

PPG FLO-GARD™ Flow Conditioning, Free-Flow and Carrier Silica

PPG FLO-GARD™ silica products are suitable for use as food/feed additives, as well as for food contact applications as specified in the applicable United States and European regulations.

General Information

NAME:

Precipitated Synthetic Amorphous Silica

DESCRIPTION:

Flo-Gard silicas are synthetic, hydrated amorphous silicas, covered by CAS REGISTRY NUMBER: 112926-00-8 (CAS# 7631-86-9 for TSCA inventory purposes) – Synthetic amorphous precipitated silica (polysilicic acid), EC Number 231-545-4.

COMPOSITION:

Regulatory *Flo-Gard* silica is a single substance; it is 100 percent the precipitated Synthetic Amorphous Silica substance. Qualitatively, SiO₂-Hydrate is the main component, the side products are Sodium salt, (free + bound) water and small traces of metal oxides (e.g., Al₂O₃, CaO, Fe₂O₃) can be present.

STORAGE/SHELF LIFE:

Handling and proper storage is essential to the performance of the product. Silica is hygroscopic and may pick up moisture when stored for a long period of time, even in the best of conditions. PPG recommends that silica products be stored under dry, clean conditions and protected against exposure to other substances. PPG also recommends that products that are stored more than one year from date of manufacture be re-tested for moisture content since this product may pick up moisture. There is no shelf-life limit when stretch-wrapped palletized units or bags are kept under the above stated conditions.

Global Regulatory Information

CHEMICAL INVENTORY STATUS:

- United States inventory (TSCA 8b): All components are listed (active) or exempted.
- Australia inventory (AICS): All components are listed or exempted.
- Canada inventory (DSL): All components are listed or exempted.
- China inventory (IECSC): All components are listed or exempted.
- Japan inventory (ENCS): All components are listed or exempted.
- Korea inventory (KECI): All components are listed or exempted.
- New Zealand (NZIoC): All components are listed or exempted.
- Philippines inventory (PICCS): All components are listed or exempted.
- EU REACH registration: PPG has registered the Synthetic Amorphous Silica (SAS) substance (CAS Registry Numbers 7631-86-9 and 112926-00-8; EC-No. 231-545-4) with the European Chemicals

Agency in Helsinki (ECHA) in compliance with European “Registration, Evaluation and Authorisation of Chemicals” (REACH)

Regulation (1907/2006/EC). Our registration supported the manufacture of this substance at PPG’s factory in Delfzijl, the Netherlands, and through PPG’s appointed Only Representative, PPG Europe B.V., our manufacturing facilities located outside the EU.

- Taiwan inventory (TCSI): All components are listed or exempted.

United States of America (USA) Regulatory Information

FDA STATUS

Precipitated synthetic amorphous silica (CAS-No. 7631-86-9 / 112926-00-8) is Generally Recognized as Safe (GRAS) per their intended uses as listed in US Food and Drug Administration (FDA) regulations 21 CFR Parts 182 and 184. Silicon dioxide (i.e. *Flo-Gard* silica) is specifically approved for use in the following sections of the Food and Drug Administration (FDA), Title 21 Food and Drugs, Code of Federal Regulations (CFR). See specific citations for possible limitations on use:

For direct food contact uses, silicon dioxide is cleared or permitted under:

- 21 CFR 133.146 (Grated Cheese)
- 21 CFR 160.105 and 21 CFR 160.185 (Dried Eggs)
- 21 CFR 172.230 (Flavoring Substances)
- 21 CFR 172.480 (Anticaking Agent)
- 21 CFR 173.340 (Defoaming Agent)
- 21 CFR 573.940 (Animal Feed)

For food contact uses, silicon dioxide is cleared or permitted under:

- 21 CFR 175.105 (Adhesives)
- 21 CFR 177.2420 (Cross-Linked Polyester Resin)
- 21 CFR 177.2600 (Rubber Articles)
- 21 CFR 182.90 (Paper and Paperboard)
- 21 CFR 178.3297 (Indirect Food Additives, Adjuvants, production aids, and sanitizers subpart D-Certain Adjuvants and Production Aids for food contact uses)
- 21 CFR 176.170 (Components of paper and paperboard in contact with aqueous and fatty foods)
- 21 CFR 176.180 (Components of paper and paperboard in contact with dry food)

Silicon dioxide (i.e., *Flo-Gard* silica) is exempted from the tolerance requirements under:

- 21 CFR 182.99 (Adjuvants for Pesticide Chemicals) and is specifically listed as an acceptable inert in pesticide formulations under 40 CFR 180.950 as “silica gel, precipitated, crystalline-free, CAS No. 112926-00-8”

The references above identify the specific clearances in FDA’s regulations for the use of silicon dioxide in food, feed, and food contact applications. Other uses of silicon dioxide in FDA regulated applications also may be acceptable after a review of the proposed use to determine the regulatory status of PPG’s product in applications not covered by the regulations identified above, inquiries must be made in writing to silicacustserv@ppg.com. To avoid delays in providing a response, please be as specific as possible in your inquiry, and provide the complete name of the PPG product that is subject of your request.

FACILITY REGISTRATIONS

FDA Food Safety Modernization Act (FSMA) (Registration of Food Facilities)

- Barberton, Ohio USA (17878922422)
- Delfzijl, The Netherlands (11293247848)
- Westlake, Louisiana USA (17521107262)

Department of Health and Hospital, Office of Public Health Permit to Operate for food additives and preservatives - State of Louisiana (for Westlake, LA facility).

GOOD MANUFACTURING PRACTICES (GMP)

For silica products used in food and feed applications, PPG's GMPs meet the requirements of FDA's regulations in 21 C.F.R. Part 117. GMP written procedures include the following elements:

- Regulatory and Internal Inspections;
- Internal Audit Checklist;
- Critical Control Points Monitoring (including HARP-C);
- Critical Control Points Monitoring (including HACCP);
- Finished Product Analysis;
- Sanitary Operations for Housekeeping for Contractors, Maintenance, and Laborers;
- Lubricant/Chemical Storage & Lubricant Equipment List;
- Detailed Cleaning Procedures;
- Temporary Eating and Smoking Areas;
- Sanitary Facilities and Controls (including Pest Controls)

For silica products used in food contact applications, PPG's GMPs meet the requirements of FDA's regulations in 21 CFR 117 and, in the EU regulation (EC) 2023/2006.

BATF STATUS

Silicon dioxide (i.e. *Flo-Gard* silica) is specifically approved for use in the following section of the Bureau of Alcohol, Tobacco, and Firearms (BATF), Title 27 Alcohol, Tobacco Products and Firearms, Code of Federal Regulations (CFR). It is listed for use under §24.246 (Materials Authorized for Treatment of Wine and Juice). See specific citations for possible limitations on use.

USDA STATUS

Silicon dioxide (i.e., *Flo-Gard* silica) is specifically approved for use in the following section of the U.S. Department of Agriculture (USDA), Title 9 Animals and Animal Products, Code of Federal Regulations (CFR). It is listed for use under 9 CFR 424.21 (Use of Food Ingredients in Preparation and Processing Operations). See specific citations for possible limitations on use.

REGULATORY AND SPECIFIC PRODUCT INFORMATION

- **Bisphenol A**

Based on our current knowledge of these products and the information (such as safety data sheets [SDSs]) provided to PPG by its raw material suppliers, Bisphenol A is not intentionally added to these products and we would not expect Bisphenol A to be present in these products.

- California Proposition 65**
If applicable, the warning statements appear in Section 15, “REGULATORY INFORMATION” on the product U. S. Safety Data Sheet (SDS). Additionally, the SDS provides information to guide users to minimize exposure.
- Consumer Product Safety Improvement Act (“CPSIA”), 15 U.S.C. 2087**
Lead and Phthalates are not intentionally added to PPG’s silica products nor are they expected to be present. Based on our knowledge of the manufacture and handling of the silica products, they would not contain lead in quantities greater than 0.009% or di-(2-ethylhexyl) phthalate (DEHP), dibutyl phthalate (DBP), benzyl butyl phthalate (BBP), diisononyl phthalate (DINP), diisodecyl phthalate (DIDP), or di-n-octyl phthalate (DNOP) in quantities greater than 0.1%.
- HAP Information**
These products do not contain hazardous air pollutants (HAPs) as listed in the Clean Air Act Amendments of 1990, 42 USC 7412(b).
- Ozone-Depleting Chemicals**
These products do not contain ozone-depleting chemicals as listed in 40 CFR 82, Subpart A, Appendix F.
- Per- and Poly- Fluoro Alkyl Substances (PFAS)**
Based on our current knowledge of these products and the information provided to PPG by its raw material suppliers, PPG does not intentionally add and therefore we do not expect these products to contain PFOA (CAS 335-67-1), PFOS (CAS 1763-23-1), PFCA C9-C14, PFAS listed in the US-EPA PFAS chemicals lists (with and without explicit chemical structures), or a non listed substance(s) (e.g. fluoro-silicones) that fits the OECD PFAS definition: <https://www.oecd.org/chemicalsafety/portal-perfluorinated-chemicals/aboutpfass/>. Note that the US EPA PFAS Master List has been replaced with 2 separate lists: “PFASSTRUCTV5 - August 2022” and “PFASDEV2 - August 8th 2021”: <https://comptox.epa.gov/dashboard/chemical-lists/PFASSTRUCT> and <https://comptox.epa.gov/dashboard/chemical-lists/PFASDEV>
- RCRA Hazardous Waste Chemical**
To our knowledge, these products, if discarded or spilled, would not be a regulated hazardous waste under 40 CFR 261, but we have not tested them by the Toxicity Characteristic Leaching Procedure. Consult Product Safety Data Sheet (SDS) for additional information.
- Toxics in Packaging Clearing House (TPCH) (formerly CONEG Regulation / Heavy Materials in Packaging)**
Lead, cadmium, mercury, and hexavalent chromium are not intentionally added to these products and the sum of the incidental concentration levels of these metals does not exceed 100 parts per million (ppm) by weight.
- Toxic Pollutants/Priority Pollutants**
These products do not contain toxic pollutants / priority pollutants as listed in 40 CFR 401.15.
- TSCA**
The constituents of these products are not currently subject to any chemical-specific rules or orders under TSCA Sections 4, 5, 6, 7, 8, and are not currently subject to TSCA section 12(b) export notification requirements.

- **VOC Information**

These products do not contain constituents that qualify as volatile organic compounds based on the definition in 40 CFR 51.100.

- **WADA List of Prohibited Substances**

Substances contained in the January 2018 World Anti-Doping Agency's List of Prohibited Substances and Methods are not intentionally added to these products and we would not expect these substances to be present in these products.

- **NFL List of Prohibited Substances**

Substances contained in the National Football League's List of Prohibited Substances ([list](#) dated 2018), are not intentionally added to these products and we would not expect these substances to be present in these products.

European Union (EU) Regulatory Information

FOOD ADDITIVE

To our knowledge, these products are in agreement with purity criteria defined in EU Directive 231/2012/EC. If these products are used as food additives in conformance with EU Directive 1333/2008/EC (Annex II amended by 438/2013/EC) and 1129/2011/EC, they can be referenced by EU Food Additive Number E551.

FEED ADDITIVE

E551a (Silicic acid, precipitated and dried), *Flo-Gard* silica products, have been registered with the EU Commission as required under regulation 2003/1831/EC (amended 2008/429).

FOOD CONTACT

Our silica products are compliant with EC 1935/2004 which is the Framework Regulation Food Contact Materials have to comply with in Europe.

Synthetic Amorphous Silica is included in Annex I (Union list of authorized monomers, other starting substances, macromolecules obtained from microbial fermentation, additives and polymer production aids) of EU 10/2011 Amendments 2015/174, 2016/1416 and 2017/752. PPG's silica products meet the particle size limitation of "primary particles of 1-100 nm which are aggregated to a size of 0.1 – 1 µm which may form agglomerates within the size distribution of 0.3 µm to the mm size." Through a series of analytical experimentation and theoretical considerations, it can be unambiguously concluded that, once dispersed in a polymeric matrix, precipitated hydrophilic synthetic amorphous silica particles do not leach out when in contact with food, EU 10/2011 does not establish a specific migration limit (SML) for silica; however, based on the fact that it would not migrate from the polymeric matrix, silica would not exceed the implicit SML of 60 mg/kg for finished products as written in Article 11. Furthermore, the inclusion of hydrophilic synthetic amorphous silica in plastics does not induce the formation of non-intentionally added substances (NIAS). Therefore, we can conclude that our silica products are compliant with EU 10/2011 as amended.

REGULATORY AND SPECIFIC PRODUCT INFORMATION

- **End of Life Vehicle (ELV)**

These products have been reviewed with regard to the EU Directive 2000/53/EC. Based on our knowledge of these products and the information on the raw material suppliers' safety data sheets, these products do not contain intentionally added cadmium, hexavalent chromium, lead and mercury.

- **Heavy Metals in Packaging and Packaging Waste**

These products have been reviewed with regard to the EU Directive 94/62/EC. Based on our knowledge of these products and the information on the raw material suppliers' safety data sheets, these products do not contain intentionally added lead, cadmium, mercury, or hexavalent chromium and the incidental concentration level of each of these metals does not exceed 100 parts per million (ppm) by weight.

- **Microplastics**

According to EU regulation 2023/2055 amending Annex XVII to regulation (EC) 1907/2006 (REACH), "microplastics" are defined as solid synthetic polymer (containing) microparticles with carbon atoms in their chemical structure, which are not biodegradable and not soluble. Synthetic Amorphous Silica is an inorganic, carbon-free single substance and thus out of scope of Annex XVII on restrictions of intentionally added microplastics.

- **Per- and Poly- Fluoro Alkyl Substances (PFAS)**

See OECD under US regulations above on page 4

- **Phthalates**

These products have been reviewed with regard to REACH 1907/2006/EC Annex XVII and based on our current knowledge of these products and the information (such as safety data sheets [SDSs]) provided to PPG by its raw material suppliers, bis (2-ethylhexyl) phthalate (DEHP), dibutyl phthalate (DBP), benzyl butyl phthalate (BBP), di-"isononyl" phthalate (DINP), di-"isodecyl" phthalate (DIDP), and di-n-octyl phthalate (DNOP) are not intentionally added to these products

- **RoHS/WEEE**

These products have been reviewed with regard to the EU Directive 2011/65/EC "Restriction on the Use of Certain Hazardous Substances" (RoHS). Based on our knowledge of these products and the information on the raw material suppliers' safety data sheets, these products do not contain cadmium, hexavalent chromium, lead, mercury, polybrominated biphenyls (PBBs) or polybrominated diphenyl ethers (PBDEs) Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) or Diisobutyl phthalate (DIBP) at levels greater than the tolerated maximum concentration values established by the EU Commission Decision 2011/65/EC and amendment (EU) 2015/863 (RoHS 3).

Substances of Very High Concern (SVHC)

We routinely review these products with regard to the substances included in the most recent SVHC candidate list and based on our current knowledge of these products and the information (such as safety data sheets [SDSs]) provided to PPG by its raw material suppliers, these products do not contain any of the substances included in the Candidate List at levels greater than the tolerated maximum concentration values established by the EU Regulation 1907/2006/EC, or above 0.1%, whichever is lower.

- **VOC Information**

These products do not contain constituents that qualify as volatile organic compounds based on the definitions in EU Directives 2010/75/EU, Industrial Emissions Directive and 2004/42/EC, Paint Products Directive.

Other Regulatory Information (outside US and EU)

- **Chinese Food and Food Contact Regulations**

- GB 9685-2016: Table A1 (Food Contact Plastics)
- GB 9685-2016: Table A2 (Food Contact Coatings and Coating Layers)
- GB 9685-2016: Table A3 (Food Contact Rubbers)
- GB 9685-2016: Table A4 (Food Contact Inks)
- GB 9685-2016: Table A5 (Food Contact Adhesives)
- GB 9685-2016: Table A6 (Food Contact Papers and Paperboards)
- GB 1886.245-2016: National Food Safety Standard – Food Additive - Talc
- GB 2760-2014: Standards for Uses of Food Additives
- GB 30616-2020: Food Flavorings
- GB/T 31215-2014: Feed Additive Blender – Guidelines for Sweetener
- GB 1886.359-2022: Food Additive – Gum Base and its ingredients

Our silica products are compliant with these regulations.

- **Mercosur Food and Food Contact Regulations**

- GMC/RES No 11/06: General Harmonized List of Food Additives and their Functional Classes
- GMC/RES No 68/00: Technical Regulation on Synthetic Casings of Regenerated Cellulose
- GMC/RES No 40/15: Technical Regulation on Cellulosic materials, packaging and equipment intended to come into contact with food
- GMC/RES No 63/18: Food additives and their maximum limits for food category 8: Meat and meat products
- GMC/RES No 42/15: Technical Regulation on Cellulosic Materials, Packaging and Equipment intended to be in contact with food during cooking or baking
- GMC/RES No 34/10: Authorized food additives for their use according to GMP
- GMC/RES No 39/19: Technical Regulation on the positive list of additives for the preparation of plastic materials and polymeric coatings in contact with food
- GMC/RES No 07/18: Technical Regulation on Milk Powder, Standards of Identity and Quality
- GMC/RES 10/06: Technical Regulation on flavours
- GMC/RES No 41/15: Technical Regulation on Cellulosic materials for cooking and hot filtration

Our silica products are compliant with these regulations.

- **Japan Positive List for Food Contact Materials**

The Japanese Ministry of Health, Labor, and Welfare amended Notification No. 370 to provide for Positive List (PL) of the components used in contact with food. See: MHLW Notification No. 195 and No. 196 of 2020. The PL System took effect on June 1, 2020. This means that additives and coating agents used for food-contact will need to be on the new Japanese PL System. Synthetic Amorphous Silica (CAS-No. 112926-00-8) is present on Table 2: Additives and coating agents, No.378 with the remark it can be applied at not more than 600 mg/m².

- **Swiss Ordinance (RS 817.023.21)**

Silicon dioxide is listed in Annex 10 of the Swiss Ordinance on Materials and Articles In Contact with Food issued by the FDHA on *1 February 2024*.

- **Canada (C.R.C., c. 870)**

Silicon dioxide (i.e. Flo-Gard™ silica products) is a permitted food additive in Canada under Division 16 of the Food and Drugs Regulations (C.R.C., c. 870) as an anticaking agent in unstandardized dry mixes and foods sold in tablet form at levels consistent with GMP and in salt, icing sugar and certain spices and seasonings at levels ranging from 0.5 to 2.0% depending on the food. It is also permitted

for use as a suspending agent in edible vegetable oil-based cookware coating emulsions at a maximum level of use of 2.0% of the preparation. Please refer to C.R.C., c. 870 for more information.

Certifications and Listings

PPG Certifications are available [here](#).

- **Quality Management System**

We maintain certification under ISO 9001 (Lloyd's Register Group Limited is our registrar).

- **Food Safety Management System**

Certified under FSSC 22000, a GFSI-recognized food safety scheme (Det Norske Veritas (DNV) is our registrar for Westlake, LA and Delfzijl, Netherlands *Flo-Gard* silica products in small bags.)

Certified under GMP+ B1, a recognized food safety scheme for animal feed. (Det Norske Veritas (DNV) is our registrar for Delfzijl, Netherlands *Flo-Gard* silica products in small bags.)

- **Halal**

These products are Halal certified by the Islamic Food and Nutritional Council of America (IFANCA).

- **Kosher**

The Orthodox Union certifies these products Kosher for Passover and year-round use.

- **Food Chemical Codex** These products meet the Food Chemical Codex specifications (*Thirteenth Edition*).

- **NAFTA Status**

NAFTA status and NAFTA Certificates of Origin, where applicable, are available by email request to NAFTA@ppg.com

Additional Product Information Source

- **Source** These products are derived from mineral and synthetic sources and have not been derived from a plant, animal, petroleum, or fermentation source.
- **Processing / Manufacturing** *Water is the only solvent used in our manufacturing process.* No post treatment is applied to these products. Sewage sludge, ionizing radiation and pesticides are not used in the manufacturing process.
- Because *Flo-Gard* silica products are synthetic (see source and processing above), the following items are applicable:
 - **Nutritional Value** These products do not have nutritional value (0 g Protein, Carbohydrates and Fats and 0 kJ Energy per 100 grams). These products are routinely tested and contain less than 1 weight % sodium.
 - **Bovine Spongiform Encephalopathy** These products are not of animal origin, and, to the best of our knowledge, do not contribute to Transmissible Spongiform Encephalopathy (TSE) / Bovine Spongiform Encephalopathy (BSE).
 - **Genetically Modified Organisms (GMOs)/Bio-engineered (BE)** *Flo-Gard* silica products are not manufactured with and do not contain genetically modified organisms.
 - **Natural Latex Rubber** These products are not manufactured with and do not contain natural latex rubber, a material defined in 21 CFR 801.437 (b)(1).

- **Organic** Silicon dioxide (i.e. *Flo-Gard* silica) is classified as an “allowed synthetic” under CFR Title 7: Agriculture, PART 205—NATIONAL ORGANIC PROGRAM, Subpart G—Administrative, § 205.605 Nonagricultural (non-organic) substances allowed as ingredients in or on processed products labeled as “organic” or “made with organic (specified ingredients or food groups(s))”, part (b) Synthetics allowed.
- **Vegetarian Status**
Flo-Gard silica products can be used for Vegan and (ovo-) lacto-vegetarian diets. Typically, no animal testing has been conducted on Synthetic Amorphous Silica unless it is required by law/government.
- **Melamine**
Based on our current knowledge of these products and the information (such as safety data sheets [SDSs]) provided to PPG by its raw material suppliers melamine is not intentionally added to these products and we would not expect Melamine to be present in these products.
- **Mineral Oil Hydrocarbons (MOH)**
Mineral Oil Hydrocarbons (MOH) – including Mineral Oil Saturated Hydrocarbons (MOSH) and Mineral Oil Aromatic Hydrocarbons (MOAH) – are not intentionally added to this product and we would not expect these substances to be present in this product
- **Partially Hydrogenated Oils (PHO)**
Partially Hydrogenated Oils (PHO) are not intentionally added to this product and we would not expect these substances to be present in this product.

LISTINGS

FOOD ALLERGENS

- *Flo-Gard* silica products are not manufactured with and do not contain allergens. PPG has a documented allergen management plan in place to prevent allergen cross-contamination.
- **ALBA list and Allergens** (as identified by the U.S. Food and Drug Administration in Compliance Policy Guide), **Sec. 555.250 Statement of Policy for Labeling and Preventing Cross-contact of Common Food Allergens, Issued: 04/19/2001**. Allergens listed in this policy are not intentionally added to the products and we would not expect them to be present in these products.
- **Australia New Zealand Food Standards Code (Labeling)**
Peanuts, tree nuts, soy, milk, egg, cereals, seafood, fish sesame or derivatives and sulfites (in concentration ≥ 10 ppm) are not intentionally added to the products and we would not expect them to be present in these products.
- **Australia New Zealand Food Standards Code (Labeling)**
Peanuts, tree nuts, soy, milk, egg, cereals, seafood, fish sesame or derivatives and sulfites (in concentration ≥ 10 ppm) are not intentionally added to the products and we would not expect them to be present in these products.

- **Canada Gazette, PART II (CGII) Food Allergen Labeling Requirements - August 4, 2012**
Eggs, milk, mustard, peanuts, seafood (fish, crustaceans, shell fish), sesame, soy, sulfites, tree nuts, and wheat are not intentionally added to the products and we would not expect them to be present in these products.
- **CODEX Labeling of Prepackaged Foods (CODEX STAN 1-1985)**
Cereals containing gluten; i.e., wheat, rye, barley, oats, spelt or their hybridized strains and products of these; Crustacea and products of these; Eggs and egg products; Fish and fish products; Peanuts, soy beans and products of these; Milk and milk products (lactose included); Tree nuts and nut products; and Sulphite in concentrations of 10 mg/kg or more are not intentionally added to the products and we would not expect them to be present in these products.
- **EU Directive 2014/78/EC (Amending Annex II of Regulation 1169/2011/EC).**
Allergens listed in this policy are not intentionally added to the products and we would not expect them to be present in these products.
- **Food Allergen Labeling and Consumer Protection Act of 2004 (Public Law 108-282, Title II)**
Milk, eggs, fish, crustacean shellfish, tree nuts, sesame, peanuts, wheat, gluten and soybeans are not intentionally added to the products and we would not expect them to be present in these products.

Corporate Responsibility / Policies

CORPORATE RESPONSIBILITY

Our environment, health and safety (EHS) policy provides the guidelines under which we manufacture, market and distribute products globally in a manner that protects our people, neighbors, customers and the environment. The policy incorporates elements from several voluntary global industry initiatives in which we are a participant, including the American Chemistry Council's RESPONSIBLE CARE® program.

For more information on sustainability goals and progress visit: <https://sustainability.ppg.com/>

CORPORATE POLICIES

Additional PPG Policies and Practices regarding how PPG engages employees, ethics and compliance training, Human rights, Corporate Reporting Incident Rate, Employee Engagement and Development can be found at the following sites:

- PPG Ethics, Compliance, and Human Rights:
<https://corporate.ppg.com/Our-Company/Ethics>
- PPG Corporate Sustainability: To fulfill our purpose to Protect and Beautify the World, we are committed to delivering lasting value for all stakeholders. As One PPG, we operate with integrity, work safely, protect the environment for current and future generations, create a diverse, equitable and inclusive workplace, and engage and support the communities where we operate:
<https://sustainability.ppg.com/>
 - PPG Employees and the Workplace:
<https://sustainability.ppg.com/People>
 - PPG Policies Addressing Employee Engagement:
<https://sustainability.ppg.com/People/Engagement>
 - PPG Community Engagement Strategy:
<https://sustainability.ppg.com/community/community-engagement-strategy>

- Conflict Minerals Sourcing Policy
PPG is aware of Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Act and the Securities and Exchange Commission's (SEC) final rules requiring PPG to publicly disclose its use of certain conflict minerals. PPG has adopted a conflict minerals policy, and on June 2, 2014, PPG filed its initial conflict minerals report with the SEC describing its due diligence efforts. Both of these documents are available at: <https://sustainability.ppg.com/Governance/conflict-minerals>
Tantalum, tin, tungsten, and gold are not intentionally added to these products.
- The California Transparency in Supply Chains Act of 2010:
In January of 2012, the State of California enacted legislation (The California Transparency in Supply Chains Act of 2010 – S.B. 657) that requires retailers and manufacturers doing business in California to disclose their efforts to combat slavery and human trafficking, and to eliminate it from their direct supply chains.

SECURITY

- PPG professionals develop, implement and audit the corporation's global security policies. In compliance with PPG Corporate Policy, each PPG facility has established procedures to control access of employees, contractors, customers, other visitors and vehicles to the site while restricting access of unauthorized personnel. These procedures help to assure PPG's ability to control who and what enters PPG facilities and have a record at any given time of who is on the premises.

In addition, PPG conducts background checks on all of its employees and provides guidelines for contractors to conduct background checks on all of its employees who will be assigned to PPG facilities. Initial and random drug screening of employees also helps to protect the integrity of PPG products.

PPG monitors local and specific threats via communication with governmental organizations such as the FBI and Coast Guard and Industry groups such as the Overseas Advisory Council (OSAC) and the American Chemistry Council (ACC). PPG maintains relationships with government law enforcement agencies, wherever it does business, to cooperate with them and to share information that best serves all constituents.

References

PPG SILICA WEBSITE www.ppgsilica.com

Contact Information: For specific inquiries, please contact your PPG sales or customer service representative at:

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