 240-270 °C
- D. Flash point: Not applicable
- E. Flammability(solid, gas): Not available
- F. Explosive properties: Not available
- G. Oxidizing properties: Not available
- H. Vapour pressure: Not applicable
- I. Relative density: 1.0 ~ 1.2
- J. Solubility: Not available
- K. Water solubility: Insoluble
- L. Partition coefficient: Not applicable
- M. Viscosity: Not applicable
- N. Vapour density: Not applicable
- O. Evaporation rate: Not applicable

### 9.3. Other information:

- A. Autoignition Temperature: 300 °C

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## 10. STABILITY AND REACTIVITY

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- A. Chemical reactivity:** stable
- B. Conditions to avoid**
  - Avoid heat, flame, spark and other ignition sources
  - Avoid contact with incompatible materials
- C. Incompatibility with other materials**
  - Acids, flammable materials, base, halogenic carbon compounds, oxidizing materials
- D. Hazardous decomposition products**
  - Upon heating, cyanides, ammonia, acrylonitrile, styrene, carbon oxides, nitrogen

**E. Hazardous polymerization**

Not likely occurs

	<b>GRADE : PC/ABS WP-1069</b>	File NO.	MSDS-WP-1069
		Pages	6/8 page

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**11. TOXICOLOGICAL INFORMATION**

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- A. Acute oral toxicity:** LD50 has not been determined
- B. Acute inhalation toxicity:** LC50 has not been determined
- C. Semi-acute toxicity:** No relevant information found
- D. Chronic toxicity:** No relevant information found
- E. Mutagenicity:** No relevant information found
- F. Carcinogenicity:** No relevant information found
- G. Other toxicity:** No relevant information found

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**12. ECOLOGICAL INFORMATION**

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- A. Mobility:** This product has not been found to migrate through soils
- B. Persistence/degradability:** No relevant information found
- C. Bioaccumulation:** No relevant information found

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**13. DISPOSAL CONSIDERATIONS**

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- A. Regulatory information:** None
- B. Disposal method:**  
All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations

	<b>GRADE : PC/ABS WP-1069</b>	File NO.	MSDS-WP-1069
		Pages	7/8 page

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## 14. TRANSPORTATION INFORMATION

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- A. U.S. Department of Transportation (D.O.T.) Information**  
Not regulated as a hazardous material for transportation
- B. Canadian TDG Information**  
Not regulated as a hazardous material for transportation
- C. International Air Transport Association (IATA) Regulation**  
Not regulated as a hazardous material for transportation
- D. International Maritime Dangerous Goods (IMDG) Code**  
Not regulated as a hazardous material for transportation

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## 15. REGULATORY INFORMATION

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- A. U.S regulations**
    - TSCA:** on the list
    - TSCA 12(b) export notice:** not on the list
    - CERCLA 103 (40 CFR 302.4):** on the list
    - Acrylonitrile: 100 lbs rq
    - Butadiene, inhibited: 10 lbs rq
    - Styrene: 1000 lbs rq
    - SARA 302 (40 CFR 355.30):** on the list
    - Acrylonitrile: 10000 lbs rq
    - SARA 304 (40 CFR 355.40):** on the list
    - Acrylonitrile: 100 lbs rq
    - SARA 313 (40 CFR 372.65):** not on the list
    - SARA Hazard Category, SARA 311/312 (40 CFR 370.21):**  
Not to have met any hazard category
    - OSHA Hazard Communication Standard (29 CFR 1910.119):**  
This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.119
- TSCA** = Toxic Substance Control Act
- CERCLA** = Comprehensive Environmental Response, Compensation, and Liability Act
- SARA** = Superfund Amendments and Reauthorization Act

	<b>GRADE : PC/ABS WP-1069</b>	File NO.	MSDS-WP-1069
		Pages	8/8 page

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## 16. OTHER INFORMATION

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