# SAFETY DATA SHEET

**SILVER GRAY (PE) RAL7001**

## Section 1. Identification

| | | |
|---|---|---|
| **GHS product identifier** | : | SILVER GRAY (PE) RAL7001 |
| **Chemical name** | : | Mixture |
| **CAS number** | : | Mixture |
| **Other means of identification** | : | CC10209903 |
| **Product type** | : | solid |

**Relevant identified uses of the substance or mixture and uses advised against**

| | | |
|---|---|---|
| **Product use** | : | Industrial applications. |
| **Supplier's details** | : | **AVIENT CORPORATION**<br>33587 Walker Road, Avon Lake, OH 44012<br><br>1 (440) 930-1000 or 1 (844) 4AVIENT |
| **Emergency telephone number (with hours of operation)** | : | CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident). |

## Section 2. Hazards identification

| | | |
|---|---|---|
| **OSHA/HCS status** | : | 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. |
| **Classification of the substance or mixture** | : | Not classified. |

**GHS label elements**

| | | |
|---|---|---|
| **Signal word** | : | No signal word. |
| **Hazard statements** | : | No known significant effects or critical hazards. |

**Precautionary statements**

| | | |
|---|---|---|
| **Prevention** | : | Not applicable. |
| **Response** | : | Not applicable. |
| **Storage** | : | Not applicable. |

| | | |
|---|---|---|
| **Disposal** | : | Not applicable. |
| **Hazards not otherwise classified** | : | None known. |
| **Hazards identified when used** | : | No known significant effects or critical hazards. |

# Section 3. Composition/information on ingredients

| | | |
|---|---|---|
| **Substance/mixture** | : | Mixture |
| **Chemical name** | : | SILVER GRAY (PE) RAL7001 |
| **Other means of identification** | : | SILVER GRAY (PE) RAL7001 |

| Ingredient name | Synonyms | % | Identifiers |
|---|---|---|---|
| Titanium oxide | Titanium dioxide | >= 15 - <= 40 | CAS: 13463-67-7 |
| Aluminum hydroxide | aluminium hydroxide | >= 0.5 - <= 1.5 | CAS: 21645-51-2 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| **Skin contact** | : | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| **Ingestion** | : | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |

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

**Potential acute health effects**

| | | |
|---|---|---|
| **Eye contact** | : | No known 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/symptoms**

| | | |
|---|---|---|
| **Eye contact** | : | No specific data. |
| **Inhalation** | : | No specific data. |
| **Skin contact** | : | No specific data. |
| **Ingestion** | : | No specific data. |

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

| | | |
|---|---|---|
| **Notes to physician** | : | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| **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** | : | In case of fire, use water spray (fog), foam, dry chemical or $CO_2$. |
| **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: carbon dioxide, carbon monoxide, nitrogen oxides, 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 should wear appropriate protective equipment and self- |

| | |
|---|---|
| **fire-fighters** | contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

## Section 6. Accidental release measures

**Personal precautions, protective 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 containment and cleaning up**

| | | |
|---|---|---|
| **Small spill** | : | Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. |
| **Large spill** | : | Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. |

## 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| **Conditions for safe storage, including any incompatibilities** | : | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and |

drink. Keep container tightly closed and sealed until ready 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.

# Section 8. Exposure controls/personal protection

**Control parameters**

**Occupational exposure limits**

| Ingredient name | Exposure limits |
|---|---|
| Titanium oxide | **CAL OSHA PEL (2018-05-16). [titanium dioxide as Ti]**<br>TWA 8 hours: 10 mg/m3 (as Ti) Form: Total dust<br>TWA 8 hours: 5 mg/m3 (as Ti) Form: Respirable fraction<br>**ACGIH TLV (2022-01-06). [titanium dioxide finescale particles] A3.**<br>TWA 8 hours: 2.5 mg/m3 Form: respirable fraction, finescale particles<br>**ACGIH TLV (2022-01-06). [titanium dioxide nanoscale particles] A3.**<br>TWA 8 hours: 0.2 mg/m3 Form: respirable fraction, nanoscale particles<br>**OSHA PEL 1989 (1989-03-01). [Titanium dioxide]**<br>TWA 8 hours: 10 mg/m3 Form: Total dust<br>**OSHA PEL (1993-06-30). [Titanium dioxide]**<br>TWA 8 hours: 15 mg/m3 Form: Total dust |
| Aluminum hydroxide | **ACGIH TLV (2008-01-01). [Aluminum, metal and insoluble compounds] A4.**<br>TWA 8 hours: 1 mg/m3 Form: Respirable fraction |

**Biological exposure indices**

No exposure indices known.

**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. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures**

| | | |
|---|---|---|
| **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. |
| **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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**Appearance**

| | | |
|---|---|---|
| **Physical state** | : | solid [Pellets.] |
| **Color** | : | GREY |
| **Odor** | : | Faint odor. |
| **Odor threshold** | : | Not available. |
| **pH** | : | Not available. |
| **Melting point/freezing point** | : | Not available. |

| | | |
|---|---|---|
| **Boiling point or initial boiling point and boiling range** | : | Not available. |
| **Flash point** | : | Not applicable. |
| **Evaporation rate** | : | Not available. |
| **Flammability** | : | Not available. |
| **Lower and upper explosion limit/flammability limit** | : | **Lower:** Not applicable.<br>**Upper:** Not applicable. |
| **Vapor pressure** | : | Not available. |
| **Relative vapor density** | : | Not applicable. |
| **Relative density** | : | Not available. |
| **Solubility in water** | : | insoluble in water. |
| **Partition coefficient: n-octanol/water** | : | Not applicable. |
| **Auto-ignition temperature** | : | Not applicable. |
| **Decomposition temperature** | : | Not available. |
| **Viscosity** | : | **Dynamic :** Not available.<br>**Kinematic :** Not applicable. |

**Particle characteristics**

| | | |
|---|---|---|
| **Median particle size** | : | Not available. |

## Section 10. Stability and reactivity

| | | |
|---|---|---|
| **Reactivity** | : | No specific test data related to reactivity available for this product or its ingredients. |
| **Chemical stability** | : | Stable under recommended storage and handling conditions (see Section 7). |
| **Possibility of hazardous reactions** | : | Under normal conditions of storage and use, hazardous reactions will not occur. |
| **Conditions to avoid** | : | Keep away from extreme heat and oxidizing agents. |
| **Incompatible materials** | : | Keep away from strong acids. Oxidizer. |
| **Hazardous decomposition products** | : | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

# Section 11. Toxicological information

**Information on toxicological effects**

**Acute toxicity**

| Product/ingredient name | Result |
|---|---|
| Titanium oxide | **Rabbit - Dermal - LD50**<br>> 5,000 mg/kg<br><br>**Rat - Male - Inhalation - LC50 Dusts and mists**<br>6.82 Mg/l [4 h] |

**Conclusion/Summary** : Mixture.Not fully tested.

**Skin corrosion/irritation**

**Conclusion/Summary** : Mixture.Not fully tested.

**Serious eye damage/eye irritation**

**Conclusion/Summary** : Mixture.Not fully tested.

**Respiratory corrosion/irritation**

**Conclusion/Summary** : Mixture.Not fully tested.

**Respiratory or skin sensitization**

**Skin**

**Conclusion/Summary** : Mixture.Not fully tested.

**Respiratory**

**Conclusion/Summary** : Mixture.Not fully tested.

**Germ cell mutagenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Carcinogenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Classification**

| Product/ingredient name | OSHA | IARC | NTP |
|---|---|---|---|
| Titanium oxide | - | 2B | - |
| Aluminum hydroxide | - | - | - |

**Reproductive toxicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Information on the likely routes of exposure**

Not available.

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

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

**Short term exposure**

**Potential immediate effects** : Not available.
**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.
**Potential delayed effects** : Not available.

**Potential chronic health effects**

Not available.

**Conclusion/Summary** : Mixture.Not fully tested.

**General** : No known significant effects or critical hazards.
**Carcinogenicity** : No known significant effects or critical hazards.
**Mutagenicity** : No known significant effects or critical hazards.
**Reproductive toxicity** : No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates**

| Product/ingredient name | Oral | Dermal | Inhalation (gases) | Inhalation (vapors) | Inhalation (dusts and mists) |
|---|---|---|---|---|---|
| Titanium oxide | N/A | N/A | N/A | N/A | 6.82 Mg/l |

# Section 12. Ecological information

**Toxicity**

| Product/ingredient name | Result |
|---|---|
| SILVER GRAY (PE) RAL7001 | **Remarks:** Chemicals are not readily available as they are bound within the polymer matrix. |
| Titanium oxide | **Acute LC50 Marine water** |

| | |
|---|---|
| | Fish - *Fundulus heteroclitus*<br>> 1,000 Mg/l [96 h]<br>**Acute LC50 Fresh water**<br>Crustaceans - *Ceriodaphnia dubia*<br>3 Mg/l [48 h]<br>**Acute LC50 Fresh water**<br>Daphnia - *Daphnia pulex*<br>6.5 Mg/l [48 h] |

**Conclusion/Summary** : Not available.

**Persistence and degradability**

Not available.

**Conclusion/Summary** : Chemicals are not readily available as they are bound within the polymer matrix.

**Bioaccumulative potential**

Not available.

**Mobility in soil**

**Soil/Water partition coefficient** : Not available.
**Mobility** : Chemicals are not readily available as they are bound within the polymer matrix.

**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 at all times 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 unless fully compliant with the requirements of all authorities with jurisdiction. 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

| | | |
|---|---|---|
| U.S.DOT 49CFR Ground/Air/Water | : | Not regulated for transportation. |
| IATA | : | Not classified as dangerous goods under transport regulations. |
| IMDG | : | Not classified as dangerous goods under transport regulations. |

# Section 15. Regulatory information

**U.S. Federal regulations**

**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined

**TSCA 12(b) - Chemical export notification**

Not applicable.

| | | |
|---|---|---|
| **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**

**Composition/information on ingredients**

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312**

**Classification** : Not applicable.

**Composition/information on ingredients**

No products were found.

**State regulations**

**Massachusetts** : The following components are listed:
Titanium oxide

**New York** : None of the components are listed.

**New Jersey** : The following components are listed:
TITANIUM DIOXIDE
CARBON BLACK

**Pennsylvania** : The following components are listed:
TITANIUM OXIDE

**California Prop. 65**

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

| Ingredient name | No significant risk level | Maximum acceptable dosage level |
|---|---|---|
| Titanium dioxide | - | - |
| Carbon black | - | - |

**International regulations**

**Chemical Weapon Convention List Schedules I, II & III Chemicals**

**Chemical Weapons Convention List Schedule I Chemicals**
None of the components are listed.

**Chemical Weapons Convention List Schedule II Chemicals**
None of the components are listed.

**Chemical Weapons Convention List Schedule III Chemicals**

None of the components are listed.

**Montreal Protocol**
None of the components are listed.

**Stockholm Convention on Persistent Organic Pollutants**

**Annex A - Elimination - Production**
None of the components are listed.

**Annex A - Elimination - Use**
None of the components are listed.

**Annex B - Restriction - Production**
None of the components are listed.

**Annex B - Restriction - Use**
None of the components are listed.

**Annex C - Unintentional - Production**
None of the components are listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**

**Rotterdam Convention on Prior Informed Consent (PIC) - Industrial**
None of the components are listed.

**Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide**
None of the components are listed.

**Rotterdam Convention on Prior Informed Consent (PIC) -Severely hazardous pesticide**
None of the components are listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

**Heavy metals - Annex 1**
None of the components are listed.

**POPs - Annex 1 - Production**
None of the components are listed.

**POPs - Annex 1 - Use**
None of the components are listed.

**POPs - Annex 2**
None of the components are listed.

**POPs - Annex 3**

None of the components are listed.

**Inventory list**

| | | |
|---|---|---|
| **Australia** | : | All components are listed or exempted. |
| **Canada** | : | All components are listed or exempted. |
| **China** | : | All components are listed or exempted. |
| **Eurasian Economic Union** | : | **Russian Federation inventory:** All components are listed or exempted. |
| **Japan** | : | **Japan inventory (CSCL)**: All components are listed or exempted.<br>**Japan inventory (ISHL)**: Not determined. |
| **New Zealand** | : | All components are listed or exempted. |
| **Philippines** | : | All components are listed or exempted. |
| **Republic of Korea** | : | All components are listed or exempted. |
| **Taiwan** | : | Not determined.All components are listed or exempted. |
| **Thailand** | : | All components are listed or exempted. |
| **Turkey** | : | Not determined. |
| **United States** | : | All components are active or exempted. |
| **Viet Nam** | : | All components are listed or exempted. |

# Section 16. Other information

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

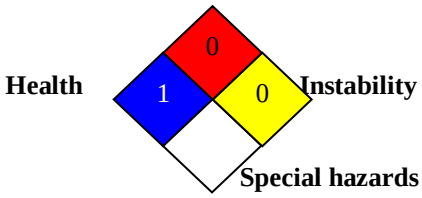
| | | |
|---|---|---|
| **Health** | / | 0 |
| **Flammability** | | 0 |
| **Physical hazards** | | 0 |
| | | |

**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 and the associated label are not required on SDSs or products leaving a facility 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 trademark and service mark of the American Coatings Association, Inc.**

**The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.**

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

**Flammability**




**Procedure used to derive the classification**
Not classified.

**History**

| | | |
|---|---|---|
| **Date of printing** | : | 11/21/2025 |
| **Date of issue/Date of revision** | : | 11/20/2025 |
| **Date of previous issue** | : | 04/20/2021 |
| **Version** | : | 1.2 |
| **Prepared by** | : | GHATES |
| **Key to abbreviations** | : | ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>DOT = Department of Transportation<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Intermediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>IMO = International Maritime Organization<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>N/A = Not available<br>SGG = Segregation Group<br>TDG = Transportation of Dangerous Goods<br>UN = United Nations |
| **References** | : | Not available. |

**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. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.**