

物質安全資料表(MSDS)

1. Identification of Substance / Preparation and Company

1.1 Product Name: Photocatalyst-Silver Ion composite agent PL-205WG

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. Hazards Identification data

2.1 Hazard classification: -

2.2 Label: -

Symbol: -

Caution: -

Hazard alarm: -

Hazard preventive measure: -

2.3 Other hazard: no information

3. Composition/Information of Ingredients

Mixtures: -

Materials name	CAS Number	%	
Nano TiO2	13463-67-7	2.16~2.18%	
Silver	7440-22-4	0.005~0.007%	
Water	7732-18-5	96~98%	

4. First Aid measure

4.1 First aid measure:

Inhalation: If any symptoms, move to fresh air place.

Skin: Remove contaminated clothes and flush skin with plenty of soap and water.

Eyes: Flush eyes with plenty of water at least 15 minutes and get medical aid at once.

Ingestion: Rinse the mouth and drink a lot of water and get medical aid.

- 4.2 The most harmful effect: Mildly irritating to eyes.
- 4.3 Protection of first-aid person: No information.
- 4.4 Suggestion to doctors: No information.

5. Fire Fighting Measure

- 5.1 Suitable extinguishing media: Water, dry chemical powder, foam CO2 recommended.
- 5.2 Special hazards from fire fight: Pyrolysis may produce toxic gases.

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- 5.3 Special fire measure: Operate at windward side and prevent dangerous steam and toxic decomposition.
- 5.4 Special protect equipment of fire fighter: As in any fire, wear self-contained breathing apparatus and full protective gear

6. Accidental release measures

- 6.1 Personal precaution: Wear safety goggles and protective gloves.
- 6.2 Environmental precautions: Prevent the leakage get into any kinds of sewer system.
- 6.3 Cleaning method: 1. Using general absorbing materials. 2. Flushing with plenty of water.

7. Handling and Storage

- 7.1 Handling: Placed in a well-ventilated place.
- 7.2 Storage:
 - 1. Keep container sealed.
 - 2. Prevent the container from bumping
 - 3. Storage with well adequate ventilation and cool dry places.
 - 4. Keep the path and exit in clear.
 - 5.Do not return the polluted liquid to the container.
 - 6. Clear labeling.

8. Exposure Controls

- 8.1 Engineering controls: Supplying plenty of fresh air.
- 8.2 Control's parameter:

PC-TWA/PC-STEL/PC-MAC: No information.

8.3 Personal protective equipment:

Respirator: Wear activated carbon face masks or self-contained breathing apparatus.

Hand protection: Safety rubber or plastic gloves.

Eye protection: Safety goggle is recommended.

Skin and body protection: Wear working suits or aprons.

8.4 Health measure: 1. Clean the suit after use and before discard. 2. Wash hands thoroughly after work. 3. Keep the working place clean.

9. Physical and Chemical Properties

•	Appearance:	Liquid	•	Solid contents (%):	2.17~2.19%
•	Color:	Transparent to pare yellow	•	pH value:	9~11
•	Odor:	Mild odor	•	Melt point:	-
•	Odor Threshold Value:	-	•	Boiling point/range:	-
•	Inflammability:	-	•	Explosion limit:	-
•	Decomposition temperature:	-	•	Vapor density:	-
•	Auto-ignition temperature:	-	•	Solubility:	Soluble in water.

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Vapor pressure:
Chemical reactivity:

Density:
Evaporation rate:

Log KOW:
Flash point:

10. Stability and Reactivity

- 10.1 Stability: Stable.
- 10.2 Possible harmful reaction under special condition: -
- 10.3 Avoiding state: -
- 10.4 Avoiding substance: Alkali
- 10.5 Harmful decomposed substance: -

11. Toxicological Information

- 11.1 Exposure route: No information.
- 11.2 Symptoms: No information.
- 11.3 Acute toxicology: LD50 (rat ingestion) > 2000mg/kg
- 11.4 Chronic toxicity/ long-term toxicity: -

12. Ecological Information

- 12.1 Ecotoxicity: -
- 12.2 Persistence and degradability: -
- 12.3 Bioaccumulative potential: -
- 12.4 Mobility in soil: -
- 12.5 Other adverse effects: -
- 12.6 Remark: -

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: No information.

14. Transport Information

- 14.1 UN-number: Non-dangerous goods
- 14.2 UN shipping name: Non-dangerous goods
- 14.3 DG hazard class: Non-dangerous goods
- 14.4 Marine pollutant: -
- 14.5 Special transport way and precaution: Drums are transported by truck and must with clear mark. If transferring by tank truck, the tank truck must be marked.

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15. Regulatory Information

Suitable regulations:

- 1. Labor safety and sanitation rules
- 2. Dangerous and harmful substance labeling and general rules
- 3. Traffic safety rule
- 4. Industrial waste storage and removal methods and facilities standards.

16. Other Information

GRACESS INTERNATIONAL CO., LTD.

Form Maker

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Date 06/06/2022

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.
- The recommendations made in this brochure should be checked by preliminary trials because of conditions during processing over which
- we have no control, especially where other companies' raw materials are also being used.
- The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties'
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- Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.
- · 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.