

CMP SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Name	: NON-SKID SAND		
SDS Number	: 24599900-001		
Product Type	: Non Slip material		
Intended Use	: Coating		
Company Name	: CHUGOKU MARINI	E PAINTS (S) PTE. LTD.	
Address	: 21 Tuas Street, Singap	ore 638458	
Charge Section	: Technical Dept.		
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SECTION 2. HAZARDS IDENTIFICATION

Material elements categorized as "Not classified" or "Classification not possible" by GHS are not described.

[GHS CLASSIFICATION]

Carcinogenicity Specific target organ toxicity (single exposure) : Category 1 (respiratory organs) Specific target organ toxicity (repeated exposure) : Category 1 (respiratory organs, kidney) : Category 1

[GHS LABEL ELEMENTS]

Pictograms



Signal word

Danger

[HAZARD STATEMENTS]

- H350 : May cause cancer
- H370 : Causes damage to respiratory organs, through.
- H372 : Causes damage to respiratory organs, kidney through prolonged or repeated exposure.

[PRECAUTIONARY STATEMENTS]

<Prevention>

- P260 : Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 : Wash hands and exposed body thoroughly after handling.
- P273 : Avoid release to the environment.
- P280 : Wear protective gloves, glasses and respirator.

<Response / First Aid Measures>

P301+P310+P330+P331	: IF SWALLOWED : Immediately call a doctor/physician. Rinse mouth. Do NOT	
	induce vomiting.	
P305+P351+P338+P337+P313	: IF IN EYES : Rinse cautiously with water for minutes. Remove contact lenses, if	
	present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.	
P303+P361+P352	: IF ON SKIN (or hair) : Remove/Take off immediately all contaminated clothing.	
	Wash with plenty of soap and water.	
P302+P333+P313	: IF ON SKIN : If skin irritation or rash occurs, get medical advice/attention.	
P314	: Get medical attention/advice if you feel unwell.	
* Refer to "5. FIRE-FIGHTING MEASURES" in the 5th clause of this SDS.		

<Storage>

P403+P235 : Store in well-ventilated place. Keep cool.

<Disposal>

P501

: Dispose of contents/container in accordance with local/regional/national/international regulations.

<Other Hazard Information>

* No Data Available

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Specific of chemical material : Mixture

Hazard Component

Ingredient name	CAS No.	Content
		Weight %
Quartz	14808-60-7	90 - 100

SECTION 4. FIRST-AID MEASURES

EYE CONTACT

- * Rinse eyes and eyelids for 15 minutes or more with pure running water immediately.
- * Consult a doctor as soon as possible.

SKIN CONTACT

- * Remove immediately contaminants with clothes, etc..
- * Wash skin thoroughly with fresh water, soap, or skin detergent. Do not use solvents and thinners.
- * Receive diagnosis of a doctor, when change is looked at by appearance or when painful.
- * Remove immediately all contaminated clothing.

INHALATION

- * If inhaled large quantity of a steam, gas and like, move a patient to the fresh air place immediately and keep him warm and quiet. If breathing is irregular or stopped, respire artificially. Care a patient not to vomit. Get medical attention.
- * If inhaled a steam, gas and like or feels worse, move a patient to the quiet and fresh air place, and consult a doctor.

INGESTION

- * If swallow accidentally, keep a patient in a quiet place and consult a doctor immediately.
- * Care a patient not to swallow a vomit.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Normal fire extinguishant

Extinction method

* This material is not combustibility.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- * Wear appropriate protective equipments (Glove, protective mask, apron and goggles)
- * Collect spills in closed container and keep in safe place.
- * Ensure to comply with the requirement of the authorities when disposing the contaminated cloths and equipments.
- * Absorb spills with non combustible materials such as dry sand and soil, and collect in closed containers. For extensive spillage, prevent outflow with land elevation.
- * Do not let spills to drains, rivers and sea. Special care must be taken for environmental protection.

SECTION 7. HANDLING AND STORAGE

Handling

- * Handle carefully in a well ventilated place.
- * Keep container closed tightly.
- * Wear overall clothes and goggles to protect skin, membrane and eyes.
- * After handling product, wash a face and hands carefully, and do not bring contaminated protective equipments into a rest station or canteen.
- * Wear appropriate protective clothes and implements, and provide sufficient ventilation when working in a confined place.
- * Do not handle if allergies were acting up in past years.

Storage

- * Avoid direct sunlight.
- * Store in a well ventilated place.
- * Store containers against descent and fall in earthquake etc..

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ingredient name	Exposure Limit	ACGIH (TLV)
Quartz	-	0.025mg/m3

Equipment requirement

- * Install the equipment of the explosion-prevention type.
- * Install the exhaust to avoid pile up of a steam.
- * Provide earthing leads to equipment for transportation, loading/unloading, and stirring of a liquid.
- * Handling place should be free from high temperature and the source of ignition.
- * When working inside, provide a local ventilation to prevent an exposure to harmful circumstance and mist of coating material.
- * When working in the confined tank, provide a ventilation to change air sufficiently in the entire tank.

Protection

Respiratory protection

* Wear the gas mask for organic gas.

Eye Protection

* Wear an eye shield or goggle.

Skin protection

- * Wear the appropriate gloves, which are not permeable with the organic solvent or chemicals.
- * Wear cloths which do not expose skin directly. Preferably the cloths are not permeable with chemicals.



Others protection

* During working for electrostatic-coating, wear appropriate antistatic shoes.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Powder (inorganic material)
Colour	: No Data Available
Odour	: None
Odour Threhold	: No Data
PH (value)	: No Data
Melting / Freezing Point	: Not Applicable
Boiling Point	: No Data Available
Flash Point	: No Data Available
Evaporation Rate	: No Data
Flammability (Solid, Gas)	: Not Applicable
Explosion limits	: No Data Available
(LEL, UEL)	
Vapour Pressure	: No Data Available
Density	: 2.60 - 2.70 g/ml
Solubility (ies)	: Not Applicable
Partition coefficent	: Not Applicable
(n-octanol / water)	
Auto-Ignition Temperature	: No Data Available
Decomposition Temperature	e : Not Applicable
Viscosity	: Not Applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity

* Specific test data related to reactivity is not available.

Chemical Stability * Stable under normal condition.

Possibility of hazardous reactions * No dangerous reaction in a normal condition.

Conditions to avoid

* No data available.

Incompatible materials

* No data available.

Hazardous decomposition products * Generate low-molecular weight monomers such as CO and NOx.

Other danger information

* No data available.

SECTION 11. TOXICOLOGICAL INFORMATION

Material elements categorized as "Not classified" or "Classification not possible" by GHS are not described.

Harmful information on substance

- <Quartz> Acute toxicity Carcinogenicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)
- : No data available
- : Category 1A
- : Category 1 (respiratory organs)
- : Category 1 (respiratory organs, kidney)

Harmful information on the product

The safety test is not done as the product.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity	
Quartz	No Data Available

12.2 Persistance and Degradability

Quartz	No Data Available
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12.3 Bioaccumulative Potential

Quartz	No Data Available

12.4 Mobility in Soil

Quartz

No Data Available

12.5 PBT & vPvB Assesment

* Not Available

SECTION 13. DISPOSAL CONSIDERATIONS

- * Paint ingredient, incinerated ash and used container should be disposed by recognized companies which are licensed as industrial waste disposal by prefectural governor.
- * Do not dispose the sewage to the ground and drains after washed a container, instrument equipment, and like.
- * Incineration waste and waste water should be disposed in accordance with the regulations and legislations for Waste Disposal, or entrust such business to the approved licensed parties.

SECTION 14. TRANSPORT INFORMATION

- * UN number
- : No Data Available : No Data Available * UN proper Shipping name
- Transport Hazard Class (es)
- * Packing group
- * Evironmental Hazards
- Transport in Bulk (according
- to Annex II of MARCOL 73/78 and IBC Code)
- Special Precaution for Users
- : Make sure there are no damage, corrode and leak on the product container. Products should be also prevented from falling, loosening or tumbling during transit. Packing, labeling and transport take place according to appropriate regulation.

SECTION 15. REGULATORY INFORMATION

Standard on Hazard communication for hazardous chemicals and dangerous goods (SS586-2008)

: No Data Available

: No Data Available

: Not Applicable

: Marine Pollutant (No)

- Chemical Weapons Prohibition Act
- * Control of Vectors and Pesticides Act
- * Environmental Protection and Management Act
- * Environmental Protection and Management (Hazardous Substances) Regulations
- * Environment Public Health Act
- * Fire Safety Act
- * Fire Safety (Petroleum and Flammable Materials) Regulations
- * Hazardous and Port Authority of Singapore (Dangerous Goods, Petroleum and Explosives) Regulations
- * Misuse of Drugs Act
- * Prevention of the Sea Act
- * Strategic Goods (Control) Act
- * Workplace Safety and Health Act
- Workplace Safety and Health (General Provisions) Regulations

SECTION 16. OTHER INFORMATION

Main Quotation Literature

- * Japan Paint Manufacturers Association "Chemical Data Base for SDS (paints)"
- * Japan Paint Manufacturers Association "a Guidebook to GHS Label and SDS"
- * Raw-material maker "Safety Data Sheet"
- * Database of National Institute of Technology and Evaluation (NITE)

Notice to Reader

This Safety Data Sheet is offered for your information regarding hazard of product, caution against handling and regulatory information. Please observe following items and ensure health, safety and environment conservation.

- * Correspond to rules and regulations in the country/the region used.
- * The information in this SDS should be provided to all user/employer including your related companies that handle this product.
- * The information in this SDS is based on the present state of our acknowledge at the date of issue. However, we do not assume any liability whatsoever for the accuracy or completeness of the information contained herein. This SDS may be amended in the newly acquired knowledge.
- * The data given here do not signify any warranty with regards to the product's properties.
- * Make sure safety by user, if user applies without recognized method by CHUGOKU MARINE PAINTS, LTD.(CMP).
- * Please consult CMP before exporting this product outside Singapore/Malaysia.

Abbreviations and Acronyms

* GHS	- Globally Harmonized System of Classification and Labeling of Chemicals
* SDS	- Safety Data Sheet
* CAS	- Chemical Abstracts Service
* ACGIH	- American Conference of Governmental Industrial Hygienists
* TLV	- Threshold Limit Value
* ppm	- part per million
* LEL	- Lower Explosive Limit
* UEL	- Upper Explosive Limit
* LD50	- Lethal Dose, 50% or Median Lethal Dose
* LC50	- Lethal Concentration, 50% or Median Lethal Concentration
* EC50	- Half Maximal Effective Concentration
* IC50	- Half Maximal Inhibitory Concentration
* BOD	- Biological Oxygen Demand
* COD	- Chemical Oxygen Demand
* Log Pow	- Octanol-Water Partition Coefficient

- Log Pow * Log Kow - Octanol-Water Partition Coefficient
- Bio Concentration Factors * BCF