



# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY

Trade Name : UMEGUARD SX Grey CS-614 N6, BASE  
 SDS Number: 14777300202-34  
 Product Type : Epoxy Resin Paints, Base, 2 packages  
 Intended use : Coating  
 Company Name : CHUGOKU MARINE PAINTS, LTD.  
 Address : 1-7 Meijishinkai, Otake, Hiroshima, 739-0652, Japan  
 Charge Section : Environmental and Quality Assurance Dept.  
 Telephone Number : 0120-85-4931 FAX Number : 0827-59-0018  
 Mail Address : cmpmsds@cmp.co.jp  
 Issue Date : Sep.09, 2008  
 Revision Date : Oct.28, 2015

## 2. HAZARD IDENTIFICATION

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

### GHS CLASSIFICATION

Flammable liquids : Category 3  
 Skin corrosion/irritation : Category 2  
 Serious eye damage/eye irritation : Category 2  
 Carcinogenicity : Category 2  
 Reproductive toxicity : Category 1  
 Specific target organ toxicity, single exposure  
 : Category 1 (respiratory organs, liver, central nervous system, kidney)  
 Specific target organ toxicity, repeated exposure  
 : Category 1 (respiratory organs, nervous system)  
 Aquatic environmental hazards/Acute : Category 2  
 Aquatic environmental hazard/Long-term : Category 3

### GHS LABEL ELEMENTS

#### Pictograms



#### Signal word

**Danger**

### HAZARD INFORMATION

- \* Flammable liquid and vapour
- \* Causes skin irritation
- \* Causes serious eye irritation
- \* Suspected of causing cancer
- \* May damage fertility or the unborn child
- \* Causes damage to respiratory organs, liver, central nervous system, kidney, anesthetic action, respiratory tract irritation, through inhalation.
- \* Causes damage to respiratory organs, nervous system through prolonged or repeated exposure .

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- \* Toxic to aquatic life
- \* Harmful to aquatic life with long lasting effects

**PRECAUTIONARY STATEMENT(S)****Preventive measures**

- \* Keep away from ignition sources such as heat/sparks/open flame. - No smoking.
- \* Keep container tightly closed.
- \* Take precautionary measures against static discharge.
- \* Use explosion-proof electrical/ventilating/lighting/equipment by the manufacturer/supplier or the competent authority.
- \* Use only non-sparking tools.
- \* Do not breathe dust/fume/gas/mist/vapours/spray.
- \* Avoid release to the environment.
- \* Wash hands and exposed body thoroughly after handling.
- \* Wear protective gloves, glasses and respirator.

**First Aid Measures**

- \* IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a doctor/physician.
- \* IF SWALLOWED: Immediately call a doctor/physician. Rinse mouth. Do NOT induce vomiting.
- \* 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.
- \* IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.
- \* If on skin and skin irritation or rash occurs, get medical advice/attention.
- \* Wash/Decontaminate removed clothing before reuse.
- \* Get medical attention/advice if you feel unwell.
- \* Refer to "5.FIRE-FIGHTING MEASURES" in the 5th paragraph of this MSDS.

**Storage**

- \* Store in cool/well-ventilated place.

**Disposal**

- \* Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other Hazard information**

- \* It is a flammable liquid and explosive if a steam piles up.
- \* It may possibly cause intoxication of organic-solvent.
- \* It is possible to cause rash and inflammation if it adheres to the skin.

**3.COMPOSITION INFORMATION**

Specific of chemical material :Mixture

**Hazards component**

Ingredient name	CAS No.	METI		Content Weight %	PRTR Class	ISHL 57-2 No.
		No.	Class*			
Titanium dioxide	13463-67-7	1-558	-	1 - 5		191
Xylene	1330-20-7	3-3	PCSA	15	I	136
Ethylbenzene	100-41-4	3-28	PCSA	10	I	70
Butyl acetate	123-86-4	2-731	-	1 - 5		181
2-Propanol, 1-methoxy-	107-98-2	2-404	-	1 - 5		496

Note: No expression about type of the PRTR law when the content of the chemical or element is less than threshold level according to the PRTR law.

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Class\*: Classification by Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

## 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.

## 5.FIRE-FIGHTING MEASURES

### Extinguishing media

Carbon dioxide fire extinguisher, Foam fire extinguisher, Powder fire extinguisher, Dry sand

### Extinction method

- \* Wear appropriate protective equipments (heat-resistant clothes and like).
- \* Remove any inflammable things promptly from the circumference.
- \* Use the adequate fire extinguisher.
- \* Fight a fire from the windy side.
- \* Cool off closed container exposed at high temperature with water mist.
- \* Do not use water (stream of water from a hose, high pressure water) for fire extinguishing.

## 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 requirements of the authorities when disposing the contaminated clothes and equipments.
- \* Clear away all sources of ignition, heat, and inflammable materials immediately.
- \* Provide a suitable fire extinguisher for a precaution of a fire.
- \* Collect spills with the appropriate tools which are equipped to prevent sparks caused by impact and static electricity.
- \* 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.

## 7. HANDLING AND STORAGE

### Handling

- \* Handle carefully in a well ventilated place.
- \* Keep container closed tightly.
- \* No ignition and no spark. Do not handle a high temperature material in the outskirts.
- \* Provide earthing leads and an explosion-prevention for electrical equipments and installations.

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- \* Use adequate tools to prevent sparks.
- \* 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.
- \* Wear antistatic clothes and shoes.

**Storage**

- \* Avoid direct sunlight.
- \* Store in a well ventilated place.
- \* Keep away from fire and a heat source.
- \* Store containers against descent and fall in earthquake etc..

**8.EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Ingredient name	Exposure limit	ACGIH(TLV-TWA)
Titanium dioxide	-	10mg/m3
Xylene	50ppm	100ppm
Ethylbenzene	20ppm	100ppm
Butyl acetate	150ppm	150ppm
2-Propanol, 1-methoxy-	-	100ppm

**Equipment requirement**

- \* Install the equipment of the explosion-prevention type.
- \* Install the exhaust to avoid pile up of a steam.
- \* Provide earthing leads to equipments 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.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance :Liquid

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Odour	:Solvent odour
Boiling Point	:120 - 144.4 deg C
Vapour Pressure	:1333 Pa(32 deg C)
Density	:1.384g/ml - 1.484g/ml
PH (Value)	:Not applicable
Flash Point	:23.5 deg C
Ignition Point	:278 deg C
Explosion limits (LEL,UEL)	:(lower limit) 1.1%, (upper limit) 15%

## 10. STABILITY AND REACTIVITY

### Stability

\* Stable under normal condition.

### Possibility of hazardous reactions

\* No reaction is generated particularly.

### Conditions to avoid

\* No data available.

### Incompatible materials

\* Nothing special

### Hazardous decomposition products

\* Generate low-molecular weight monomers such as CO and NOx.

### Other hazardous information

\* Nothing special

## 11. TOXICOLOGICAL INFORMATION

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

### Harmful information on substance

Titanium dioxide

Acute toxicity

No data available

Serious eye damage/eye irritation:Category 2B

Xylene

Acute toxicity

LD50(Oral):3500mg/kg

LC50(Inhalation):29.08mg/l(4hours)

Skin corrosion/irritation:Category 2

Serious eye damage/eye irritation:Category 2A

Reproductive toxicity:Category 1B

Specific target organ toxicity, single exposure:Category 1(respiratory organs,liver,central nervous system,kidney)

Specific target organ toxicity, single exposure:Category 3(anesthetic action)

Specific target organ toxicity, repeated exposure:Category 1(respiratory organs,nervous system)

Ethylbenzene

Acute toxicity

LD50(Oral):3500mg/kg

LC50(Inhalation):17.2mg/l(4hours)

Serious eye damage/eye irritation:Category 2B

Carcinogenicity:Category 2

Reproductive toxicity:Category 1B

Specific target organ toxicity, single exposure:Category 2(central nervous system)

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Specific target organ toxicity, single exposure:Category 3(respiratory tract irritation)

Aspiration hazards:Category 1

Butyl acetate

Acute toxicity

LC50(Inhalation):2000ppm ( 1hours)

Serious eye damage/eye irritation:Category 2B

Specific target organ toxicity, single exposure:Category 2(respiratory organs,central nervous system)

2-Propanol, 1-methoxy-

Acute toxicity

No data available

Serious eye damage/eye irritation:Category 2B

Specific target organ toxicity, single exposure:Category 3(anesthetic action)

#### **Harmful information on the product**

The safety test is not done as the product.

## **12. ECOLOGICAL INFORMATION**

\* Pay a careful attention to leakage and waste disposal, as it may seriously influence to the environment.

\* No data available for the product.

#### **Harmful information on substance**

Titanium dioxide

No data available for the composition.

Xylene

Aquatic environmental hazards/Acute:Category 2

Aquatic environmental hazard/Long-term:Category 2

Ethylbenzene

Aquatic environmental hazards/Acute:Category 1

Butyl acetate

Aquatic environmental hazards/Acute:Category 3

2-Propanol, 1-methoxy-

No data available for the composition.

## **13. DISPOSAL CONSIDERATION**

\* 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.

\* Paint and wastes should be disposed in small pieces by the open type of incinerator to have absorbed them with diatomite. (The incinerator should be installed the necessary equipments against dioxin)

## **14. TRANSPORT INFORMATION**

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, labelling and transport take place according to appropriate regulation.

\* UN number: 1263

\* UN class: Flammable liquids (class 3)

\* Packing group: III

\* Marine Pollutant: No

\* Emergency response guide number: 128

## 15. REGULATORY INFORMATION

- \* Fire Service Law: Class 4-2 (Non-water soluble liquid) Dangerous grade division III
- \* Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.: Priority Chemical Substance Assessment
- \* Ordinance on Prevention of Hazard Due to Special Chemical Substances, Group-2 Special Organic Solvents (The sum total content of Special organic solvents and Organic solvents exceeds 5%.)  
Ethylbenzene more than 1.0%
- \* Industrial Safety and Health Law Article 57-2 (ISHL) (Deliver of Document)
- \* Enforcement Order of the Industrial Safety and Health Law: Annex 1-4 (Inflammable Substances)
- \* Ordinance on Prevention of Organic Solvent Poisoning (Second-class)
- \* Ship Safety Act: Flammable liquids (class 3)
- \* Civil Aeronautics Act: Flammable liquids (class 3)
- \* Offensive Odor Control Law: Special offensive odor substances  
Xylene
- \* Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof(PRTR law)

## 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 Material 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 knowledge 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 regard 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 Japan.