



Osen Guard Cri-Up®

MATERIAL SAFETY DATA SHEET(MSDS)

1. Product and Company Identification.

Product name: Anti Foulant Marine Paint Additive

Product Description: A compound of ultra fine activated carbon powder Anatas Titanium Dioxide.

General Use: Suppresses the adhesion of marine creatures to ship and boat bottoms.

Company Profile: UES Co.,Ltd. Japan
2-1-24,Higashi, Kumano-cho,
Sakai-ku, Sakai,Osaka,590-0141
JAPAN
TEL: 81-72-229-2411

Emergency Telephone: UES Co.,Ltd. Sri Lanka
Customer service
No 65A Station Road,Wattala,
Sri Lanka
Contact: Mr. Premalal Perera
Telephone: 94-717-421-235
E-mail: support@good-coco.com

2. Composition/information on Ingredients.

This product contains no hazardous ingredients.

Components:	wt. %	CAS Registry #
Activated Carbon		7440-44-0
Titanium Dioxide		13463-67-7

May contain one or more of the following:

Carbon
Inert Ingredients
Titanium Dioxide (Anatase)

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

	Exposure limit 8 hours TWA(ppm)	
	OSHA PEL	ACGIH TLV
Activated Carbon	Not Established	Not Established
Titanium Dioxide	Not Established	Not Established

3. Hazards Identification

POTENTIAL HEALTH EFFECTS:

General: Non-Hazardous

Eye Contact: The powder may cause physical irritation if not removed.

Ingestion: No adverse effect unless large quantities are ingested which may cause physical discomfort.

Inhalation: No toxic effect. However as with any dust, excessive exposure should be avoided. OSHA "nuisance dust" limitations should be observed.

Skin Contact: Prolonged exposure may cause dryness or capping of exposed areas.

Chronic: Not applicable

4. First Aid Measures

Eye Contact: Wash with plenty of water until particles are removed. If irritation persists seek medical attention.

Ingestion: In case of discomfort seek medical attention.

Inhalation: Take out into fresh air. Keep warm and rest. In case of breathing difficulties seek medical attention.

Skin Contact: Wash with plenty of water and soap.

5. Fire Fighting Measures

Flash Point: Not available

Auto Ignition Temperature: 310 degrees ~ 475 degrees Celsius

Flammable Limits: Not known

Conditions Of Flammability: Not known

Explosive Properties: See unusual hazards below.

Extinguishing Media: Dry chemicals, Water Fog, Foam

Special Fire Fighting Procedures: Wear positive pressure self contained breathing apparatus if fire occurs in an enclosed area.

Hazardous Combustion Products: When burning without oxygen it may release carbon monoxide.

Unusual Hazards: The powder exposed to a strong source of ignition may explode.

6. Accidental Release Measures

Spill or Leak Procedures: Sweep, pick or shovel and dispose of as a non hazardous material.

7. Handling And Storage

Handling and storage precautions: Normal storage conditions applicable. Keep in enclosed containers to preserve product quality.

Storage Temperature: Normal room temperature. Avoid excessive heat.

Storage Pressure: Normal atmospheric pressure.

Shelf Life: Prolonged periods if kept dry.

Special precautions: Keep dry. Wet carbon will absorb oxygen and will reduce oxygen levels in confined spaces to dangerous levels. Adequate ventilation and precautions should be employed whenever closed tanks, receptacles or other enclosed spaces containing carbon are accessed.

8. Exposure Controls/Personal Protection

Engineering Controls: Not required

Personal Protection

Eyes: Goggles or safety glasses with side protection.

Respirator: "nuisance dust" dust masks are recommended.

Handling: Gloves

Other: Local ventilation is recommended to avoid fine dust accumulation.

9. Physical And Chemical Properties

Appearance: Blackish Gray fine powder

Physical Status: Solid

Odour: Odourless

Odor Threshold: Not applicable

Vapour Pressure: Not applicable

Vapour Density: Not applicable

Specific Gravity: 0.2 ~ 0.75

Solubility In Water: Insoluble

Coefficient of Water/Oil Distribution: Not available

pH: 7 ~ 10.5

Boiling Point: 4,827 degrees Celsius

Evaporation Rate: Not applicable

Melting Point: Not applicable

10. Stability And Reactivity

General: Avoid contact with strong oxidizing chemicals such as Ozone, perchloric acid, permanganate, sodium chlorite etc. Exposure to hydrocarbons and vegetable oils may cause slow oxidization until ignition point is reached.

Incompatible Material: Strong oxidizing material

Conditions To Avoid: Contact with material mentioned above.

Hazardous Decomposition: Oxygen starved combustion may precipitate carbon monoxide.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

Carcinogenicity: Not established

Reproduction Toxicity: Not established

Teratogenicity: Not established

Mutagenicity: Not established

Synergistic Products: Not available

Irritancy of Product: Prolonged exposure to dust could cause skin drying and overload lung clearance mechanisms.

Sensitization of Product: Not available

12. Ecological Information

Use of excessive quantities of Titanium Dioxide may cause acute fish toxicity. Both Activated carbon and Titanium Dioxide are practically insoluble in water and could be separated in any filtration or sedimentation process.

13. Disposal Considerations

Waste Disposal Methods: Dispose as non hazardous material in landfills or incineration in accordance with applicable regulations.

14. Transport Information

Proper shipping name: Not regulated

Hazard Class: Not regulated

Identification Number: Not applicable

15. Regulatory Information

Activated carbon None

Titanium Dioxide No labeling is required under EC directives. Threshold value of air 3mg/m³, measured as the alveolar aerosol content. No dangerous waste in accordance with 2000/532/EC

16. Other Information

NFPA Hazard Ratings: (0= None 4= Extreme)

Health: 0

Flammability: 1

Reactivity: 0

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