SAFETY DATA SHEET

RG-2400[®] LT

| 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 uses o | f the substance or mixture and uses advised against | |
| Identified uses | : Coating for the prevention of corrosion. | |
| Manufacturer | : Polyguard Products Inc. 4101 South Interstate 45 Ennis, TX 75119 Tel: 214-515-5000 Web site: www.polyguard.com | |
| Supplier's details | : IN-LINE PIGGING SOLUTIONS LTD. 220-40TH Avenue NE Calgary, AB T2E 2M7 Canada | |
| Emergency telephone number (with hours of operation) | : CHEMTREC, U.S.: 1-800-424-9300 International: +1-703-527-3887 24/7 | |

Section 2. Hazards identification

| : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), 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. |
|---|
| : Not classified. |
| |
| Titanium Dioxide is not in its respirable form and is a constituent of the mixture. |
| |
| : No signal word. |
| : No known significant effects or critical hazards. |
| |
| : Not applicable. |
| : None known. |
| |



Section 3. Composition/information on ingredients

Substance/mixture

- : Not available.
- Other means of identification
- : Mixture
- **Ingredient name** % **CAS** number 13463-67-7 Titanium dioxide 0.1 - 0.2

United States: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

Canada: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations 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 symptoms occur. |
| Skin contact | : Flush contaminated skin with plenty of water. Get medical attention if symptoms occur. |
| Ingestion | : Wash out mouth with water. Remove victim to fresh air and keep at rest in a 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 effe | <u>cts</u> | |
| 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. | |
| Over-exposure signs/symp | <u>otoms</u> | |
| 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. | |
| | | |
| Indication of immediate me | dical 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. | |

See toxicological information (Section 11)



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 oxide/oxides |
| Special protective actions for fire-fighters | 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 equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

Section 6. Accidental release measures

| Personal precautions, protect | ctive equipment and emergency procedures |
|--------------------------------|---|
| For non-emergency personnel | 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 through 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 dispersal 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 co | ontainment and cleaning up |
| Spill | : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact |

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 this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures. |

information and Section 13 for waste disposal.

Section 7. Handling and storage

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 for 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 before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|------------------|--|
| Titanium dioxide | ACGIH TLV (United States, 3/2017). TWA: 10 mg/m ³ 8 hours. OSHA PEL (United States, 6/2016). TWA: 15 mg/m ³ 8 hours. Form: Total dust |

<u>Canada</u>

Occupational exposure limits

| Ingredient name | Exposure limits |
|------------------|--|
| Titanium dioxide | CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 10 mg/m³ 8 hours.CA British Columbia Provincial (Canada, 6/2017). TWA: 3 mg/m³ 8 hours. Form: Respirable dust TWA: 10 mg/m³ 8 hours. Form: Total dustCA Ontario Provincial (Canada, 1/2018). TWA: 10 mg/m³ 8 hours.CA Quebec Provincial (Canada, 1/2014). TWAEV: 10 mg/m³ 8 hours. Form: Total dustCA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m³ 8 hours.TWA: 10 mg/m³ 8 hours. |

| Appropriate engineering controls | : | Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
|----------------------------------|------|---|
| Environmental exposure controls | : | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. |
| Individual protection meas | ures | |
| Hygiene measures | : | 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 workstation location. |
| Eye/face protection | : | Safety eyewear complying with an approved standard should be used when a 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. |



Section 8. Exposure controls/personal protection

| 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 | : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. |

Section 9. Physical and chemical properties

| <u>Appearance</u> | |
|--|---|
| Physical state | : Liquid. [Creamy gel.] |
| Color | : Bluish. |
| Odor | : Not available. |
| Odor threshold | : Not available. |
| рН | : 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 and upper explosive (flammable) limits | : Not available. |
| Vapor pressure | : Not available. |
| Vapor density | Not available. |
| Relative density | : 0.95 to 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. |
| Flow time (ISO 2431) | : Not available. |

Section 10. Stability and reactivity

| Reactivity | : No specific test data related to reactivity available for this product or its ingredients. | |
|------------------------------------|---|-----|
| Chemical stability | : The 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. | |
| KMK Regulatory Services | Tel : +1-888-GHS-7769 (447-7769) / +1-450-GHS-7767 (447-7767) www.kmkregservices.com www.askdrluc.com www.ghssmart.com | 5/9 |

Section 10. Stability and reactivity

| Hazardous decomposition | : Under normal conditions of storage and use, hazardous decomposition products should |
|-------------------------|---|
| products | 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

Classification

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

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 : Dermal contact. Eye contact. Ingestion.

routes of exposure

| 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



Section 11. Toxicological information

| Potential immediate effects | : No known significant effects or critical hazards. |
|--------------------------------|---|
| Potential delayed effects | : No known significant effects or critical hazards. |
| 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 eff | ects |
| 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 measures 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 : Not available. coefficient (Koc)

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-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the 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. Empty containers or liners may retain some product residues. Avoid dispersal of an analytical and the severe material and the severe. |
|------------------|--|
| | spilled material and runoff and contact with soil, waterways, drains and sewers. |



Section 14. Transport information

| | DOT Classification | TDG Classification | IMDG | IATA |
|-------------------------------|--------------------|--------------------|----------------|----------------|
| UN number | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping name | - | - | - | - |
| Transport hazard class(es) | - | - | - | - |
| Packing group | - | - | - | - |
| Environmental hazards | No. | No. | No. | No. |

AERG : Not applicable

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

| U.S. Federal regulations | : United States inventory (TSCA 8b): 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 Substances | : Not listed |
| Clean Air Act Section 602 Class II Substances | : Not listed |
| DEA List I Chemicals (Precursor Chemicals) | : Not listed |
| DEA List II Chemicals (Essential Chemicals) | : Not listed |
| SARA 302/304 No products were found. | |
| SARA 304 RQ | : Not applicable. |
| <u>SARA 311/312</u> | |
| Classification | : Not applicable. |
| Composition/information | on ingredients |
| Name | Classification |
| Titanium dioxide | CARCINOGENICITY - Category 2 |
| | |

SARA 313

There is no data available.

State regulations



Section 15. Regulatory information

| 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 | |
| | oduct can expose you to Titanium dioxide, which is known to the State of California to cause |

WARNING: This product can expose you to Titanium dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

| <u>Canadian lists</u> | |
|--------------------------------|--|
| Canada inventory (DSL NDSL) | : All components are listed or exempted. |
| Canadian NPRI | : None of the components are listed. |
| CEPA Toxic substances | : None of the components are listed. |

Section 16. Other information

Procedure used to derive the classification

| | Classification | Justification |
|--------------------------|--|---------------|
| Not classified. | | |
| History | | |
| Date of issue mm/dd/yyyy | : 04/15/2019 | |
| Date of previous issue | : 11/15/2014 | |
| Version | : 6 | |
| Prepared by | : KMK Regulatory Services Inc. | |
| Key to abbreviations | KMK Regulatory Services Inc. ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations | |

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