

# MATERIAL SAFETY DATA SHEET



L & C

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

- Product Name : HANSTONE  
( HANSTONE is a registered trademark of HYUNDAI L&C Corp.)
- Manufacturer/Supplier : HYUNDAI L&C CORP.  
13F, East Central Tower, 1077, Cheonho-daero, Gangdong-gu, Seoul,  
05340, Korea  
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- EMERGENCY TELEPHONE NUMBER :  
TEL : 82-2-6364-7835
- TELEPHONE NUMBER FOR INFORMATION :  
82-2-6364-7835 ( HYUNDAI L&C CORP, KOREA )

## 2. COMPOSITION / INFORMATION ON INGREDIENTS


Component	% By Weight	CAS #
Synthetic resin (Unsaturated Polyester)	5-20	-
Quartz (SiO <sub>2</sub> , <0.1mm)	10-50	14808 - 60 - 7
Quartz (SiO <sub>2</sub> , 0.1-10mm)	10-90	14808 - 60 - 7
Colorant	< 1	Trade secret
Additives	< 1	Trade secret

## 3. HAZARD IDENTIFICATION




**HAZARD:**  
H372 Causes damage to lungs through prolonged or repeated exposure (inhalation).

Classification according to directive 1999/45/EC



R20 Harmful by inhalation  
R48 Danger of serious damage to health by prolonged exposure.  
Xn



**PREVENTION:**  
P260 Do not breathe dust generated in the cutting, grinding and polishing processes.  
P264 Wash face and hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P284 Wear respiratory protection for particles (P3).

**FIRST AID MEASURES**  
P314 Get medical advice/attention if you feel unwell.  
P501 Dispose of remains in accordance with local regulation.

S22 Do not breath the dust.  
S38 Use personal protective equipment P3.

- Most important hazards : This product is not classified as dangerous
- Specific hazards : Operations such as sawing, routing, drilling and sanding can generate dust.  
: Dust generated during handling of quartz surfacing products can contain particles of quartz  
: Overexposure to airborne quartz can cause silicosis.
- ※ Particles of quartz ( dust )
 

Inhalation	short-term	: stimulus
	long-term	: stimulus , lose in weight ,breathe hard , silicosis
Eye contact	short-term	: stimulus
	long-term	: eye damage
Skin contact	short-term	: stimulus
	long-term	: no information available
Ingestion	short-term	: stimulus
	long-term	: no information available

#### 4. FIRST AID MEASURES

- Inhalation : Move to fresh air
- Eye contact : Rinse immediately with plenty of water and seek medical advice.
- Skin contact : Not applicable
- Ingestion : Not applicable

#### 5. FIRE HAZARD DATA

- EXTINGUISHING MEDIA : Water, Dry Chemical , CO<sub>2</sub> , Foam
- FIRE FIGHTING INSTRUCTIONS : Keep personnel removed and upwind of fire  
: Wear self-contained breathing apparatus.

#### 6. ACCIDENTAL RELEASE MEASURES

- SAFEGUARD ( PERSONNEL ) :  
  
NOTE: Review FIRE FIGHTING INSTRUCTION and HANDLING (PERSONNEL) sections before proceeding with clean-up ,  
Use appropriate PERSONAL PROTECTIVE during clean up
- SPILL CLEAN UP : Not applicable

#### 7. STORAGE AND HANDLING

- HANDLING ( PERSONNEL ) :  
Avoid inhalation of dust and smoke generated from the fabrication process.  
Wear protective equipment when working (P3 mask, eye/ear protection, etc).  
Prevent dust and fire from occurring through wet fabrication at all times.
- STORAGE :  
Store in a cool place.  
Avoid exposure under direct sunlight  
Do not lay slabs onto slabs  
Do lay the slab onto flat lack

#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- ENGINEERING CONTROLS ( VENTILATION ):  
Use ventilation that is adequate to keep employee exposure to air borne concentrations below exposure limits.  
National occupation exposure limits :  
0.3mg/m<sup>3</sup> OSHA TWA ( total dust ) - Quartz  
0.1mg/m<sup>3</sup> OSHA TWA ( airborne particles of respirable size ) - Quartz
- PERSONAL PROTECTION :  
Protective equipment : EYE/FACE/HAND PROTECTION  
Wear safety protector during operations such as sawing, sanding, drilling or routing.  
Respiratory protection for P3 type particulates according to EN 143:2001 and its revisions  
EN 143/AC 2002, EN 143/AC 2005, including working with water as a dust-reducing agent during the preparation of Hanstone.

## 9. PHYSICAL AND CHEMICAL DATA

- Safety Data
  - Decomposition temperature : None
  - Water solubility : Insoluble
- Appearance as delivered
  - Form : Solid , sheets and shaped articles
  - Color : Various
  - Odor : None ( Negligible odor )
  - Physical condition :
- Flash point : Not applicable
- Auto ignition temperature : Not applicable

## 10. STABILITY AND REACTIVITY

- Stability : Stable
- Conditions to avoid : Stable at normal condition
- Incompatibility(Materials to avoid) : None reasonably foreseeable
- Hazardous decomposition product :
  - In the event of fire carbon monoxide hydrocarbon smoke may be produced
  - Fumes of metal oxides and mica particles could also be released.

## 11. TOXICOLOGICAL INFORMATION

- Operations such as sawing, routing, drilling and sanding can generate dust.
- High concentrations of dust can irritate eyes, nose and respiratory system and cause coughing and sneezing.
- Dust generated during handling of quartz surfacing products can contain particles of quartz ( crystalline silica).
- Overexposure to airborne quartz can cause silicosis.
- Symptoms of silicosis include coughing, difficulty in breathing and progressive impairment of lung function.
- Epidemiology studies show limited evidence of an lung cancer in occupations involving exposure to crystalline silica(quartz), such as stone cutters and granite industry workers.

## 12. ECOLOGICAL INFORMATION

- BIODEGRADATION : No information available
- BIOACCUMULATION : No information available
- AQUATIC TOXICITY : No information available ( The product is insoluble and sinks in water )
- When properly handled and used in accordance with guidelines our experience suggests there no negative effects to be expected upon the environment.

**13. DISPOSAL CONSIDERATIONS**

- Waste should be disposed of in a place certified to accept such materials in accordance with federal, state, and local regulations.
- Contaminated packaging : Not applicable

**14. TRANSPORT INFORMATION**

- Product is not classified for any mode of transportation

**15. REGULATORY INFORMATION**

- This product does not require labeling
- ※ Quartz U.S.A

CERCLA103(40CFR302.4)	: none
SARA302 (40CFR355.30)	: none
SARA304 (40CFR355.40)	: none
SARA313 (40CFR372.65)	: none
OSHA313(29CFR1910.119)	: none
SARA311/312 (40CFR370.21)	: acute : no
	chronic : yes
	fire : no
	reactivity : no


**16. OTHER INFORMATION**

None

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**END OF MSDS**