

CHEIL INDUSTRIES 62, Pyoungyo-dong, Yeosu-si, Jeollanam- do, South Korea TEL : (061) 689-1531 FAX : (061) 689-1535	Safety Data Sheet	File NO.	MSDS-FD-1112
		Issue Date	2010.08
	GRADE : PC FD-1112	Revised Date	2010.08
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product name: PC(Polycarbonate) CAS No.: 25971-63-5

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:
- E. Email: starex@samsung.com
- F. Website: www.starex.co.kr

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):

2.2. Other hazards


This product (mixture) does not meet the PBT and/or vPvB criteria.

NFPA Ratings:

Health : 0

Fire : 1

Reactivity : 0

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Mixture Information on ingredients

Chemical name	CAS no	EINECS No.	REACH No.	Concentration or concentration range (wt%)	Classification (ECNo1272/2008)	Classification (67/548/EEC)	Specific concentration limit/M-factor
Polycarbonate	25971-63-5			98.4~99.0 %			
Other Additives				1.0~1.6%			
* Other ingredients which do not contribute to classification of the product							

4. FIRST AID MEASURES

4.1. Description of first aid measures

A. Ingestion:

- Material is not expected to be absorbed from the gastrointestinal tract.
- 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.
(15-20 minutes at least)
- Get medical attention if necessary.

D. Inhalation:

- 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 : May cause irritation
- B. Delayed effects : No relevant information found

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5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

- Dry chemical, carbon dioxide, water spray and foam or water fog.

5.2. Special hazards arising from the substance or mixture

- Toxic carbon compounds can be produced during combustion.

5.3. Advice for fire-fighters : Keep people away.

- Cool surroundings with water to localize fire zone.
- Soak thoroughly with water to cool and prevent re-ignition.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Isolate area. Keep unnecessary personnel away.

6.2. Environmental precautions

- Keep out of irrigation ditches, sewers, and water supplies.
- Spills should be collected to prevent contamination of waterways.

6.3. Methods and material for containment and cleaning up

- Keep unnecessary personnel away. Sweep up.

6.4. Reference to other sections

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

7. HANDLING AND STORAGE


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.

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

8.1. Control parameters : No guidelines are enacted by OSHA, ACGIH or NIOSH.

* ACGIH = American Conference of Governmental Industrial Hygienists

NIOSH = National Institute for Occupational Safety and Health

8.2. Exposure controls

A. Appropriate engineering controls:

A system of local and/or general exhaust is recommended to keep employee exposures above the Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. The use of local exhaust ventilation is recommended to control emissions near the source.

B. Individual protection measures, such as personal protective equipment:

Respiratory Protection: Use the respirator be given official approval by Korea Occupational Safety & Health Agency. Under conditions of frequent use or heavy exposure, Respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.

C. Environmental Exposure Controls: Not available

8.3. DNEL, PNEC, OEL, EQS and DMEL values : Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

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 available

B. Boiling point/boiling range: Not available

C. Melting point: 100~250

D. Flash point: : Not available

E. Flammability(solid, gas): : Not available

F. Explosive properties: : Not available

G. Oxidizing properties: : Not available

H. Vapour pressure: : Not available

I. Relative density: 1.18~1.25

J. Solubility: :

Soluble : acetone, methyl-ethyl ketone, dichloromethane

Insoluble : alcohol, aliphatic compound solvents, mineral oil

K. Water solubility: Insoluble


L. Partition coefficient: Not available

M. Viscosity: Not available

N. Vapour density: Not available

O. Evaporation rate: Not available

9.3. Other information:

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10. STABILITY AND REACTIVITY

10.1. Stability : Stable

10.2. Possibility of Hazardous Reaction : Not likely occurs

10.3. Conditions to avoid

- Avoid heat, flame, spark and other ignition sources.
- Avoid contact with incompatible materials.

10.4. Materials to avoid

- Acids, flammable materials, base, halogenic carbon compounds, oxidizing materials.

10.5. Hazardous decomposition products

- Upon heating, cyanides, ammonia, acrylonitrile, styrene, carbon oxides, nitrogen.

11. TOXICOLOGICAL INFORMATION

11.1. Potential acute health effects

- A. Inhalation: May cause irritation
- B. Ingestion: Npt available
- C. Eye contact: May cause irritation
- D. Skin contact: May cause irritation

11.2. Toxicity and irritation:

- A. Acute toxicity:
 - oral: LD50 has not been determined
 - dermal: LD50 has not been determined
 - inhalation: LD50 has not been determined
- B. Skin corrosion/irritation: May cause irritation
- C. Eye corrosion/irritation: May cause irritation
- D. Respiratory sensitization: May cause irritation
- E. Skin Sensitization: Not available
- F. Carcinogenicity: No relevant information found
- G. Mutagenicity: No relevant information found
- H. Reproductive toxicity: Not available
- I. Specific target organ toxicity(single exposure): Not available
- J. Specific target organ toxicity(repeated exposure): Not available
- K. Aspiration hazard: May cause irritation

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity: Not available


12.2. Mobility: Not available

12.3. Persistence/degradability: Not available

12.4. Bioaccumulative potential: Not available

12.5. Results of PBT assessment: Not available

12.6. Other adverse effects: Not available

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13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations

13.2. Additional information:

14. TRANSPORTATION INFORMATION

14.1. UN number: Not available

14.2. UN proper shipping name : Not available

14.3. Transport hazard class(es) : Not available

14.4. Packing group : Not available

14.5. Environmental hazard : Not available

14.6. Special precautions for user related to transport or transportation measures:

Not available

15. REGULATORY INFORMATION

15.1. Labelling in accordance with 1999/45/EC : Not available

15.2. 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

15.3. Chemical Safety Assessment: Not conducted

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16. OTHER INFORMATION

16.1. Full text of classification(R- and H-Phrases): Not Available

16.2. Update history:

Date of issue: 2010.08

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16.3. Reference:

16.4. Others

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