



# Material Safety Data Sheet (MSDS)

## Unex Surfaces

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Version: 1

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product Name

- Unex Surfaces

#### 1.2 Product Name

-Application: Kitchen top, counter top, interior wall, etc.  
-Uses advised against: Do not use with strong acid or base chemicals

#### 1.3 Detail of the supplier of the safety data sheet

##### ◆ Manufacturer

-Name: Hyundai L&C  
-Address: East Central Tower, 1077 Cheonho-daero, Gangdong-Gu, Seoul 05340  
-Telephone: +82-2-63647816  
-Emergency telephone: +82-2-63647816  
-Fax No.:

##### ◆ Supplier

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### 2. HAZARD IDENTIFICATION

#### 2.1 Classification of the substance or mixture

-Not Classified  
-The hazards of this product are associated with its fabrication. Such as routing and sanding can generate dust.  
-Exposure to high concentration of dust or inhalation may cause respiratory irritation and sneeze.

#### 2.2 Label elements

-Pictogram- none  
-Signal word- none  
-Hazard statement- none  
-Precautionary statement

**Prevention: Not Applicable, Response: Not Applicable, Storage: Not Applicable, Disposal: Not Applicable**

-NFPA rating

**Heath: Not applicable, Flammability: Not applicable, Reactivity: Not applicable**

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical	Usual Name	CAS NO.	Concentration range(%)
Unsaturated Polyester Resin	UPR	N/A	>25.5%
Acrylic Resin	PMMA	N/A	<4.5%
Aluminum Trihydrate	ATH	21645-51-2	<70%
Pigment	Pigment	N/A	<1%
Additives	Additives	N/A	<1%

### 4. FIRST AID MEASURES

#### 4.1 Eye Contact

-Rinse thoroughly with plenty of water for over 15 minute and call a doctor immediately.

#### 4.2 Skin Contact

-No hazard. Wash with soap and water.

#### 4.3 Inhalation

-If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Follow instruction of doctor.

#### 4.4 Ingestion

-If vomiting, rinse mouth and follow instruction of doctor.

### 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing Media

-Suitable extinguishing media : Dry chemical, carbon oxide, water spray and foam

-Unsuitable extinguishing media : Not available

#### 5.2 Special hazards arising from the substance or mixture

-Hazardous Product of Combustion : Carbon Oxides (CO, CO<sub>2</sub>), Various Hydrocarbons.

-Risk of Explosion or Fire : Unex surfaces has fire resistance but it has small risk of fire when it exposure to heat or fire.

#### 5.3 Advice for fire-fighters

-Protective fire fighting clothing (including fire fighting helmet, coat, pants, boots and glove), Air supplied respirator.

### 6. ACCIDENTAL RELEASE MEASURES

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

-Proper personal protective equipment should be utilized when handing this material.

#### 6.2 Environmental precautions

-AIR: Avoid generation of dust and fine dust dispersed in the air

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

-Small amount: Brush into dry container or bag.

-Large amount: Avoid generating dust in the air. Cleaning dust using vacuum cleaner and keep it into dry container.

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

-When fabricating such as cutting and sanding, wear a proper protective gears.

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

-Store in 15-23 °C temp and dry condition inside or warehouse on flat ground.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

- Occupational Exposure Limits: Not available
- TWA: Not available
- STEL: Not available
- 0.3mg/m<sup>3</sup> OSHA TWA (Inhalable particles): Not available
- 0.1mg/m<sup>3</sup> OSHA TWA (Respirable particles): Not available
- ACGIH: Not available
- Biological exposure limit: Not available
- \**ACGIH = American Conference of Government Industrial Hygienists*

### 8.2 Appropriate engineering controls

- Not available

### 8.3 Individual protection measures, such as personal protective equipment

- ◆ Respiratory protection
  - Dust mask when exposure on high concentration of dust*
- ◆ Eye Protection
  - Wear safety glasses*
- ◆ Hand Protection
  - Wear protective gloves*
- ◆ Shin protection
  - Protective clothing*

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Appearance

- Physical state: Solid (Sheet form)
- Color: Varies

### 9.2 Odor: Odorless

### 9.3 Odor Threshold: Not applicable

### 9.4 PH: Not applicable

### 9.5 Boiling / Freezing point: Not applicable

### 9.6 Boiling point / boiling range: Not applicable

### 9.7 Flash point: No data

### 9.8 Evaporation rate: Not applicable

### 9.9 Flammability (solid, gas): Not applicable

### 9.10 Upper/lower flammability or explosive limits: Not applicable

### 9.11 Vapour pressure: Not applicable

### 9.12 Water solubility: Not soluble in water

### 9.13 Vapour density: Not applicable

### 9.14 Relative density: Not applicable

### 9.15 Partition coefficient: Not applicable

### 9.16 Autoignition: Not applicable

### 9.17 Decomposition: Not applicable

**9.18 Viscosity: Not applicable**

**9.19 Explosive properties: Not applicable**

## **10 STABILITY AND REACTIVITY**

### **10.1 Stability and Possibility of Hazardous Reaction**

-Stability: Stable under room temperature and normal pressure

-Possibility of Hazardous Reaction: Hazardous polymerization will not occur.

*Dust may be flashed under ignition temp*

### **10.2 Conditions to avoid**

-Avoid extreme heat

### **10.3 Materials to avoid**

-Acids, base, solvent, heat, spark, flame

### **10.4 Hazardous decomposition products**

-Carbon oxides, smog.

## **11 TOXICOLOGICAL INFORMATION**

### **11.1 Information on toxicological effects**

◆ Respiratory system

*-High concentration may cause difficulty with breathing.*

◆ Ingestion

*-Organic reaction with digestive organs may cause irritation.*

◆ Eye, Skin

*-Particles may cause irritation.*

### **11.2 Toxicity and irritation**

◆ Acute toxicity

#### **Oral**

-Acute exposure: Organic reaction with digestive organs may cause irritation.

-Chronic overexposure: Not available

#### **Dermal**

-Acute exposure: Particles may cause irritation.

-Chronic overexposure: Not available

#### **Inhalation**

-Acute exposure: High concentration may cause difficulty with physical breathing.

-Chronic overexposure: Not available

◆ Skin corrosion/irritation

*-Not available*

◆ Eye corrosion/irritation

*-Not available*

◆ Respiratory sensitization

*-Not available*

◆ Skin sensitization

*-Not available*

◆ Carcinogenic

*-Not available*

◆ Germ cell mutations

*-Not available*

◆ Reproductive toxicity

*-Not available*

◆ Specific target organ toxicity (single exposure)

*-Not available*

◆ Specific target organ toxicity (repeated exposure)

*-Not available*

◆ Aspiration hazard

*-Not available*

### **11.3 Toxicological effects**

**Product based information:**

No toxicological information is available for the finished product. This product is generally believed to be inert based on available data.

**Ingredient based information:**

**Note:** This information are pertaining to a compromised/disrupted product due to operations and processing such as sanding, sawing, grinding, burning etc.

## **12 ECOLOGICAL INFORMATION**

### **12.1 Ecotoxicity**

- ◆ Fish  
-No data
- ◆ Invertebrate  
-No data
- ◆ Algae  
-No data

### **12.2 Persistence/ degradability**

- Persistence: No data
- Degradability: No data

### **12.3 Bioaccumulative potential**

- Biodegradability: No data
- Bioaccumulation: No data

### **12.4 Mobility in soil**

- Not available

### **12.5 Other adverse effects**

- Not available

## **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 Require attention**

- The user of this product must properly characterize the waste/ container generated from the use of this product in accordance with all applicable federal, state and/or local laws and regulations in order to determine the proper disposal of the waste in accordance with all applicable federal, state and/or local laws and regulations.
- Dispose of waste in accordance with local regulation

## **14 TRANSPORTATION INFORMATION**

### **14.1 UN number**

- Not applicable

### **14.2 UN proper shipping name**

- Not applicable

### **14.3 Transport hazard class(es)**

- Not applicable

### **14.4 Packing group**

- Not applicable

### **14.5 Environmental hazards**

- Not available

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

- Not available

## 15 REGULATORY INFORMATION

### 15.1 Occupation safety and health acts

-Not available

### 15.2 Chemical safety assessment

-Not available

### 15.3 Safety control of dangerous substances act

-Not available

### 15.4 Wastes control act

-Not available

### 15.5 Foreign legal

- ◆ Persistent organic pollutants control act

--*Not available*

- ◆ EU

-*Confirm classified result: Not classified*

-*Hazard words: Not applied*

-*Prevention measure: Not applied*

- ◆ U.S. regulations

-*OSHA Hazard Communication Standard(29 CFR 1910.119): Not applicable*

-*CERCLA 103(40CFR302.4): Not applicable*

-*EPCRA 302(40CFR355.30): Not applicable*

-*EPCRA 304(40CFR355.40): Not applicable*

-*EPCRA 313(40CFR372.65): Not applicable*

- ◆ Rotterdam convention material

-*Not applicable*

- ◆ Stockholm convention material

-*Not applicable*

- ◆ Montreal Protocol Material

-*Not applicable*

## 16 OTHER INFORMATION

### 16.1 Issue date

2013-01-01

### 16.2 Revision date

2020-11-09