

Revised on August 1, 2016

**SAFETY DATA SHEET****1. PRODUCT AND COMPANY IDENTIFICATION**

Product name: Eslon Hard Coat DC Plate AH-XXX-AS (PMMA): Cutting Chips  
 "XXX" is three digits number which shows color of product.

Chemical product name: Laminate mainly consisted of PMMA layer

Company name: Sekisui Chemical Co., Ltd.

Address: 75 Nojiri, Ritto, Shiga 520-3081, Japan

Responsible Department: Urban Infrastructure and Environmental Products Company  
 Shiga-Ritto Plant, Technology Department

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Recommended use and restriction on use: Static dissipative sheet

**2. HAZARDS IDENTIFICATION**

Physical and chemical hazards:	Flammable solid Pyrophoric solid Substances and mixture which, in contact with water, emit flammable gases	Out of category Out of category Out of category
Health hazards:	Unclassifiable	
Environment hazards:	Unclassifiable	
GHS label element symbol:	Unclassifiable	
Signal word:	Unclassifiable	
Danger/hazards information:	No data available	
Cautions (Cutting chips):	Avoid inhalation of cutting chips, dust and the like. Wear specified protective equipment. Thoroughly wash hands after handling. Do not eat/drink and smoke at the place where dust generation is observed. Avoid discharge to the environment.	
First aid measures:	IN INHALED, remove the victims to fresh air and keep at rest in a position comfortable for breathing. In the case of exposure or possible exposure, get medical advice. When feeling sick, get medical advice.	
Storage:	Store the product while taking measures to prevent leakage of the cutting chips.	
Disposal:	Dispose by entrusting to a waste disposal contractor who is licensed by local governor.	

**3. COMPOSITION/INFORMATION OF INGREDIENTS**

Classification of single component or mixture:	Mixture	
Components:		Content
	PMMA	99% and more
	Antimony doped tin oxide	0.01 - 0.2%

**4. FIRST AID MEASURES**

If cutting chips were inhaled:	- Remove the victims to fresh air and keep at rest in a position comfortable for breathing. - Get medical advice, if necessary.
If cutting chips were on skin:	- Wash the skin promptly. - Get medical advice, if necessary.
If cutting chips were in eyes:	- Wash carefully with water for several minutes. - Get medical advice, if necessary.
If cutting chips were swallowed:	- Rinse mouth - Get medical advice, if necessary.

**5. FIRE FIGHTING MEASURES**

Fire extinguishing media:	- Small fire: Dry chemical powder, carbon dioxide, water - Large Fire: Water, water spraying, normal foam extinguisher
Specific danger/hazards:	- Note that this product generates carbon monoxide and/or methyl methacrylate monomer by incomplete combustion and/or thermal decomposition.
Specific firefighting method:	- Remove the products from the fire area if not so dangerous. - In the case of huge fire, use unmanned hose holder or monitor nozzles for firefighting. - If such work is not possible, evacuate from the area and let the fire burned out.
Protection of the firefighters:	- During the firefighting work, wear air respirator and chemical protective clothing.

**6. ACCIDENTAL RELEASE MEASURES**

Cautions for personnel:	When dust is generated by cutting the products, wear proper protective equipment to prevent exposure to eyes/skin and inhalation. (Refer to the description of "8. EXPOSURE CONTROL/PERSONAL PROTECTION")
Cautions to the environment:	Be careful not to cause environmental effect by discharging to the rivers and the like.
Recovery:	When dust is generated by cutting the products, sweep and recover them into a vacant container, and dispose of them later.
Prevention of secondary disaster:	When dust is generated by cutting the products, well clean the floor frequently to prevent occurrence of slippery floor surface.

## 7. HANDLING AND STORAGE

### Handling (cutting chips)

- Engineering measures: - Take engineering measures described in "8. EXPOSURE CONTROL/PERSONAL PROTECTION," and wear protective equipment.
- Local ventilation/general ventilation: - Local ventilation/general ventilation shall be done according to the description of "8. EXPOSURE CONTROL/PERSONAL PROTECTION."
- Cautions for safe handling: - Do not inhale or swallow the cutting chips.  
 - Conduct exhaust ventilation to keep the concentration in air equal to or lower than the exposure limit. (When dust is generated by cutting the products.)  
 - Wash hands well after handling.  
 - Handle only outdoors or in well ventilated area.  
 - Avoid discharge to the environment. (When dust is generated by cutting the products.)
- Avoid contact: - Refer to the description of "10. STABILITY AND REACTIVITY."

### Storage (cutting chips)

- Engineering measures: Keep fire away.
- Storage conditions: No specific engineering measure is necessary.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### Control Concentration:

	Control concentration	Permissible concentration (permissible exposure limit, biological exposure index)	
		Japan Society for Occupational Health (2010 edition)	ACGIH (2010 edition)
Tin Compounds	0.1mg/m <sup>3</sup> (as Sn)	-	TWA 0.1mg/m <sup>3</sup> (as Sn)
Antimony Compound	-	-	TWA 0.5mg/m <sup>3</sup> (as Sb)

- Engineering measures: - Install eye-washing equipment and safety shower for the work of storing and handling the product. (When dust is generated by cutting the products.)  
 - Handling shall be done in an area with a general ventilation equipment. (When dust is generated by cutting the products.)  
 - When dust is generated in a process of high temperature handling, install ventilation equipment to keep the concentration of air polluting substance equal to or lower than the control concentration permissible exposure limit.

### Protective equipment

- Respiratory protective equipment: - Use personal respiratory equipment, if required.  
 - In the case of insufficient ventilation, wear proper respiratory protective equipment. (When dust is generated by cutting the products)
- Hand protective equipment - Wear personnel hand protective equipment, if required.

- Eye protective equipment: - Wear personnel eye protective equipment, if required.
- Skin and body protective equipment: - Wear personnel protective clothing and protective face shield, if required.
- Hygiene measure: - Wash hands well after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical property:	Solid
State:	Molded sheets (At cutting, cutting chips and dust are generated.)
Color:	Designated color
Odor:	No odor
pH:	No data available
Melting point:	Gradually soften around 80°C or higher
Boiling point, initial boiling point and boiling range:	Not applicable
Flash point	No data available
Combustibility or explosion limit:	Not applicable
Vapor pressure:	No data available
Vapor density:	No data available
Specific gravity (density):	1.19g/cm <sup>3</sup>
Solubility:	No data available
n-Octanol/water portion coefficient:	No data available
Spontaneous ignition:	No data available
Odor threshold value:	No data available
Evaporation rate:	No data available
Viscosity:	No data available

## 10. STABILITY AND REACTIVITY

Stability:	Stable under the normal conditions
Possibility of hazardous reaction:	No information available
Condition to avoid:	Protect from excessive heat. Keep away from sources of ignition and heat.
Incompatible hazardous substances:	No information available
Dangerous decomposition product:	Thermal decomposition or combustion may emit MMA monomer, carbon monoxide, or carbon dioxide

**11. TOXICOLOGICAL INFORMATION**

Acute toxicity Oral:	Unclassifiable because of insufficient data
Dermal:	Unclassifiable because of insufficient data
Inhalation:	Unclassifiable because of insufficient data
Skin corrosion/irritation:	Unclassifiable because of insufficient data
Serious eye damage/irritation:	Unclassifiable because of insufficient data
Respiratory sensitization:	Unclassifiable because of insufficient data
Skin sensitization:	Unclassifiable because of insufficient data
Germ cell mutagenicity:	Unclassifiable because of insufficient data
Carcinogenicity:	Unclassifiable because of insufficient data
Reproductive toxicity:	Unclassifiable because of insufficient data
Specific target organ systemic toxicity (single exposure):	Unclassifiable because of insufficient data
Specific target organ systemic toxicity (repeated exposure):	Unclassifiable because of insufficient data
Aspiration respiratory hazardous:	Unclassifiable because of no data

**12. ECOLOGICAL INFORMATION**

Hazardous to aquatic environment (acute):	Unclassifiable because of insufficient data
Hazardous to aquatic environment (chronic):	Unclassifiable because of insufficient data

**13. DISPOSAL CONSIDERATION**

Residual waste	<ul style="list-style-type: none"> <li>- At the disposal, comply with related laws and local government standards.</li> <li>- Dispose by entrusting to a waste disposal contractor who is licensed by local governor.</li> <li>- When entrusting the disposal of the waste to a contractor, the danger/hazards should be clearly notified to them in advance.</li> </ul>
Contaminated containers and packaging (cutting chips)	Not applicable

**14. TRANSPORT INFORMATION**

International regulations	Marine transport control:	Non-hazardous material
	Air transport control:	Non-hazardous material
Domestic regulations	Land transport control:	Non-hazardous material
	Marine transport control:	Non-hazardous material
	Air transport control:	Non-hazardous material
Specific safety measurement (cutting chips)	<ul style="list-style-type: none"> <li>- Keep fire away.</li> <li>- Avoid scattering the cutting chips caused by container damages (the container for cutting chips) and the like.</li> </ul>	

**15. REGULATORY INFORMATION**

Industrial Safety and Health Law:	Hazardous substances whose name shall be notified. (Article 57-2, Enforcement Ordinance Article 18-2, Appended Table 9) (Tin compound, Antimony compound)
Law for Pollutant Release and Transfer Register (PRTR Law):	Class 1 designated chemical substance (Antimony compound)
Fire Service Act	Designated flammable goods / plastics
Water Pollution Control Law:	Not applicable
Air Pollution Control Law:	Not applicable
Soil Contamination	Not applicable
Waste Disposal and Public Cleansing Law:	Not applicable
Labor Standards Law:	Not applicable

**16. OTHER INFORMATION**

References:	NITE GHS Classification Data Notification Product MSDSs
Cautions:	<ul style="list-style-type: none"> <li>- GHS classification is not applicable to Eslon DC Plate, because they are molded products. However the GHS classification is applied, the fine dust particles are generated during handling like cutting.</li> <li>- This information can be revised by the new knowledges and test data information.</li> <li>- The descriptions herein are prepared based on the generally available information and our in-house information, however they do not cover all the information available at present concerning the chemical and technology. Therefore we do not intend to guarantee anything concerning the matter.</li> <li>- Cautions are for normal handling. For special handling, it is the obligation of each user of the product to provide adequate safety measures suited for applications and usages.</li> </ul>