

MATERIAL SAFETY DATA SHEET



Date of Issue : Jan 1st. 2011

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

- Product Name : HANWHA HANSTONE
(HANSTONE is a registered trademark of HANWHA L&C Corp.)
- Manufacturer/Supplier : HANWHA L&C CORP.
HANWHA Bldg.,1 Janggyo-dong, Jung-gu, Seoul, Korea
TEL : 82-2-729-2051
FAX : 82-2-729-1447
- EMERGENCY TELEPHONE NUMBER: 82-2-729-2051
- TELEPHONE NUMBER FOR INFORMATION: 82-2-729-2051 (HANWHA L&C CORP, KOREA)

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	% By Weight	CAS #
Synthetic resin	< 10	-
Quartz (Crystalline silica)	> 40 ~ 90	14808 - 60 - 7
Colorant	< 1	Trade secret
Additives	< 1	Trade secret

3. HAZARD IDENTIFICATION

- 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 , CO₂, 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 • SPILL CLEAN UP: Not applicable		
7. STORAGE AND HANDLING		
• HANDLING (PERSONNEL) Avoid breathing dust generated during sawing, sanding, routing or drilling Avoid breathing fumes generated during sawing, sanding, routing or drilling • 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/m³ OSHA TWA (total dust) – Quartz 0.1mg/m³ 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.

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

- **Flash point** : Không có dữ liệu

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

Các hoạt động như cưa, định tuyến, khoan và chà nhám có thể tạo ra bụi.

- 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 if silicosis include coughing, difficulty breathing, wheezing 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.