

# MATERIAL SAFETY DATA SHEET

Date of Issue: June 30th, 2005

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

PRODUCT NAME: HANSTONE QUARTZ BY HANWHA SURFACES  
MANUFACTURER/SUPPLIER: Hanwha Living and Creative Corporation  
Hanwha Bldg., 1 Changgyo-dong, Chung-gu, Seoul, Korea  
T: 82-2-729-205 F: 82-2-729-1447  
EMERGENCY TELEPHONE NUMBER: 888-426-9421  
TELEPHONE NUMBER FOR INFORMATION: 888-426-9421

## 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. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS: This product is not classified as dangerous

- However, sawing, routing, drilling, and/or sanding can generate dust.
- Dust generated during handling of this product can irritate eyes, nose and respiratory passages and cause sneezing and coughing.
- Dust generated during handling of quartz surfaces products can contain particles of crystalline silica.
- Overexposure to airborne crystalline silica can cause silicosis, symptoms of which include difficulty in breathing, wheezing, coughing, and impairment of lung function.

## 4. FIRST AID MEASURES

INHALATION : Move to fresh air. Give artificial respiration if not breathing. Give oxygen if breathing is impaired. Call a physician.  
EYE CONTACT : Rinse immediately with plenty of water. Call a physician.  
SKIN CONTACT : Not applicable  
INGESTION : Not applicable

## 5. FIRE HAZARD DATA

EXTINGUISHING MEDIA : Water, Dry Chemical, CO<sub>2</sub>, Foam

FIRE FIGHTING INSTRUCTION : 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 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 extreme weather/temperature conditions.  
Avoid exposure under direct sunlight  
Never store material flat.  
Store materials on storage system to provide full support of the entire length and width of the material that are perfectly leveled.

## 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.

## 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 :	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 hydrocabos 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 BREATHING, WHEEZING AND PROGRESSIVE IMPAIRMENT OF LUNG FUNCTION.
- EPIDEMIOLOGY STUDIES SHOW LIMITED EVIDENCE 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 MATERIAL 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 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

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS: "HanStone" products

This information is based on technical information deemed reliable and is subject to revision as additional information is made available.