

17 Hampden Road, Nedlands, WA 6009

PHONE: (08) 9386 5477

EMAIL: info@edartsupplies.com.au ONLINE: www.edartsupplies.com.au

ABN: 55 785 850 803

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## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE CHEMICAL AND THE MANUFACTURER

Product Name : Colored Sand

Chemical Name: Crystalline Silica (Quartz)

Suggested usage and limitation:

Manufacturer Information : Shine Chin Co., Ltd.

Changhua County, TAIWAN  
R. O. C.

### 2. HAZARDS IDENTIFICATION

Emergency Overview:

This silica sand material is made from nearly pure white rocks, grinded and sieved to become small particles. It is not flammable, combustible or explosive. It does not cause burns or serve skin or eye irritation. A single exposure will not result in serious adverse health effects.

Crystalline silica(Quartz) is not classified to be an environment hazard.

Hazard pictograms:

Signal word:

Hazard Statements: eye contact: Crystalline silica (quartz) may cause abrasion of cornea.

May be harmful if by inhalation or ingestion.

Precautionary statements: Handle with gloves if necessary.

Wearing facial mask if necessary.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Characterization: Colored sand

Ingredients	CAS No	Concentration (percentage)
Crystalline silica(Quartz)	14808607	97.3%
Poly Vinyl Alcohol	9002895	1.0%
Poly Vinyl Alcohol	25213245	0.8%

Titanium Dioxide	13463677	0.7%
Aluminum Oxide	1344281	0.2%

#### 4. FIRST AID MEASURES

Inhalation	Not specific firstaid is necessary since the adverse health effects associated with exposure to crystalline silica (Quartz) from chronic exposures. If inhalation happened, move the patient to a place with fresh air.
Skin Contact:	Not applicable.
Eye Contact:	Immediately wash plenty of water, and obtain medical attention if still irritating.
Ingestion	The patient should drink plenty of water immediately, and call a physician or poison control center immediately. Never give anything by mouth to or induce vomiting in person who is convulsing or unconscious.

#### 5. FIREFIGHTING MEASURES

Colored Sand is not flammable, combustible or explosive.

#### 6. ACCIDENTAL RELEASE MEASUREMENT

Personal precautions: Use personal protective equipment if necessary. Spilled material may cause floor to be slippery. Exercise caution.

Methods for cleaning up : Use dustless methods (Vacuum) and place into closable container for disposal.

Handling precautions	No special request.
Storage conditions	No special request.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Construction control: Operated with ventilation system.

Control factors:

Hazardous ingredients	Personal protection equipment	Concentration permit			LC <sub>50</sub>	LD <sub>50</sub>
		TWA	STEL	CEILING		
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Respirators protection	the facial mask is necessary.
Hands protection	rubber or plastic gloves (depends).
Eyes protection	chemical safety goggles (depends).
Skin and body protection	-

Hygiene practices: Obey the operation rule and prevent unnecessary contact, be careful during handling, and wash hands after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearances	Colored depend on pigment, granular, crushed or ground.
Odor	- None
Specific gravity (water=1)	2.65 (20 )
Boiling point (at 760mmHg)	> 100
Melting point	> 100
Solubility in water (% by wt.)	- insoluble in water
Vapor pressure (at 20 )	N.A.
Vapor density (air=1)	not applicable
pH value	N.A.
Decomposition temp.	-
Flashing point	none -
Explosion Limited	UEL : - LEL : -

Partition coefficient (noctanol/water, log Kow) : 10. STABILITY AND REACTIVITY

## 11. TOXICOLOGICAL INFORMATION

Stability: Colored Sands is Stable.  
Toxicity: Inhalation: slight amount of monomer vapor will irritate the breath system.  
Possible hazards under normal condition: None.  
Skin: continuous contact will make skin reddish.  
Eyes: irritation None  
Conditions to avoid: Ingestion: Vomiting  
Material to avoid: Contact with powerful oxidizing agents, such as fluorine, chlorine  
Regional effects: Tri fluoride and oxygen difluoride.  
Hazardous decomposition products: Silica will dissolve in hydrofluoric acid and produce a  
Sensitization: corrosive gas – silicon Tetrafluoride.  
Chronic toxicity or long term toxicity:

Special effects: -

## 12. ECOLOGICAL INFORMATION

Eco toxicity: LC50 -

EC50 -

BCF -

Persistence and degradability: NO applications.

Bi o accumulative potential: Non accumulative

Other adverse effects: -

## 13. DISPOSAL CONSIDERATIONS

Material may be landfilled where permitted under local government regulations.

## 14. TRANSPORT INFORMATION

Colored Sand is not a hazardous material for purp oses of transportation.

Not classified as dangerous goods as per IATA DGR.

## 15. REGULATORY INFORMATION

Road and traffic safety regulation.

## 16. OTHER INFORMATION