

MATERIAL SAFETY DATA SHEET

HANWHA L&C CORPORATION

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE COMPANY

- Product Name : HANWHA HANSTONE
(HANSTONE is a registered trademark of HANWHA L&C Corp.)
- Manufacture/Supplier : HANWHA L&C Corp.
7_8F, CENTER1 Bldg, 26, Uljiro 5-gil, Jung-gu, Seoul,100-210, Korea
TEL : 82-2-6364-7831~5
- EMERGENCY TELEPHONE NUMBER :
TEL : 82-2-6364-7831~5
- TELEPHONE NUMBER FOR INFORMATION :
TEL : 82-2-6364-7831~5

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. HARZARDS INDENTIFICATION

- Most important : 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
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

- SAFEGUARDE (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 (PERSONNEK) :

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 exposed direct to the sunlight

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

- Autoignition 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 hydrocarbons 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.

- Overexposure to airborne quartz can cause silicosis.

- Symptoms of silicosis include coughing, difficulty breathing, wheezing and progressive impairment of lung function.

- Epidemiology studies show limited evidence of an increased risk of 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 are 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 INFORMATIONS

- Product is not classified for any mode of transportation

15. REGULATORY INFORMATIONS

- This product does not require labelling
- ※ 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