

# Safety Data Sheet

## Section 1. Identification

**GHS product Identifier** : RG-2400® LT  
**Product code** : Not available  
**Other means of identification** : Not available  
**Product type** : Creamy gel like

**Relevant identified used of the substance or mixtures and uses advised against**

**Identified use:** Coating for the prevention of corrosion.

**Manufacturer** Polyguard Products, Inc.  
 4101 South Interstate 45  
 Ennis, TX 75119  
 Tel: (214) 515-5000  
**Emergency telephone number** CHEMTREC, US 1-800-424-9300 International 1-703-527-3887  
**with hours of operation)** (24/7)

## Section 2. Hazards Identification

**OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazardous Communications Standard (49CFR1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**Classification of the substance or mixture** : Not classified

**Titanium Dioxide is not in its respirable form and is a constituent of the mixture.**

**GHS label elements**

**Signal word** : No signal word  
**Hazard statement** : No known significant effects or critical hazards.

**Precautionary statements**

**Prevention** : Not applicable.  
**Response** : Not applicable.  
**Storage** : Not applicable.  
**Disposal** : Not applicable.  
**Hazards not otherwise classified** : None known

## Section 3. Composition/Information on Ingredients

**Substance/Mixture** : Mixture  
**Other means of identification** : Not available

| Ingredient name  | %       | CAS Number |
|------------------|---------|------------|
| Titanium Dioxide | 0.1-0.2 | 13463-67-7 |

United States: the exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of 1912.1200.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentration applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First Aid Measures

### Description of necessary first aid measures.

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if irritation occurs.
- Skin contact** : Flush contaminated skin with plenty of soap and water. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at a rest position comfortable for breathing. If material has been swallowed and the exposed person is conscious give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : No known or significant effects or critical hazards.
- Inhalation** : No known or significant effects or critical hazards.
- Skin contact** : No known or significant effects or critical hazards.
- Ingestion** : No known or significant effects or critical hazards.

### Most important symptoms/effects, acute and delayed

#### Over-exposure signs/symptoms

- Eye contact** : No known or significant effects or critical hazards.
- Inhalation** : No known or significant effects or critical hazards.
- Skin contact** : No known or significant effects or critical hazards.
- Ingestion** : No known or significant effects or critical hazards.

### Indication of immediate medical attention and special treatment needed, if necessary.

- Notes to physician:** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment
- Protection of first-aiders:** : No action shall be taken involving any personal risk or without suitable training.

## Section 5. Fire-Fighting Measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known
- Specific hazards arising from the chemical** : No specific fire or explosion hazard.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials: Metal oxides/oxides.
- Special protective equipment** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective actions for fire fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in a positive pressure mode.

## Section 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures.

- For non emergency personal** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk thru spilled material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel."
- Environmental precautions** : Avoid disposal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

### Methods and materials for containment and cleaning up

- Spill** : Stop leak if without risk. Move container from spill area. Approach release from upwind. Prevent entry into sewers, water courses. Contain and collect spillage with non-combustible absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations Dispose of via a licensed waste disposal contractor. See Section 13 for waste disposal.

## Section 7. Handling and Storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry cool and well-ventilated area, away from incompatible materials ( see section 10) and food and drink. Keep container tightly closed and sealed until ready to use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See section 10 for incompatible materials be handling or use.

## Section 8. Exposure Controls/Personal Protection

### Control parameters

### Occupational exposure limits

| <b>Ingredient name</b> | <b>Exposure limits</b>   |
|------------------------|--|
| Titanium Dioxide       | <b>ACGIH TLV (United states, 3/2017)</b><br>TWA: 10 mg/m <sup>3</sup> 8 hours<br><b>OSHA PEL 1989 ( United states, 6/2016)</b><br>TWA: 15 mg/m <sup>3</sup> 8 hours Form: Total dust |

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminates.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## Section 8. Exposure Controls/Personal Protection

- Hygiene measure:** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the work station location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Safety glasses with side shields.
- Skin Protection**
- Hand protection** : Chemical- resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and Chemical Properties

- Appearance**
- Physical state** : Liquid [Creamy gel]
- Color** : Bluish
- Odor** : Not available
- Odor threshold** : Not available
- pH** : Not applicable
- Melting point** : Not available
- Boiling point** : Not available
- Flash Point** : Open cup: 179.44 °C (355 ° F) Cleveland
- Evaporation rate:** : Not available
- Flammability (solid, gas)** : Not available
- Lower & upper explosive (flammable) limits** : Not available
- Vapor density** : Not available
- Vapor pressure** : Not available
- Relative density** : 0.95-1.15
- Solubility** : Insoluble in water.
- Partition coefficient: n-octanol/water** : Not available
- Auto- ignition temperature** : 434 to 437 °C (813.2 to 818.6° F)
- Decomposition temperature** : Not available
- Viscosity** : Not available

## Section 10. Stability and Reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : This product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid:** : No specific data.
- Incompatible materials** : Reactive or incompatible with the following materials: oxidizing materials.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological Information

### Information on toxicological effects

- Acute toxicity** : There is no data available.
- Irritation/Corrosion** : There is no data available.
- Sensitization** : There is no data available.
- Mutagenicity** : There is no data available.
- Carcinogenicity** : There is no data available.

| Product/ingredient name | OSHA | IARC | NTP |
|-------------------------|------|------|-----|
| Titanium Dioxide        | -    | 2 B  | -   |

- Reproductive toxicity** : There is no data available.
- Teratogenicity** : There is no data available.
- Specific target organ toxicity ( single exposure)** : There is no data available.
- Specific target organ toxicity ( repeated exposure)** : There is no data available.
- Aspiration Hazard** : There is no data available.
- Information on the likely routes of exposure** : Dermal contact, eye contact, ingestion.

### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects:** : No known significant effects or critical hazards.
- Potential delayed effects:** : No known significant effects or critical hazards.

## Section 11. Toxicological Information

### Long term exposure

**Potential immediate effects:** : No known significant effects or critical hazards.

**Potential delayed effects:** : No known significant effects or critical hazards.

### Potential chronic health effects

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

### Numerical measure of toxicity

**Acute toxicity estimates** : There is no data available.

## Section 12. Ecological Information

### Toxicity

| Product/ingredient name | Result                                | Species                    | Exposure |
|-------------------------|---------------------------------------|----------------------------|----------|
| Titanium dioxide        | Acute LC50> 1000000 µg/l Marine water | Fish-Fundulus heteroclitus | 96 hours |

**Persistence and degradability** : There is no data available.

**Bioaccumulative potential** : There is no data available.

### Mobility in soil

Soil/water partition coefficient : Not available.

(K<sub>oc</sub>)

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal Considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recycled products via a licensed waste disposal contractor. Waste should not be disposed of to a sewer. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, water ways, drains and sewers.

## Section 14. Transportation information

**DOT/IATA/IMDG** : Not regulated

## Section 15. Regulatory Information

- US Federal Regulations** : United States inventory ( TSCA 8 b): All components are listed or exempted.  
**Clean air act section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed.  
**Clean Air Act Section 602 Class I Substance** : Not listed.  
**Clean Air Act Section 602 Class II Substance** : Not listed.  
**DEA List I Chemicals ( Precursor Chemicals)** : Not listed.  
**DEA List II Chemicals ( Essential Chemicals)** : Not listed.  
**SARA 302/304** : No products found  
**SARA 304 RQ** : Not applicable.  
**SARA 311/312**  
**Classification** : Not applicable.  
[Composition/information on ingredients](#)

| Name             | Classification              |
|------------------|-----------------------------|
| Titanium Dioxide | Carcinogenicity- Category 2 |

- [SARA 313](#) : This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

[State Regulations Massachusetts](#)

- : The following components are listed: Distillates (petroleum), hydrotreated heavy paraffinic; Distillates (petroleum), solvent-dewaxed heavy paraffinic; Distillates ( petroleum), hydrotreated light paraffinic; Distillates (petroleum), solvent-dewaxed light paraffinic; Silicic acid, calcium salt.

[New York](#)

- : None of the components are listed.


[New Jersey](#)

- : The following components are listed: Silicic acid, calcium salt; Titanium dioxide.

[Pennsylvania](#)

- : The following components are listed: Silicic acid, calcium salt; Titanium dioxide.

[California Prop 65](#)

- :  **WARNING:** This product can expose you to Titanium dioxide which is known to the State of California to cause cancer. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## 16. Other information

- Date of revision:** June 4, 2019  
**Date of previous issue** April 15, 2019  
**Revisions:** Create US only version  
**Version** 7  
**Prepared by** C. Rogalski

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