

## 物質安全資料表(MSDS)

### 1 · Identification Of The Substance / Preparation And Company

- 1.1 Product Information: Nanometre far infrared disperse liquid NL-814
- 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: protective glove and glass, working clothes. Wash hands after working.
- 2.3 Other hazard: -

### 3. Identification data

|  |            |   |
|--|------------|---|
| English name: Nanometre far infrared disperse liquid NL-814  |            |   |
| Synonym name:  |            |   |
| Materials name   | CAS Number | % |
| TiO <sub>2</sub> , SiO <sub>2</sub> etc, many kinds compound | -          | - |

### 4. First aid measure

- 4.1 First aid measure:  
Eyes: Flush eyes with plenty of water for 15 minutes and get medical attention.  
Skin: take off contaminated clothes and flush with water. Get medical attention if symptom is continuous.  
Inhalation: move to fresh air and get medical attention if symptom continues.  
Ingestion: get medical attention.
- 4.2 The most harmful effect:-
- 4.3 Protection of first-aid person: -
- 4.4 Suggestion to doctors: -

### 5. Fire fighting measure

- 5.1 Suitable extinguishing media: -
- 5.2 Special hazards from fire fight: -
- 5.3 Special fire measure: -
- 5.4 Special fire measure of fire fighter: -

## 6. Accidental release measure:

- 6.1 Personal precaution: avoid touching skin and eyes. No ingestion.
- 6.2 Environmental precautions: forbid into river and drain.
- 6.3 Cleaning method: clean by water.

## 7. Handling and storage:

- 7.1 Handling: wash hands after handling.
- 7.2 Storage: Keep container closed. Avoid oxidant. Store at cool, dry and ventilated place.

## 8. Exposure controls/personal protection:

- 8.1 Engineering controls: local ventilated equipment
- 8.2 controls parameter:  
PC-TWA/PC-STEL/PC-MAC: -/ -/ -/ -
- 8.3 Personal protective equipment:
  - Hand protection: safety glove
  - Respirator: safety respirator
  - Eye protection: safety goggle
  - Skin and body protection: long sleeve clothes
- 8.4 Health measure: wash hands after handling.

## 9. Physical and chemical properties:

- |                   |                      |                    |                   |
|-------------------|----------------------|--------------------|-------------------|
| • Appearance:     | liquid               | • Solid content:   | -                 |
| • Color:          | white nontransparent | • pH value:        | 3.0±1.0           |
| • Ionic charge:   | nonionic             | • Boiling point:   | 100°C             |
| • Flash point:    | >100°C (closed cup)  | • Melt point:      | -                 |
| • Inflammability: | -                    | • Explosion limit: | -                 |
| • Vapor pressure: | 8mmHg                | • Vapor density:   | -                 |
| • Density:        | appr.1.01            | • Solubility:      | disperse to water |

## 10. Stability and activity:

- 10.1 Stability: stable
- 10.2 Avoidance: none
- 10.3 Avoidant materials: oxidant
- 10.4 Hazard decomposition: -
- 10.5 Hazard polymerization: -

## 11. Toxicological information

- 11.1 Acute toxicology: -
- 11.2 Local effect:
  - Eyes: irritant
  - Skin: irritant
- 11.3 Symptoms: -
- 11.4 Chronic toxicity/ long-term toxicity: -
- 11.5 Special effect: -

## 12. Ecological information:

- 12.1 Ecological toxicity: -
- 12.2 Environmental influence: -
- 12.3 Accumulation:-
- 12.4 Decomposition: -

## 13. Disposal considerations:

Disposal method: disposal according to local regular.

## 14. Transport Information

- 14.1 International transport regulate: -
- 14.2 UN-number: -
- 14.3 Native transport name: -
- 14.4 Transport classification: -
- 14.5 Package classification: -
- 14.6 Marine pollutant (yes or no): -
- 14.7 Special transport way and precaution: -

## 15. Regulation

Suitable regulations: -

## 16. Other

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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.
- 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' rights or patents and, if necessary, clarifying the position.
- 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.