# **Material Safety Data Sheet**

## **RG 2400 LT**

## 1. Product and company identification

Product name : RG 2400 LT

Material uses : Coating for the prevention of corrosion.

**Supplier/Manufacturer**: Polyguard Products

3801 South Interstate 45

Ennis, TX 75119 Tel: (800)541-4994

MSDS authored by : KMK Regulatory Services inc.

In case of emergency : CHEMTREC, U.S.: 1-800-424-9300 International: +1-703-527-3887

Product type : Gel

## 2. Hazards identification

**Emergency overview** 

Color : Blue-grey to steel blue cream.

Physical state : Gel

Odor : Paint. [Slight]
Signal word : WARNING!

Hazard statements : CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON

ANIMAL DATA. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE

CANCER.

The above hazards are not anticipated because the product is a gel, so the hazardous solid ingredients will never become in 'dust free' or 'respirable' form.

**Precautions**: Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist.

Do not get on skin or clothing. Use only with adequate ventilation. Keep container tightly

closed and sealed until ready for use. Wash thoroughly after handling.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Potential acute health effects

Inhalation: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.Skin: No known significant effects or critical hazards.Eyes: No known significant effects or critical hazards.

Potential chronic health effects

Chronic effects : Contains material that may cause target organ damage, based on animal data.

**Carcinogenicity** : Contains material which can cause cancer. Risk of cancer depends on duration and

level of exposure.

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.

Target organs: Contains material which may cause damage to the following organs: upper respiratory

tract, skin, eyes.

Over-exposure signs/symptoms

Inhalation: No specific data.Ingestion: No specific data.Skin: No specific data.

#### Hazards identification 2.

**Eyes** 

**Medical conditions** aggravated by overexposure

: No specific data.

Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

#### Composition/information on ingredients 3.

#### **United States**

Name	CAS number	%
Calcium silicate Titanium oxide <sup>1</sup>	1344-95-2 13463-67-7	0.01 - 10 0.01 - 1

#### Canada

Name	CAS number	%
Calcium silicate Titanium oxide <sup>1</sup>	1344-95-2 13463-67-7	0.01 - 10 0.01 - 1

<sup>&</sup>lt;sup>1</sup>Titanium oxide is not in its respirable form and is a constituent of the mixture.

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.

## First aid measures

Eye contact

: Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.

**Skin contact** 

In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention.

Inhalation

: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention.

Ingestion

: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Notes to physician

: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

#### 5. Fire-fighting measures

Flammability of the product

: No specific fire or explosion hazard.

**Extinguishing media** 

Suitable

Not suitable

: Use an extinguishing agent suitable for the surrounding fire. : None known.

**Hazardous thermal** decomposition products Decomposition products may include the following materials: metal oxide/oxides

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.

## 6. Accidental release measures

## **Personal precautions**

: Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

### **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 for cleaning up

### **Small spill**

: Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### Large spill

: 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. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7. Handling and storage

### **Handling**

Put on appropriate personal protective equipment (see section 8). 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. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### **Storage**

: 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.

## 8. Exposure controls/personal protection

### **United States**

Ingredient	Exposure limits
Calcium silicate	NIOSH REL (United States, 6/2009).  TWA: 5 mg/m³ 10 hour(s). Form: Respirable fraction  TWA: 10 mg/m³ 10 hour(s). Form: Total  OSHA PEL (United States, 11/2006).  TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction  TWA: 15 mg/m³ 8 hour(s). Form: Total dust  ACGIH TLV (United States, 1/2009).  TWA: 10 mg/m³ 8 hour(s).
Titanium oxide	OSHA PEL (United States, 11/2006). TWA: 15 mg/m³ 8 hour(s). Form: Total dust ACGIH TLV (United States, 1/2009). TWA: 10 mg/m³ 8 hour(s).

#### 8. **Exposure controls/personal protection**

### Canada

Occupational exposure limits		TWA (8 hours)		STEL (15 mins)			Ceiling				
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
Titanium oxide	US ACGIH 1/2009	-	10	-	-	-	-	-	-	-	
	AB 4/2009	-	10	-	-	-	-	-	-	-	[3]
	BC 9/2009	-	3	-	-	-	-	-	-	-	[a]
		-	10	-	-	-	-	-	-	-	[b]
	ON 8/2008	-	10	-	-	-	-	-	-	-	[b]
	QC 6/2008	-	10	-	-	-	-	-	-	-	[b]
Calcium silicate	US ACGIH 1/2009	-	10	-	-	-	-	-	-	-	
	AB 4/2009	-	10	-	-	-	-	-	-	-	[3] [c]
	BC 9/2009	-	3	-	-	-	-	-	-	-	[a]
		-	10	-	-	-	-	-	-	-	[b]
	ON 8/2008	-	10	-	-	-	-	-	-	-	[a] [b] [b]
	QC 6/2008	-	10	-	-	-	-	-	-	-	[b]

[3]Skin sensitization

Form: [a]Respirable dust [b]Total dust [c]Nonfibrous

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

: Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Engineering measures** 

: Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

**Hygiene measures** 

: Ensure that eyewash stations and safety showers are close to the workstation location. 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.

## Personal protection

Respiratory

: 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. Recommended: Wear an appropriate NIOSH approved respirator if concentration levels exceed the safe exposure limits.

**Hands** 

Use gloves appropriate for work or task being performed. Recommended: Natural rubber (latex).

Eyes

: Safety eyewear should be used when there is a likelihood of exposure. Recommended: Safety glasses with side shields.

Skin

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. Recommended: Lab coat.

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Physical and chemical properties 9.

**Physical state** 

Gel

Color

Blue-grey to steel blue cream.

Odor Specific gravity : Paint. [Slight]

: 0.95 to 1.15

VOC

: 0 g/l, (0% w/w)

Solubility

Insoluble in the following materials: cold water and hot water.

#### 10. Stability and reactivity

**Chemical stability** 

: The product is stable.

**Conditions to avoid** Materials to avoid

products

: Avoid exposure - obtain special instructions before use.

**Hazardous decomposition** 

: Reactive or incompatible with the following materials: oxidizing materials. Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

**Possibility of hazardous** 

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Hazardous polymerization** 

: Under normal conditions of storage and use, hazardous polymerization will not occur.

## **Toxicological information**

**Acute toxicity** 

: No specific data.

**Chronic toxicity** 

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Calcium silicate Titanium oxide	A4 A4	- 2B		None. None.	-	-

## **Ecological information**

**Environmental effects** 

: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## **Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure	
Titanium oxide	Acute LC50 5.5 ppm Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) - <24 hours	48 hours	
	Acute LC50 >1000000 ug/L Marine water Chronic NOEC 1 ppm Fresh water	Fish - Fundulus heteroclitus Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) - <24 hours	96 hours 48 hours	

Other adverse effects

: No known significant effects or critical hazards.

## **Disposal considerations**

Waste disposal

The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

DOT/TDG/IMDG/IATA

: Not regulated.

## 15. Regulatory information

### **United States**

**HCS Classification** 

: Carcinogen

Target organ effects

Please see Section 2 for applicable hazards.

<sup>1</sup>Titanium oxide is not in its respirable form and is a constituent of the mixture.

U.S. Federal regulations

: United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Calcium silicate

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Calcium silicate: Immediate (acute) health hazard

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

Clean Air Act Section 112(b) Hazardous Air **Pollutants (HAPs)** 

: Not listed

Clean Air Act Section 602 : Not listed

Class I Substances

Clean Air Act Section 602 : Not listed

Class II Substances

**DEA List I Chemicals** (Precursor Chemicals)

: Not listed

**DEA List II Chemicals** (Essential Chemicals) : Not listed

State regulations

: Connecticut Carcinogen Reporting: None of the components are listed.

Connecticut Hazardous Material Survey: None of the components are listed.

Florida substances: None of the components are listed.

Illinois Chemical Safety Act: None of the components are listed.

Illinois Toxic Substances Disclosure to Employee Act: None of the components are

listed.

Louisiana Reporting: None of the components are listed. Louisiana Spill: None of the components are listed. Massachusetts Spill: None of the components are listed.

Massachusetts Substances: The following components are listed: Calcium silicate

Michigan Critical Material: None of the components are listed.

Minnesota Hazardous Substances: None of the components are listed.

New Jersey Hazardous Substances: The following components are listed: Calcium

silicate; Titanium oxide

**New Jersey Spill**: None of the components are listed.

New Jersey Toxic Catastrophe Prevention Act: None of the components are listed. New York Acutely Hazardous Substances: None of the components are listed. New York Toxic Chemical Release Reporting: None of the components are listed. Pennsylvania RTK Hazardous Substances: The following components are listed:

Calcium silicate: Titanium oxide

Rhode Island Hazardous Substances: None of the components are listed.

### California Prop. 65

No products were found.



## 15. Regulatory information

WHMIS (Canada)
Canadian lists

: Class D-2A: Material causing other toxic effects (Very toxic).

: CEPA Toxic substances: None of the components are listed.

**Canadian ARET**: None of the components are listed. **Canadian NPRI**: None of the components are listed.

Alberta Designated Substances: None of the components are listed. Ontario Designated Substances: None of the components are listed. Quebec Designated Substances: None of the components are listed.

**Canada inventory** 

: All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## **International regulations**

International lists

: Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): Not determined.

**Japan inventory**: All components are listed or exempted. **Korea inventory**: All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

**Chemical Weapons** 

**Convention List Schedule I** 

**Chemicals** 

: Not listed

**Chemical Weapons** 

Convention List Schedule

II Chemicals

: Not listed

**Chemical Weapons** 

Convention List Schedule

III Chemicals

: Not listed

## 16. Other information

**United States** 

Label requirements

: CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)





## 16. Other information

## Canada

WHMIS (Canada)



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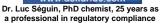
Version : 3

## Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.







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