



# SAFETY DATA SHEET

## PG-1100 Thermo Black Primer

### SECTION 1. IDENTIFICATION

Product Name PG-1100 Thermo Black Primer  
Chemical Family Water-based Acrylic Coating  
Recommended Use/Restrictions Coating for spray polyurethane foam  
Manufacturer ProGuard Group  
2390 Supply Ave  
Los Angeles, CA 90040  
24-Hour Emergency Phone CHEMTREC 1-800-424-9300  
Information Only (844) PRO-GUARD (776-4273)

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Carcinogenicity: Category 1A

#### GHS Label Elements

Hazard pictograms:



Signal word: Danger

Hazard statements: May cause cancer

Precautionary statements:

#### Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood

Wear permeation resistant protective gloves and clothing. Wear eye and face protection.

#### Response:

IF exposed or concerned: Get medical attention.

#### Storage:

Store locked up.

#### Disposal:

Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 28 %

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

### Hazardous Components

Weight Percent	Components	CAS-No.	Classification
0.1 - 1%	Titanium dioxide (Rutile)	13463-67-7	Carcinogenicity Category 2 Inhalation. Specific target organ toxicity – single exposure Category 3 Respiratory system.
0.1 - 1%	Carbon Black	1333-86-4	Carcinogenicity Category 2 Inhalation. Specific target organ toxicity – single exposure Category 3 Respiratory system.
0.1 - 1%	Benzophenone	119-61-9	Carcinogenicity Category 2 Specific target organ toxicity – repeated exposure Category 2 Liver. Kidney
0.1 - 1%	Crystalline Quartz Silica	14808-60-7	Acute toxicity Category 4 Oral. Carcinogenicity Category 1A. Specific target organ toxicity - repeated exposure Category 1 Lungs.
0.1 - 1%	Titanium dioxide (rutile)	1317-80-2	Specific target organ toxicity – single exposure Category 3 Respiratory system. Carcinogenicity Category 3 Inhalation.

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

## SECTION 4. FIRST AID MEASURES

### Most Important Symptom(s)/Effect(s)

**Acute:** Not expected to cause adverse acute health effects.

### Eye Contact

In case of contact, flush eyes with plenty of lukewarm water. Get medical attention if irritation develops.

### Skin Contact

In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Get medical attention if irritation develops and persists.

### Inhalation

If inhaled, remove to fresh air. Get medical attention if irritation develops.

### Ingestion

If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

## SECTION 5. FIREFIGHTING MEASURES

**Suitable Extinguishing Media:** All extinguishing media are suitable.

**Unsuitable Extinguishing Media** No Data Available

### Fire Fighting Procedure

Material Name: PG-1100 Thermo Black Primer	Page 2 of 12 SDS Version 1.1	SDS Version 1.1
---	---------------------------------	-----------------

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

### Hazardous Decomposition Products

By Thermal Decomposition: carbon monoxide, carbon dioxide, Acrylic monomers, other potentially toxic fumes

### Unusual Fire/Explosion Hazards

Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Spill and Leak Procedures

Cleanup personnel must use appropriate personal protective equipment. Cover spill with inert material (e.g., dry sand or earth) and collect for proper disposal.

## SECTION 7. HANDLING AND STORAGE

### Handling/Storage Precautions

Avoid breathing dust, vapor, or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use. Protect from freezing.

### Storage Period:

12 Months

### Storage Temperature

**Minimum:** 1 °C (33.8 °F)  
**Maximum:** 49 °C (120.2 °F)

### Storage Conditions

None known

### Substances to Avoid

None known

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Titanium dioxide (Rutile) (13463-67-7)

US. ACGIH Threshold Limit Values  
Time Weighted Average (TWA): 10 mg/m<sup>3</sup>

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)  
Permissible exposure limit: 15 mg/m<sup>3</sup> (Total dust.)

US. ACGIH Threshold Limit Values  
Hazard Designation: Group A4 Not classifiable as a human carcinogen.

### Carbon Black (1333-86-4)

US. ACGIH Threshold Limit Values  
Time Weighted Average (TWA): 3.5 mg/m<sup>3</sup>

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)  
Permissible exposure limit: 3.5 mg/m<sup>3</sup>

US. ACGIH Threshold Limit Values

Material Name: PG-1100 Thermo Black Primer	Page 3 of 12 SDS Version 1.1	SDS Version 1.1
---	---------------------------------	-----------------

Time Weighted Average (TWA): 3 mg/m3 (Inhalable fraction)

US. ACGIH Threshold Limit Values

Hazard Designation: Group A4 Not classifiable as a human carcinogen

US. ACGIH Threshold Limit Values

Hazard Designation: Group A3 Confirmed animal carcinogen with unknown relevance

**Titanium dioxide (rutile) (1317-80-2)**

US. ACGIH Threshold Limit Values

Time Weighted Average (TWA): 10 mg/m3

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Permissible exposure limit: 15 mg/m3 (Total dust.)

US. ACGIH Threshold Limit Values

Hazard Designation: Group A4 Not classifiable as a human carcinogen

**Crystalline Quartz Silica (14808-60-7)**

US. ACGIH Threshold Limit Values

Time Weighted Average (TWA): 0.025 mg/m3 (Respirable fraction.)

US. OSHA Table Z-3 (29 CFR 1910.1000)

Time Weighted Average (TWA): 2.4 millions of particles per cubic foot of air (Respirable.)The exposure limit is calculated from the equation,  $250/(\%SiO_2+5)$ , using a value of 100% SiO<sub>2</sub>. Lower percentages of SiO<sub>2</sub> will yield higher exposure limits.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Time Weighted Average (TWA): 0.1 mg/m3 (Respirable.)The exposure limit is calculated from the equation,  $10/(\%SiO_2+2)$ , using a value of 100% SiO<sub>2</sub>. Lower percentages of SiO<sub>2</sub> will yield higher exposure limits.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Time Weighted Average (TWA): 0.3 mg/m3 (Total dust.)The exposure limit is calculated from the equation,  $30/(\%SiO_2+2)$ , using a value of 100% SiO<sub>2</sub>. Lower values of % SiO<sub>2</sub> will give higher exposure limits.

US. ACGIH Threshold Limit Values

Hazard Designation: Group A2 Suspected human carcinogen.

Any component which is listed in section 3 and is not listed in this section does not have a known ACGIH TLV, OSHA PEL or supplier recommended occupational exposure limit.

**Industrial Hygiene/Ventilation Measures**

When handling this product, ventilation of the work area is recommended

**Respiratory Protection**

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

**Hand Protection**

Permeation resistant gloves Neoprene gloves.

**Eye Protection**

Chemical safety goggles or safety glasses with side-shields.

Material Name: PG-1100 Thermo Black Primer	Page 4 of 12 SDS Version 1.1	SDS Version 1.1
---	---------------------------------	-----------------

### Skin Protection

Wear as appropriate, disposable one-piece overall with integral hood, impervious protective clothing.

### Additional Protective Measures

Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>State of Matter:</b>	liquid
<b>Color:</b>	Black
<b>Odor:</b>	Mild, Amine
<b>Odor Threshold:</b>	No Data Available
<b>pH:</b>	No Data Available
<b>Freezing Point:</b>	Approximately 0 °C (32 °F) similar to water
<b>Boiling Point:</b>	Approximately 100 °C (212 °F) similar to water
<b>Flash Point:</b>	Not applicable (water based product), however, solid material will support combustion if water has been evaporated.
<b>Evaporation Rate:</b>	No Data Available
<b>Lower Explosion Limit:</b>	No Data Available
<b>Upper Explosion Limit:</b>	No Data Available
<b>Vapor Pressure:</b>	17 mmHg @ 20 °C (68 °F) similar to water
<b>Vapor Density:</b>	No Data Available
<b>Density:</b>	No Data Available
<b>Relative Vapor Density:</b>	No Data Available
<b>Specific Gravity:</b>	1.5
<b>Solubility in Water:</b>	No Data Available
<b>Partition Coefficient: n-octanol/water:</b>	No Data Available
<b>Auto-ignition Temperature:</b>	No Data Available
<b>Decomposition Temperature:</b>	No Data Available
<b>Dynamic Viscosity:</b>	No Data Available
<b>Kinematic Viscosity:</b>	No Data Available
<b>Bulk Density:</b>	

## SECTION 10. STABILITY AND REACTIVITY

### Hazardous Reactions

Hazardous polymerization does not occur.

### Stability

Stable

### Materials to Avoid

None known.

### Hazardous Decomposition Products

By Thermal Decomposition: carbon monoxide, carbon dioxide, Acrylic monomers, other potentially toxic fumes

## SECTION 11. TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure:** Skin Contact  
Eye Contact  
Inhalation

## Health Effects and Symptoms

**Acute:** Not expected to cause adverse acute health effects.

**Chronic:** May cause cancer.

## Toxicity Data for PG-1100 THERMO BLACK PRIMER

No data available for this product.

## Toxicity Data for Titanium dioxide (Rutile)

### **Acute Oral Toxicity**

LD50: > 5000 mg/kg (rat, female) (OECD Test Guideline 425)

### **Acute Inhalation Toxicity**

LC50: > 6.82 mg/l, 4 h (rat, male)

### **Acute Dermal Toxicity**

LD50: > 10000 mg/kg (rabbit)

### **Skin Irritation**

rabbit, OECD Test Guideline 404, Exposure Time: 24 h, Non-irritating

### **Eye Irritation**

rabbit, OECD Test Guideline 405, Non-irritating

### **Sensitization**

dermal: non-sensitizer (Guinea pig, Maximization Test)

dermal: non-sensitizer (Human, Patch Test)

Skin sensitization (local lymph node assay (LLNA)):: negative (mouse, OECD Test Guideline 429)

### **Repeated Dose Toxicity**

28 Days, inhalation: NOAEL: 35 mg/m<sup>3</sup>, (Rat)

29 days, Oral: NOAEL: 24,000 mg/kg, (rat, male, daily)

up to 2 years, inhalation: NOAEL: 0.01 mg/l, (Rat, male/female, 6 hrs/day 5 days/week)

### **Mutagenicity**

Genetic Toxicity in Vitro:

Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)

Mammalian cell - gene mutation assay: negative (Mouse lymphoma cells (L5178Y/TK), Metabolic Activation: with/without)

Chromosome aberration test: negative (Chinese hamster ovary (CHO) cells, Metabolic Activation: with/without)

Genetic Toxicity in Vivo:

Drosophila SLRL test: negative (Drosophila melanogaster) negative

Cytogenetic assay: negative (mouse, male, intraperitoneal) negative

### **Carcinogenicity**

Rat, Male/Female, inhalation, According to IARC, several rat inhalation and intratracheal installation studies using titanium dioxide have shown increases in benign and malignant lung tumors. Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and risk for cancer. Additionally, the IARC working group determined that, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other material, suchr as in paints."

Material Name: PG-1100 Thermo Black Primer	Page 6 of 12 SDS Version 1.1	SDS Version 1.1
---	---------------------------------	-----------------

**Other Relevant Toxicity Information**

May cause irritation of respiratory tract.

**Toxicity Data for Carbon Black****Acute Oral Toxicity**

LD50: > 8000 mg/kg (rat, male/female) (OECD Test Guideline 401)

**Acute Dermal Toxicity**

LD50: > 3000 mg/kg (rabbit)

**Skin Irritation**

rabbit, Non-irritating

**Eye Irritation**

Human, non-irritant

**Sensitization**

Buehler Test: negative (guinea pig, OECD Test Guideline 406)

Skin sensitization (local lymph node assay (LLNA)):: negative (mouse, OECD Test Guideline 429)

**Repeated Dose Toxicity**

13 weeks, Inhalative: NOAEL: 0.0011 mg/kg, (rat, )

**Mutagenicity**

Genetic Toxicity in Vitro:

Salmonella/microsome test (Ames test): negative Mammalian cell - gene mutation assay: positive (other mammalian cell line, Metabolic Activation: without) Micronucleus test: positive (other human cell line, Metabolic Activation: without)

Genetic Toxicity in Vivo:

Other assay: negative (mouse, male, intraperitoneal) negative

**Carcinogenicity**

Several inhalation studies involving carbon black in female rats have shown increases in benign and malignant lung tumors. Although a large body of data on possible mechanisms of carcinogenicity in rats was considered by the IARC Working Group, it was not possible to state with confidence that the mechanisms of carcinogenicity in rats correlate to exposure in humans. Tumors have not been observed in other animal species (i.e., mouse and hamster) under similar circumstances and study conditions.

**Developmental Toxicity/Teratogenicity**

rat, female, Inhalative, 10 days, daily,

**Other Relevant Toxicity Information**

May cause irritation of respiratory tract.

**Toxicity Data for Benzphenone****Acute Oral Toxicity**

LD50: 2895 mg/kg (mouse) (OECD Guideline 401)

**Acute Dermal Toxicity**

LC50: 3535 mg/kg (rabbit)

**Skin Irritation**

Rabbit, OECD Test Guideline 404, Non-irritating

Material Name: PG-1100 Thermo Black Primer	Page 7 of 12 SDS Version 1.1	SDS Version 1.1
---	---------------------------------	-----------------

**Sensitization**

Non-sensitizer: (guinea pig)

Magnusson/Kligmann (Maximization Test); non-sensitizer (Guinea pig)

**Repeated Dose Toxicity**

90d, oral: NOAEL: 20 mg/kg, LOAEL: 100 mg/kg, (rate male/female, daily)

14 weeks, oral: (rat, male/female)

**Mutagenicity**

Genetic Toxicity in Vitro:

Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)

Mammalian cell - gene mutation assay: negative (Mouse lymphoma cells (L5178Y/TK), Metabolic Activation: with/without)

Genetic Toxicity in Vivo:

Micronucleus Assay: negative (mouse, male, intraperitoneal)

negative

**Carcinogenicity**

mouse, female, dermal, life span, No carcinogenic effects observed at the doses tested.

**Toxicity to Reproduction/Fertility**

Two-generation study, Oral, (rat, male/female) NOAEL (parental): 100 ppm, NOAEL (F1): 450 ppm, NOAEL (F2): 450 ppm

**Developmental Toxicity/Teratogenicity**

rat, female, Oral, GD 6-19, daily, NOAEL (maternal): < 100 mg/kg,

**Toxicity Data for Crystalline Quartz Silica****Acute Oral Toxicity**

LD50: 500 mg/kg (rat)

**Mutagenicity**

Genetic Toxicity in Vitro:

Ames: Negative results were reported in various in vitro studies. (Salmonella typhimurium, Metabolic Activation: with/without)

Genetic Toxicity in Vivo:

Sister Chromatid Exchange: ambiguous (hamster) ambiguous

**Carcinogenicity**

rat, Male/Female, inhalation, 2 years, 6 hrs/day 5 days/week, positive

**Toxicity Data for Titanium dioxide (rutile)****Acute Oral Toxicity**

LD50: > 10000 mg/kg (rat)

**Acute Inhalation Toxicity**

LC50: > 6.8 mg/l, 4 h (rat)

**Skin Irritation**

rabbit, Non-irritating

**Eye Irritation**

rabbit, Non-irritating

**Sensitization**

Material Name: PG-1100 Thermo Black Primer	Page 8 of 12 SDS Version 1.1	SDS Version 1.1
---	---------------------------------	-----------------



Skin sensitization (local lymph node assay (LLNA)):: negative (mouse, OECD Test Guideline 429)

#### Repeated Dose Toxicity

29 days, Oral: NOAEL: 24,000 mg/kg, (rat, male, daily) up to 2 years, Inhalation: NOAEL: 0.01 mg/l, (rat, male/female, 6 hrs/day 5 days/week)

#### Mutagenicity

Genetic Toxicity in Vitro:

Other assay: negative, Negative results were reported in various in vitro studies. (Bacillus subtilis)

Mammalian cell - gene mutation assay: negative, Negative results were reported in various in vitro studies.

(Mouse lymphoma cells (L5178Y/TK), Metabolic Activation: with/without) Chromosome aberration test: negative, Negative results were reported in various in vitro studies. (Chinese hamster ovary (CHO) cells, Metabolic Activation: with/without)

Genetic Toxicity in Vivo: Cytogenetic assay: negative (mouse, male, intraperitoneal) negative

#### Carcinogenicity

Rat, Male/Female, inhalation, According to IARC, several rat inhalation and intratracheal installation studies using titanium dioxide have shown increases in benign and malignant lung tumors. Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and risk for cancer.

Additionally, the IARC working group determined that, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other material, such as in paints."

Animal experiments showed a statistically significant number of tumors. Rat, male/female, oral, 103 weeks, daily, No carcinogenic effects observed at the doses tested. Mouse, Male/Female, oral, 103 days, daily, No carcinogenic effects observed at the doses tested.

#### Toxicity to Reproduction/Fertility

Three generation study, oral, (Rat) NOAEL (parental): 5 mg/L (as Titanium), Reproductive effects have been observed in animal studies.

#### Other Relevant Toxicity Information

May cause irritation of respiratory tract.

#### Carcinogenicity:

Titanium dioxide (rutile) IARC - Overall evaluation: 2B Possibly carcinogenic to humans.

Titanium dioxide (Rutile) IARC - Overall evaluation: 2B Possibly carcinogenic to humans.

Carbon Black IARC - Overall evaluation: 2B Possibly carcinogenic to humans.

Benzophenone IARC - Overall evaluation: 2B Possibly carcinogenic to humans.

Crystalline Quartz Silica NTP - Hazard Designation: Known To Be Human Carcinogen.  
IARC - Overall evaluation: 1 Carcinogenic to humans.

## SECTION 12. ECOLOGICAL INFORMATION

No data available for this product.

#### Ecological Data for Titanium dioxide (Rutile)

##### Acute and Prolonged Toxicity to Fish

LC0: > 1,000 mg/l (Golden orfe (Leuciscus idus), 48 h)

##### Acute Toxicity to Aquatic Invertebrates

Material Name: PG-1100 Thermo Black Primer	Page 9 of 12 SDS Version 1.1	SDS Version 1.1
---	---------------------------------	-----------------

EC0: > 3 mg/l (Water flea (Daphnia magna))

**Toxicity to Microorganisms**

EC0: > 10,000 mg/l, (Pseudomonas fluorescens, 24 h)

**Ecological Data for Carbon Black**

**Acute and Prolonged Toxicity to Fish**

LC0: > 1,000 mg/l (Danio rerio (zebra fish), 96 h)

**Acute Toxicity to Aquatic Invertebrates**

EC50: > 5,600 mg/l (Water flea (Daphnia magna), 24 h)

**Toxicity to Microorganisms**

EC0: 100 - 800 mg/l, (Activated sludge microorganisms, 3 h)

**Ecological Data for Benzophenone**

**Biodegradation**

aerobic, 0 %,

0 %, Exposure time: 28 d, i.e. not readily degradable

**Bioaccumulation**

Does not bioaccumulate.

**Acute and Prolonged Toxicity to Fish**

LC50: 15.3 mg/l (Fathead minnow (Pimephales promelas), 96 h)

**Ecological Data for Titanium dioxide (rutile)**

**Additional Ecotoxicological Remarks**

No data available for this component.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method**

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

**Container Precautions**

Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.

**SECTION 14. TRANSPORT INFORMATION**

**Land transport (DOT)**

Non-Regulated

**Sea transport (IMDG)**

Non-Regulated

**Air transport (ICAO/IATA)**

Non-Regulated

**SECTION 15. REGULATORY INFORMATION**

**United States Federal Regulations**

Material Name: PG-1100 Thermo Black Primer	Page 10 of 12	SDS Version 1.1
---	---------------	-----------------

**US. Toxic Substances Control Act:** Listed on the TSCA Inventory.

**US. EPA CERCLA Hazardous Substances (40 CFR 302) Components:**

None

**SARA Section 311/312 Hazard Categories:**

Chronic Health Hazard

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components:**

None

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components:**

1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-

**US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):**

Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.

**State Right-To-Know Information**

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

**Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:**

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
>=1%	Water	7732-18-5
>=1%	Acrylic Polymer	
25 - 35%	Limestone	1317-65-3
0.1 - 1%	Titanium dioxide (rutile)	1317-80-2
5 - 10%	Titanium dioxide (Rutile)	13463-67-7
0.1 - 1%	Carbon Black	1333-86-4
0.1 - 1%	Benzophenone	119-61-9
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

**New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:**

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
0.1 - 1%	Carbon Black	1333-86-4
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

**Massachusetts Right to Know Extraordinarily Hazardous Substance List:**

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

**California Prop. 65:**

Warning! This product contains chemical(s) known to the State of California to be Carcinogenic. Developmental toxin. Female reproductive toxin. Male reproductive toxin.

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
0.1 - 1%	Titanium dioxide (rutile)	1317-80-2
0.1 - 1%	Titanium dioxide (Rutile)	13463-67-7
0.1 - 1%	Carbon Black	1333-86-4
0.1 - 1%	Benzophenone	119-61-9
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

Based on information provided by our suppliers, this product is considered "DRC Conflict Free" as defined by the SEC Conflict Minerals Final Rule (Release No. 34-67716; File No. S7-40-10; Date: 2012-08-22).

## SECTION 16. OTHER INFORMATION

The method of hazard communication for ProGuard Group is comprised of Product Labels and Safety Data Sheets.

Contact: Product Safety Department  
Telephone: 844-776-4273  
Version Date: 05/30/2015  
SDS Version: 1.1

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