

## 物質安全資料表(MSDS)

### 1. Identification of Substance /Preparation and Company

- 1.1 Product Name : Wastewater decolorizing agent HB-10DN  
 1.2 Another Name : -  
 1.3 Recommend Usage : -  
 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 Health effects : Dust is irritating to the nose and throat. Inhalation of high concentrations of fumes or mists may cause Bronchospasm, dyspnea, and asthma. Inhalation of a high concentration of vapor may cause lung edema and death. Causes skin and eye irritation. May cause chemical burns to the stomach.  
 2.3 Environmental effects : less damage to the environment

### 3. Composition/ Information of Ingredients

Mixture : -		
Chemical name	CAS Number	%
Inorganic calcium compounds	-	85~90%
Chlorine oxide	10049-04-4	5~10%
Other	-	0~5%

### 4. First Aid Measure

- 4.1 Skin contact : Wash off immediately with soap and plenty of water. Get medical attention immediately.  
 Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.  
 Inhalation : Remove to fresh air. Call a physician immediately.  
 Ingestion : Drink plenty of water or saline to make the patient vomit and receive medical treatment immediately.  
 4.2 Most important symptoms and effects : -  
 4.3 Protection of first-aid person : -  
 4.4 Suggestion to doctors : -

### 5. Fire fighting measure

- 5.1 Suitable extinguishing media : water spray 、 dry chemical 、 carbon dioxide (CO<sub>2</sub>) 、 alcohol-resistant foam 、 halide 、 dry sand.  
 5.2 Applicable fire fighting methods : Combustion, with a strong irritant. Remove all sources of ignition. Use a fire extinguisher to extinguish the fire.  
 5.3 Special protective equipment for firefighters : Firefighters must wear full-body fire and explosion protective clothing and extinguish the fire on the windward side. Remove the container from the fire to the empty area when extinguishing the fire. according to the reasons for the fire, selecting the appropriate type of fire

extinguisher.

## 6. Accidental release measure

- 6.1 Personal precaution : Wear protective clothing, anti-stick to the skin, mucous membranes, clothing or into the eyes.
- 6.2 Environmental precautions : Forbid into drain and river. when this product is diluted with a large amount of water, prevent contaminated wastes from being released into the environment without appropriate treatment.
- 6.3 Cleaning method : with dry sand, soil or silk and other absorption after recovery to the sealed empty container.
- 6.4 To prevent the second disaster method : To avoid the container fall 、 strong impact 、 drag and drop. Check the packing regularly to ensure that it is in good condition.

## 7. Handling and storage

- 7.1 Handling: Prevent packaging falling, strong punch, and drag. Ensure adequate ventilation. Avoid contact with heat, sparks, and flame. Wash thoroughly after handling.
- 7.2 Storage: Store at 0 °C ~ 40 °C places. Store in a segregated and approved area. Keep the container in a cool, well-ventilated area. Keep the container tightly sealed.

## 8. Exposure controls/personal protection

- 8.1 Personal protective equipment :
  - Hand protection : Use rubber gloves
  - Eye protection : Use safety glasses
  - Skin and body protection: Use dust masks, long sleeves workwear, rubber protective clothing boots
- 8.2 Controls parameter :
  - PC-TWA/PC-STEL/PC-MAC: -/ -/ -/-

## 9. Physical and chemical properties

- |                                  |               |                                 |                  |
|----------------------------------|---------------|---------------------------------|------------------|
| • Appearance :                   | White powder  | • Solid content (%) :           | 99%              |
| • Color :                        | White         | • Ionicity:                     |                  |
| • Odor :                         | Irritate odor | • PH value :                    | 12±0.5           |
| • Flash Point ( Closed cup ) : - |               | • Boiling Point/Boiling Range : |                  |
| • Flammability(Solid, Gas ) : -  |               | • Explosion limits :            |                  |
| • Decomposition temperature :    | 177°C         | • Vapor density :               |                  |
| • Autoignition temperature : -   |               | • Solubility :                  | Soluble in water |
| • Vapor pressure ( 25°C ) : -    |               | • Chemical reactivity :         |                  |
| • Proportion : -                 |               | • Evaporation Rate :            |                  |

## 10. Stability and Reactivity

- 10.1 Reactions : Follow the correct procedure for saving, hazardous polymerization will not occur.
- 10.2 Stability : Contact with moisture can be decomposed.

## 11. Toxicological Information

11.1 Acute toxicity : -

11.2 Chronic or long-term toxicity :

Skin sensitization : No data available

Eye irritation or corrosion : No data available

Respiratory sensitization : No data available

11.3 Carcinogenicity: No data available

11.4 Other hazards : No data available

## 12. Ecological Information

12.1 Ecotoxicity : No data available

12.2 Bioaccumulate potential : No data available

12.3 Mobility in soil : No data available

12.4 Persistence and degradability : No data available

12.5 Other adverse effects : No data available

12.6 Other adverse effects: -

## 13. Disposal Considerations

13.1 Product disposal : Contact a licensed professional waste disposal service to dispose of this material.

13.2 Packaging disposal : Contact a licensed professional waste disposal service to dispose of this material.

## 14. Transport Information

14.1 UN-number: Not a hazardous product. Not Restricted.

14.2 UN shipping name: Not a hazardous product. Not Restricted.

14.3 DG hazard class: Not a hazardous product. Not Restricted.

14.4 Marine pollutant: Not a hazardous product. Not Restricted.

14.5 Special transport way and precaution: Not Restricted.

14.6 Transport specific safety : Prevent packaging damage, corrosion, leakage, wetting. Prevent falling, drop, damage during shipment.

## 15. Regulatory Information

Suitable regulations: -

## 16. Other Information

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### LIMITED WARRANTY INFORMATION – PLEASE READ BEFORE ANY APPLICATION:

•The data presented in this brochure are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt.

•We reserve the right to alter product constants within the scope of technical progress or new developments.

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- We disclaim any responsibility for any dispute regarding product quality between agent and end user.
- Our sole warranty is that our products will meet the sales specifications in effect at the time of shipment.