

# Material Safety Data Sheet

Material Name : CGW 8111/8112 PhotoGray Extra Crown/Fusible PhotoGray Extra Crown

ID: C-184

## \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

**Chemical Name:** Mixed Alkali Alumina Borosilicate

**Product Use:** Used in the manufacture of glass articles

**Manufacturer Information**

Corning S.A. Optical Division

6 rue du Gatinais

77167 BAGNEAUX SUR LOING

FRANCE, NY 14831

Phone: 33-1-6445-4311

Emergency # CHEMTREC: 1-800-424-9300

Mfg Contact: 33-1-6445-4000 (France)

## \*\*\* Section 2 - Composition / Information on Ingredients \*\*\*

CAS #	Component	Percent
65997-17-3	Glass, oxide, chemicals	100

**Component Related Regulatory Information**

This product may be regulated, have exposure limits or other information identified as the following: Nuisance particulates.

**Component Information/Information on Non-Hazardous Components**

Glass is a solid material produced by combining various raw materials (e.g. oxides, carbonates, etc.), melting these components together, and cooling to a non-crystalline solid having its own unique properties. Processing of this article may produce dusts or fumes which are considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

## \*\*\* Section 3 - Hazards Identification \*\*\*

**Emergency Overview**

This is a non-combustible, non-reactive solid material. It is supplied in the form of ophthalmic lens or segment pressings. Use methods suitable to fight surrounding fire. Exposure to dust may be irritating to eyes, nose, and throat. At very high exposure levels the dust may have an effect on the lungs.

**Hazard Statements**

Dust or powder may be irritating to the eyes, skin, respiratory system and gastrointestinal tract.

**Potential Health Effects: Eyes**

Dusts may cause mechanical irritation. Rubbing may cause abrasion of cornea. Symptoms can include irritation, redness, scratching of the cornea, and tearing.

**Potential Health Effects: Skin**

Dust or powder may irritate the skin. Mechanical rubbing may increase skin irritation. No components in this product are known to be absorbed through the skin.

**Potential Health Effects: Ingestion**

May cause temporary irritation of the throat, stomach, and gastrointestinal tract.

**Potential Health Effects: Inhalation**

Dusts from this product may cause irritation of the nose, throat, and respiratory tract. When inhaled in very large amounts, damage to the lung can occur.

**HMIS Ratings: Health: 1 Fire: 0 Reactivity: 0 Pers. Prot.:** gloves, goggles

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## \*\*\* Section 4 - First Aid Measures \*\*\*

**First Aid: Eyes**

Eye injuries from glass particles should be treated by a physician immediately.

**First Aid: Skin**

Cuts or abrasions should be treated promptly with thorough cleansing of the affected area.

**First Aid: Ingestion**

No need for first aid is anticipated if material is swallowed.

**First Aid: Inhalation**

Move person to non-contaminated air. Call a physician if symptoms persist.

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## First Aid: Notes to Physician

None.

### \*\*\* Section 5 - Fire Fighting Measures \*\*\*

**Flash Point:** Not applicable

**Method Used:** Not applicable

**Upper Flammable Limit (UFL):** Not applicable

**Lower Flammable Limit (LFL):** Not applicable

**Auto Ignition:** Not applicable

**Flammability Classification:** Not applicable

**Rate of Burning:** Not applicable

## General Fire Hazards

This material will not burn.

## Hazardous Combustion Products

Material will begin softening at about 663 ° C, will proceed to a liquid and will form irritating and toxic gaseous metallic oxides at extremely high temperatures.

## Extinguishing Media

Use methods for the surrounding fire.

## Fire Fighting Equipment/Instructions

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

**NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### \*\*\* Section 6 - Accidental Release Measures \*\*\*

## Containment Procedures

Avoid creating dusts.

## Clean-Up Procedures

Collect spill using a vacuum cleaner with a HEPA filter. Place in a closed container.

## Evacuation Procedures

None necessary.

## Special Procedures

Avoid creating dusts during clean-up. Clean up and dispose of waste in accordance with all Federal, State and local regulations.

### \*\*\* Section 7 - Handling and Storage \*\*\*

## Handling Procedures

Avoid inhalation of dusts. Avoid contact with skin and eyes. Wash thoroughly after handling.

## Storage Procedures

Store in a dry area.

### \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

## Exposure Guidelines

### A: General Product Information

The OSHA air contaminants exposure limits (PELs) are those provided in the 1989 update to 29 CFR 1910.1000. These limits were vacated by OSHA and may not be enforceable.

### B: Component Exposure Limits

#### Glass, oxide, chemicals (65997-17-3)

ACGIH: 10 mg/m<sup>3</sup> TWA (inhalable fraction, particulate matter containing no asbestos and <1% crystalline silica); 3 mg/m<sup>3</sup> TWA (respirable fraction, particulate matter containing no asbestos and <1% crystalline silica) (related to Particulates not otherwise specified (PNOS))

OSHA (Final): 15 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable fraction) (related to Particulates not otherwise regulated)

OSHA (Vacated): 15 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable fraction) (related to Particulates not otherwise regulated)

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## Engineering Controls

Whenever particulates or fumes are generated, use appropriate local exhaust ventilation to keep exposures below the regulated limits.

## PERSONAL PROTECTIVE EQUIPMENT

### Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields.

### Personal Protective Equipment: Skin

Wear leather or other appropriate work gloves, if necessary for type of operation. The use of coveralls is recommended.

### Personal Protective Equipment: Respiratory

Not normally needed. If permissible levels are exceeded, use appropriate NIOSH approved dust respirator.

### Personal Protective Equipment: General

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

## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Appearance:</b>	Slightly colored	<b>Odor:</b>	Odorless
<b>Physical State:</b>	Ophthalmic Lens or Segment Pressings	<b>pH:</b>	Not applicable
<b>Vapor Pressure:</b>	Not applicable	<b>Vapor Density:</b>	Not applicable
<b>Boiling Point:</b>	Not applicable	<b>Melting Point:</b>	Not available
<b>Solubility (H2O):</b>	Not applicable	<b>Specific Gravity:</b>	2.41 gm/cm
<b>Freezing Point:</b>	Not applicable	<b>Softening Point:</b>	663°C
<b>Density:</b>	2.41 gm/cm <sup>3</sup>		

## \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

### Chemical Stability

Stable

### Chemical Stability: Conditions to Avoid

None known.

### Incompatibility

None known.

### Hazardous Decomposition

At very high temperatures irritating and toxic gaseous metallic oxides can be formed.

### Hazardous Polymerization

Will not occur.

## \*\*\* Section 11 - Toxicological Information \*\*\*

### Acute Toxicity

#### A: General Product Information

Dusts may cause mechanical irritation to eyes and skin. 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.

#### B: Component Analysis - LD50/LC50

No LD50/LC50's are available for this product's components.

### Carcinogenicity

#### A: General Product Information

No information available for product.

#### B: Component Carcinogenicity

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

### Epidemiology

No information available for product.

### Neurotoxicity

No information available for product.

### Mutagenicity

No information available for product.

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## Teratogenicity

No information available for product.

## Other Toxicological Information

Under normal conditions of use for glass products, the likelihood of inhaling or ingesting amounts necessary for these effects to occur is very small.

### \*\*\* Section 12 - Ecological Information \*\*\*

## Ecotoxicity

### A: General Product Information

No information available for product.

### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

## Environmental Fate

No information available for product.

### \*\*\* Section 13 - Disposal Considerations \*\*\*

## US EPA Waste Number & Descriptions

### A: General Product Information

You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

### B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

## Disposal Instructions

Waste must be handled in accordance with all applicable regulations. Purchaser is advised to review regulations referenced for applicability as determined by purchaser's use of the product. Glass products may be recycled.

### \*\*\* Section 14 - Transportation Information \*\*\*

## US DOT Information

**Shipping Name:** Not Regulated as a Hazardous Material

**UN/NA #:** None **Hazard Class:** None **Packing Group:** None

**Required Label(s):** None

**Additional Info.:** None

## International Transportation Regulations

Not Regulated as a Dangerous Good

### \*\*\* Section 15 - Regulatory Information \*\*\*

## US Federal Regulations

### A: General Product Information

No additional information.

### B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

## State Regulations

### A: General Product Information

Other state regulations may apply. Check individual state requirements.

### B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Glass, oxide, chemicals (related to Nuisance particulates)	65997-17-3	No	No	Yes	No	No	Yes 1

## Other Regulations

### A: General Product Information

No additional information.

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## B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Glass, oxide, chemicals	65997-17-3	Yes	Yes	Yes

## C: Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

### \*\*\* Section 16 - Other Information \*\*\*

#### Other Information

Reasonable care has been taken in the preparation of this information, but Corning makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. Corning makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

**Revision information:** Revision 2.000, 06-MAR-2003:  
Sections 2,8,11,15,16 were revised due to regulatory update.  
Previous issues: Revision 1.0000 (new), 04-JAN-2000

#### Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; CAS = Chemical Abstracts Service; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; CFR = Code of Federal Regulations; CPR = Controlled Products Regulations; DOT = Department of Transportation; DSL = Domestic Substances List; EINECS = European Inventory of Existing Commercial Chemical Substances; EPA = Environmental Protection Agency; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; mg/Kg = milligrams per Kilogram; mg/L = milligrams per Liter; mg/m<sup>3</sup> = milligrams per Cubic Meter; MSHA = Mine Safety and Health Administration; NA = Not Applicable or Not Available; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit; TDG = Transport Dangerous Goods; TSCA = Toxic Substances Control Act; WHMIS = Workplace Hazardous Materials Information System.

This is the end of MSDS # C-184

