

物質安全資料表(MSDS)

1. Identification of Substance /Preparation and Company

- 1.1 Product Name : COD degradation agent HB-C2
- 1.2 Another Name : -
- 1.3 Recommend Usage : For wastewater treatment
- 1.4 Information of Manufacturer or Supplier :
GRACESS INTERNATIONAL CO., LTD. /
29F-3, No. 86, Sec. 1, Beixin Rd., Xindian Dist., New Taipei City 231003, Taiwan /+886-2-2673-3998
- 1.5 Emergency Phone/Fax : +886-2-2673-3998/+886-2-2673-3995

2.Hazard Identification Data

- 2.1 Hazard Classification : Not a hazardous substance.
- 2.2 Label : -
Symbol : -
Caution : -
Hazard Warning : -
Acute Symptom :
Eye : If contact to eyes, rinse with plenty of water and get medical assistance.
Skin : -
Inhalation : For the operators who inhalant the TiO₂ powder for long periods, no change in their pulmonary, and no irritant contact dermatitis or allergy.
Swallow : -
Long term exposure symptom: -
- 2.3 Other Hazards : -

3. Composition/ Information of Ingredients

Mixture : -		
Chemical name	CAS Number	%
Nano photocatalysts compounds	13463-67-7	-
water	7732-18-5	-

4. First Aid Measure

- 4.1 Description of first aid measures :
Eye Contact: Flush eyes with plenty of water and get medical aid.
Skin Contact: No damage. Remove contaminated clothes and flush skin with water.
Inhalation: Move to a fresh air place if any symptoms
Ingestion: No damage. If any symptoms, drink a lot of water and get medical aid.
- 4.2 Most important symptoms and effects : -
- 4.3 Protection of first-aid person : -
- 4.4 Suggestion to doctors : First aid, disinfection, and treatment based on the symptoms.
- 4.5 For more health and symptom information, please check section 11.

5. Fire fighting measure

- 5.1 Suitable extinguishing media : Any fire extinguishable media at the site

5.2 Special hazards from fire fight : No specific features of combustion or explosion.

5.3 Special fire measure : -

5.4 Special fire measure of fire fighter : -

5.5 Hazard decomposition substance : -

6. Accidental release measure

6.1 Personal precaution : Recommended to wear the full mask and working suit for cleaning.

6.2 Environmental protection : Isolating the leakage area and restricting the access.

6.3 Cleaning method : While cleaning the leakage, please prevent the powder from raising in the air. Collect the powder into the trash bag and move it to a safe location. If huge leaking, please cover it with plastic fabric or canvas. Collect for recycling or move to disposal area.

7. Handling and storage

7.1 Handling : Placed in a well-ventilated place.

7.2 Storage : Keep container sealed. Avoid direct sunlight and high-temperature materials.

8. Exposure controls/personal protection

8.1 Engineering controls : -

8.2 Controls parameter :

TWA	STEL	PEL-Ceiling	BEIs
8mg/m ³	10mg/m ³	10mg/m ³	NA

8.3 Personal protective equipment :

Respiratory Protection : Wear the face mask.

Hand Protection : Safety gloves is recommended.

Eye/Face Protection : Safety goggle is recommended.

Skin and Body Protection : Wear general working suits.

8.4 Hygiene measures: 1. Wear protect suits properly. 2. Clean the suit after use. 3. Prohibit smoking and food consumed.

9. Physical and chemical properties

- | | | | |
|-------------------------------|-------------|---------------------------------|-------------------|
| • Appearance : | Liquid | • Density: | 3.9~4.1 |
| • Color : | Milky white | • Ionicity: | - |
| • Odor : | - | • PH value : | 10±1 |
| • Flash Point(Closed cup): | - | • Boiling Point/Boiling Range : | - |
| • Flammability(Solid, Gas) : | - | • Explosion limits : | - |
| • Decomposition temperature : | - | • Vapor density : | - |
| • Autoignition temperature : | - | • Solubility : | Soluble in water. |
| • Vapor pressure (25°C): | - | • Chemical reactivity : | - |
| • Proportion : | - | • Evaporation Rate : | - |

10. Stability and Reactivity

- 10.1 Stability : Stable.
- 10.2 Possibility of hazardous reactions : -
- 10.3 Conditions to avoid : -
- 10.4 Materials to avoid : -
- 10.5 Hazardous decomposition products : -

11. Toxicological Information

- 11.1 Route of exposure: It may irritate the nose, throat and lung temporary and cause coughing, dyspnea, or tachypnea.
- 11.2 Symptoms : -
- 11.3 Acute toxicity :
- 11.4 Chronic toxicity/ long-term toxicity : -
- 11.5
- 11.6

12. Ecological Information

- 12.1 Ecological toxicity : -
- 12.2 Persistence and degradability : -
- 12.3 Bioaccumulation : -
- 12.4 Fish toxicity test : -
- 12.5 Mobility in soil: -
- 12.6 Other adverse effects:-

13. Disposal Considerations

- 13.1 Waste treatment method: Waste material must be recycled or disposed in accordance with the local regulations.
- 13.2 Hazard disposal: Prevent leakage to the soil or natural water body.

14. Transport Information

- 14.1 UN-number: No information
- 14.2 UN shipping name: No information.
- 14.3 DG hazard class: No information.
- 14.4 Marine pollutant: No information.
- 14.5 Special transport way and precaution: No information.

15. Regulatory Information

Suitable regulations: Follow the local regulation.

16. Other Information

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Form Maker	29F-3, No. 86, Sec. 1, Beixin Rd., Xindian Dist., New Taipei City 231003, Taiwan /+886-2-2673-3998
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