Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
Platia™

Synonyms
Mirrored Float Glass.

Chemical Family
Glass

Product Description
This material is considered an 'article'. The end use is dependent upon the manufactured shape and design, and this article will not pose an exposure hazard under normal conditions.

Product Use
Glass. This material is an article.

Restrictions on Use
None known.

Details of the supplier of the safety data sheet
Vitro Flat Glass LLC (Vitro)
400 Guys Run Road
Cheswick, PA 15024
Phone: Technical Phone Number: 1-855-887-6457 (9:00 AM – 4:00 PM EST)
Emergency Phone #: Emergency Phone Number: 1-866-290-7653

SECTION 2: Hazards identification

Classification in accordance with NOM-018(2015)
None needed according to classification criteria.

GHS Label Elements
Symbol(s)
None needed according to classification criteria.

Signal Word
None needed according to classification criteria

Hazard Statement(s)
None needed according to classification criteria.

Precautionary Statement(s)
Prevention
None needed according to classification criteria.

Response
None needed according to classification criteria.

Storage
None needed according to classification criteria.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazards
Sanding and grinding this article can generate nuisance dust particles. Sanding and grinding dusts may be irritating to eyes and respiratory system.
SECTION 3: Composition / information on ingredients

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>65997-17-3</td>
<td>Glass, oxide, chemicals</td>
<td>60-100</td>
</tr>
<tr>
<td>1314-13-2</td>
<td>Zinc oxide (ZnO)</td>
<td>0.122-0.237</td>
</tr>
<tr>
<td>155-04-4</td>
<td>Zinc mercaptobenzothiazole</td>
<td>0.056-0.108</td>
</tr>
<tr>
<td>7440-22-4</td>
<td>Silver</td>
<td>0.007-0.013</td>
</tr>
</tbody>
</table>

Component Related Regulatory Information
This product may be regulated and have exposure limits as identified in Section 8. Processing of this article may produce dusts or fumes which are considered hazardous. Activities that generate dust from these coated glass products should be evaluated to determine if any regulatory exposure limits are exceeded. If exposure limits are exceeded for dust/metal, appropriate engineering controls (e.g., ventilation/HEPA filters) and/or personal protective equipment (e.g., respirators) should be provided. Composition consisting primarily of oxides of silicon with lesser quantities of other selected oxides common to soda-lime glasses, fused into an amorphous vitreous state.

SECTION 4: First aid measures

Inhalation
(Sanding and grinding dust): May cause transient, mechanical irritation. Move person to non-contaminated air. Call a physician if symptoms persist.

Skin
(Sanding and grinding dust): May cause transient, mechanical irritation. Cuts or abrasions should be treated promptly with thorough cleansing of the affected area.

Eyes
(Sanding and grinding dust): In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion
Not a likely route of exposure. However, if the material is swallowed, injuries from glass particles may result. Do not induce vomiting; get immediate medical attention. (Sanding and grinding dust): May cause transient, mechanical irritation.

Most Important Symptoms/Effects
Acute
No information on significant adverse effects.

Delayed
No information on significant adverse effects.

Note to Physicians
Treat symptomatically.

SECTION 5: Fire fighting measures

Extinguishing Media
Suitable Extinguishing Media
Use methods for the surrounding fire.

Unsuitable Extinguishing Media
None identified.

Special Hazards Arising from the Chemical
This material will not burn.

Hazardous Combustion Products
None known.

Fire Fighting Measures
Move material from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out.

Special Protective Equipment and Precautions for Firefighters
Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

SECTION 6: Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures
Wear personal protective clothing and equipment, see Section 8.

Environmental Precautions
Do not flush into sanitary sewer systems, drains or surface water.

Methods and Materials for Containment and Cleaning Up
Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusts. Collect breakage or dust using a vacuum cleaner with a HEPA filter. Place in a closed container. Regulations vary. Consult local authorities before disposal. Glass products may be recycled.

SECTION 7: Handling and storage

Precautions for Safe Handling
(Sanding and grinding dust): Do not inhale dusts. Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid generation of airborne dusts. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Put on appropriate personal protective equipment (see Section 8). Sharp edges of glass may cause mechanical injury. Contact with rough or sharp edges may cause cuts or abrasions. Take care with items that are sharp or heavy. These safety concerns should be addressed with proper personal protective equipment to protect oneself against any sharp edges, including those formed by accidental glass fracture during handling. Sanding (a.k.a. seaming or edging) any sharp glass edges to produce rounded edges also reduces the hazards of being cut by sharp edges.

Conditions for Safe Storage, Including any Incompatibilities
None needed according to classification criteria.
Store in a dry place away from excessive moisture and exhaust fumes from fork trucks or other such equipment. Support glass in cases on both sides when stored vertically. Glass packs and open cases should be stored at a 3° to 5° lean angle to prevent glass from falling forward.

Incompatible Materials
None known.

SECTION 8: Exposure controls/personal protection

Component Exposure Limits

| Glass, oxide, chemicals | 65997-17-3 |
ACGIH: 10 mg/m³ TWA inhalable particles, recommended; 3 mg/m³ TWA respirable particles, recommended (related to Particulates not otherwise classified (PNOC))

<table>
<thead>
<tr>
<th>Material</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc oxide (ZnO)</td>
<td>1314-13-2</td>
</tr>
<tr>
<td>Silver</td>
<td>7440-22-4</td>
</tr>
</tbody>
</table>

Mexico - Biological Exposure Indices
There are no biological limit values for any of this product's components.

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)
There are no biological limit values for any of this product's components.

Engineering Controls
If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. The ventilation system should be equipped with a HEPA (High Efficiency Particulate Air) filter with efficiency greater than 99.9%.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection
Wear safety glasses with side shields.

Skin Protection
Wear leather or other appropriate work gloves, if necessary for type of operation. Use of coveralls is recommended.

Respiratory Protection
(Sanding and grinding dust). If permissible levels are exceeded, use NIOSH approved dust respirator. If the action level for lead is approached, respiratory protection as specified in 29 CFR 1910.1025 must be used. 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.

Glove Recommendations
Rubber dipped anti-lacerative gloves are recommended.

Protective Materials
Use good hygiene practices when handling this material including changing and laundering work clothing after use.

SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>clear glass</td>
</tr>
<tr>
<td>Odor</td>
<td>odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical State</td>
<td>solid</td>
</tr>
<tr>
<td>Color</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
</tbody>
</table>
Melting Point | 685 - 740 °C | Boiling Point | Not available
--- | --- | --- | ---
Boiling Point Range | Not available | Freezing point | Not available
Evaporation Rate | Not available | Flammability (solid, gas) | Not available
Autoignition Temperature | Not available | Flash Point | Not available
Lower Explosive Limit | Not available | Decomposition temperature | Not available
Upper Explosive Limit | Not available | Vapor Pressure | Not available
Vapor Density (air=1) | Not available | Specific Gravity (water=1) | Not available
Water Solubility | (Insoluble) | Partition coefficient: n-octanol/water | Not available
Viscosity | Not available | Kinematic viscosity | Not available
Solubility (Other) | Not available | Density | 2.5 g/cm³
Physical Form | solid | Molecular Weight | Not available

**SECTION 10: Stability and reactivity**

**Reactivity**
No hazard expected.

**Chemical Stability**
Stable.

**Possibility of Hazardous Reactions**
None known.

**Conditions to Avoid**
None known.

**Incompatible Materials**
None known.

**Hazardous decomposition products**
None known.

**SECTION 11: Toxicological information**

**Information on Likely Routes of Exposure**

**Inhalation**
(Sanding and grinding dust): Dusts of this product may cause irritation of the nose, throat, and respiratory tract. When inhaled in very large amounts, damage to the lung can occur.

**Skin Contact**
(Sanding and grinding dust): Dust or powder may irritate the skin. Mechanical rubbing may increase skin irritation.

**Eye Contact**
(Sanding and grinding dust): Dust or powder may irritate eye tissue. Rubbing may cause abrasion of cornea.

**Ingestion**
(Sanding and grinding dust). May cause temporary irritation of the throat, stomach, and gastrointestinal tract.
Acute and Chronic Toxicity
(Sanding and grinding dust): Dusts of this product may cause irritation of the nose, throat, and respiratory tract. Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. Higher exposures may cause difficulty breathing, congestion, and chest tightness. When inhaled in very large amounts, damage to the lung can occur.

Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:

- **Zinc oxide (ZnO)** (1314-13-2)
  Oral LD50 Rat >5000 mg/kg (in water; no deaths occurred)

- **Zinc mercaptobenzothiazole** (155-04-4)
  Oral LD50 Rat 5505 mg/kg
  Dermal LD50 Rabbit >2000 mg/kg (no deaths occurred)

- **Silver** (7440-22-4)
  Oral LD50 Rat >5000 mg/kg
  Dermal LD50 Rat >2000 mg/kg (males)

Product Toxicity Data

<table>
<thead>
<tr>
<th></th>
<th>Acute Toxicity Estimate</th>
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</thead>
<tbody>
<tr>
<td>Dermal</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td>&gt; 5000 mg/kg</td>
</tr>
</tbody>
</table>

Immediate Effects
(Sanding and grinding dust): Dust or powder may be irritating to the eyes, skin, respiratory system and gastrointestinal tract.

Delayed Effects
No information on significant adverse effects.

Irritation/Corrosivity Data
(Sanding and grinding dust): respiratory tract irritation, skin irritation, eye irritation.

Respiratory Sensitization
No information available for the product.

Dermal Sensitization
No information available for the product.

Component Carcinogenicity
None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA.

Germ Cell Mutagenicity
No information available for the product.

Tumorigenic Data
No data available

Reproductive Toxicity
No information available for the product.

Specific Target Organ Toxicity - Single Exposure
No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure
No target organs identified.

Aspiration hazard
No information available for the product.

Medical Conditions Aggravated by Exposure
Additional Data
Under normal conditions of use for this product, the likelihood of inhaling or ingesting amounts necessary for adverse effects to occur is very small.

SECTION 12: Ecological information

Ecotoxicity
No information available for the product.

Component Analysis - Aquatic Toxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>EC50/ LC50 (mg/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver</td>
<td>7440-22-4</td>
</tr>
<tr>
<td>Fish:</td>
<td>LC50 96 h Pimephales promelas 0.00155 - 0.00293 mg/L [static ]; LC50 96 h Oncorhynchus mykiss 0.0062 mg/L [flow-through ]; LC50 96 h Lepomis macrochirus 0.064 mg/L [static ]</td>
</tr>
<tr>
<td>Invertebrate:</td>
<td>EC50 48 h Daphnia magna 0.00024 mg/L [Static ] EPA</td>
</tr>
</tbody>
</table>

Fish Toxicity
No information available.

Bioaccumulative Potential
No information available for the product.

Mobility in soil
No information is available for the product.

Biodegradation
Glass is inert in the environment.

SECTION 13: Disposal considerations

Disposal Methods
Waste must be handled in accordance with all applicable regulations. The generation of waste should be avoided or minimized wherever possible.

SECTION 14: Transport information

IATA Information:
Further information: Not regulated as dangerous goods

ICAO Information:
Further information: Not regulated as dangerous goods

IMDG Information:
Further information: Not regulated as dangerous goods

Mexico Information:
Further information: Not regulated as dangerous goods

International Bulk Chemical Code
This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.
SECTION 15: Regulatory information

**Mexico Controlled Chemical Precursors and Essential Chemicals**
None of this product's components are on the list.

**Mexico Pollutant Release and Transfer Register - Reporting Emissions**
None of this product's components are on the list.

**Mexico Workplace Threshold Quantities of Hazardous Chemicals**
None of this product's components are on the list.

**Rotterdam Convention**
No components of this material are listed.

**Montreal Protocol**
No components of this material are listed.

**Stockholm Convention**
No components of this material are listed.

**Component Analysis - Inventory**
Glass, oxide, chemicals (65997-17-3)

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**Zinc oxide (ZnO) (1314-13-2)**

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**Zinc mercaptobenzothiazole (155-04-4)**

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<tbody>
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</table>
**Silver (7440-22-4)**

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<tbody>
<tr>
<td>Yes</td>
<td>DS</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### SECTION 16: Other information

**Preparation Date**
8/23/2018

**Key / Legend**
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC – European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) ; KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOEL - List Of Lists™ - ChemADVISOR’s Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; Ne- Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL – Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; SE - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).
Disclaimer:
Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.
The information within is considered correct but is not exhaustive and will be used for guidance only, which is based on the current knowledge of the substance or mixture and is applicable to the appropriate safety precautions for the product.