**Acid-etched Mirror**

**by Walker Glass Company Ltd.**

**CLASSIFICATION:** 08 83 00

**PRODUCT DESCRIPTION:** This HPD covers Walker's Acid-etched Mirrors in multiple colors and dimensions. Acid-etched Mirrors are suitable for interior applications only. Available colors: Clear, bronze, grey, black, blue, ultra-clear, green, etc. Mirror standard thicknesses: 3mm to 6mm (1/8" to 1/4"). Available sizes: Standard size 96" x 130", subject to float glass availability.

Other applicable CSI Masterformat identifiers: 08 85 00 - Glazing Accessories.

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### Section 1: Summary

#### CONTENT INVENTORY

<table>
<thead>
<tr>
<th>Inventory Reporting Format</th>
<th>Threshold level</th>
<th>Residuals/Impurities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nested Materials Method</td>
<td>100 ppm</td>
<td>Residuals/Impurities</td>
</tr>
<tr>
<td></td>
<td>1,000 ppm</td>
<td>Considered in 2 of 4 Materials</td>
</tr>
<tr>
<td>Basic Method</td>
<td>Per GHS SDS</td>
<td>Explanation(s) provided for Residuals/Impurities?</td>
</tr>
<tr>
<td></td>
<td>Per OSHA MSDS</td>
<td>Yes ☑ No ☐</td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td></td>
</tr>
</tbody>
</table>

**Are All Substances above the Threshold Indicated:**

- **Characterized:** Yes ☑ No ☐
- **Percent Weight and Role Provided:** Yes ☑ No ☐
- **Screened Using Priority Hazard Lists with Results Disclosed:** Yes ☑ No ☐
- **Identified Name and Identifier Provided:** Yes ☑ No ☐

#### CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

**MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY | GREENSCREEN SCORE | HAZARD TYPE**

- **ACID-ETCHED GLASS** [SILICA, AMORPHOUS (SILICON DIOXIDE) LT-1]
- CAN SODIUM OXIDE (SODIUM OXIDE) LT-I
- CAN CALCIUM OXIDE (CALCIUM OXIDE) LT-I
- CEP MAGNESIUM OXIDE (MAGNESIUM OXIDE) LT-I
- ALUMINUM OXIDE (ALUMINUM OXIDE) LT-I
- RES SODIUM SULFATE (SALT CAKE) LT-I
- FERRIC OXIDE (DIIRON TRIOXIDE) BM-2 CAN
- CARBON (COAL) LT-I
- COBALT COMPOUNDS (COBALT COMPOUNDS) LT-I
- RES CAN GEN NICKEL COMPOUNDS (NICKEL COMPOUNDS) LT-I
- CAN RES TOP COAT | BARIUM SULFATE (BARIUM SULFATE) BM-2
- CAN TALC (TALC) BM-2 CAN XYLENES (XYLENES) BM-2 CAN SKI END MUL REP TITANIUM DIOXIDE (TITANIUM DIOXIDE) LT-I CAN END AROMATIC NAPHTHA, TYPE 1 (AROMATIC NAPHTHA, TYPE 1) LT-I CAN GEN MAM MUL END LIMESTONE; CALCIUM CARBONATE (LIMESTONE; CALCIUM CARBONATE) LT-I
- UNK ISOBUTYL ALCOHOL (ISOBUTYL ALCOHOL) BM-2 CAN SKI EYE ETHYLBENZENE (ETHYLBENZENE) BM-2 CAN MAM CAN REP PHY PHENOLIC RESIN SOLIDS (PHENOLIC RESIN SOLIDS) NQS CAN BLACK CARBON BLACK LT-I CAN TALC (TALC) NQS FORMALDEHYDE, MELAMINE POLYMÄR, METHYLATED (FORMALDEHYDE, MELAMINE POLYMÄR, METHYLATED) LT-I UNK PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE (PMA) (PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE (PMA)) LT-1 CAN N-BUTANOL (N-BUTANOL) BM-1 MAM SKI EYE METHYL ETHYL KETOXIME (METHYL ETHYL KETOXIME) LT-I CAN MAM CAN EYE SKI FERRIC OXIDE (DIIRON TRIOXIDE) BM-2 CAN DOLomite (DOLomite) NQS ZINC OXIDE (ZINC OXIDE) BM-1 AQU RES MUL BASE COAT | BARIUM SULFATE (BARIUM SULFATE) BM-2 CAN TALC (TALC) BM-1 CAN XYLENES (XYLENES) BM-2 CAN MAM SKI END MUL REP AROMATIC NAPHTHA, TYPE 1 (AROMATIC NAPHTHA, TYPE 1) LT-I CAN GEN MAM MUL END FERRIC OXIDE (DIIRON TRIOXIDE) BM-2 CAN LIMESTONE; CALCIUM CARBONATE (LIMESTONE; CALCIUM CARBONATE) LT-I UNK LEAD OXIDE SULFATE (PB4O3(SO4)) (LEAD OXIDE SULFATE (PB4O3(SO4))) LT-I MAM AQU DEL REP CAN PBT MUL GEN ISOBUTYL ALCOHOL (ISOBUTYL ALCOHOL) BM-2 SKI EYE 1,2,4-TRIMETHYLBENZENE (1,2,4-TRIMETHYLBENZENE) BM-2 CAN MAM EYE SKI AQU MUL ETHYLBENZENE (ETHYLBENZENE) BM-2 CAN MAM CAN REP |

Number of Greenscreen BM-4/BM3 contents........ 0 Contents highest concern GreenScreen Benchmark or List translator Score................. BM-1 Nanomaterial............. No

#### INVENTORY AND SCREENING NOTES:

This HPD has been prepared using the Nested Content Inventory. Float glass is a material with Special Conditions as per the HPDC and guidelines for reporting Special Conditions materials are still under development by HPDC. Walker Glass will update the HPD accordingly once these guidelines get published. Content Inventory ranges are explained by the variability in thickness of Acid-etched Mirrors from Walker. Substances present in Walker's Acid-etched Mirrors, as well as known residuals and impurities, have been disclosed at 1,000 ppm. More details about how residuals and impurities were considered available in the appropriate section.
| VOLATILE ORGANIC COMPOUND (VOC) CONTENT | CERTIFICATIONS AND COMPLIANCE
|-----------------------------------------|------------------------------------------
| VOC Content data is not applicable for this product category. | See Section 3 for additional listings.
| | VOC emissions: CDPH Standard Method V1.1 - N/A

| CONSISTENCY WITH OTHER PROGRAMS
|------------------------------------------|
| Pre-checked for LEED v4 Material Ingredients, Option 1

<table>
<thead>
<tr>
<th>Third Party Verified?</th>
<th>PREPARER: Self-Prepared</th>
<th>SCREENING DATE: 2017-08-10</th>
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<tbody>
<tr>
<td>Yes</td>
<td>VERIFIER:</td>
<td>PUBLISHED DATE: 2017-09-13</td>
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<tr>
<td>No</td>
<td>VERIFICATION #:</td>
<td>EXPIRY DATE: 2020-08-10</td>
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</tbody>
</table>

Acid-etched Mirror
www.hpd-collaborative.org

HPD v2.1 created via HPDC Builder Page 2 of 24
This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold.
- Nested Material Inventory method with individual Material-level thresholds.

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

### Acid-Etched Glass

**%:** 97.4900 - 98.6400  
**HPD URL:** N/A

**Product Threshold:** 1000 ppm  
**Residuals and Impurities Considered:** Yes

**Residuals and Impurities Notes:** Walker confirms that there are no residuals or impurities remaining on the acid-etched glass surface following the etching process. Walker has three different suppliers of soda-lime glass and therefore there are several levels of disclosure of residuals and impurities. Supplier #1 data: All glasses sold by this supplier are regularly analyzed with an elemental detection limit of 10 ppm or lower. Pb, Cr, As, Sb, V and Cd may rarely be present in float glass as trace level contaminants and are never present at greater than 20 ppm. Therefore they were not included in the HPD. Co, Se and Ni may be added to impart colour to some tinted glasses. Co is never present at greater than 300 ppm, Se is never present at more than 50 ppm (not disclosed), Ni is typically not present at greater than 200 ppm but may be 800 ppm in some specific dark grey products. - No statement regarding impurities for Supplier #2.

**Other Material Notes:** The main material used for acid-etched mirrors is soda-lime glass. The composition disclosed below corresponds to an average and generic composition for soda-lime glass. Walker’s Acid-etched Mirrors is available in several colors: Clear, bronze, grey, black, blue, ultra-clear, green, etc. Not all suppliers provide tinted glass. The following statements represent the information received from tinted glass suppliers. Supplier #1 statement: Co, Se and Ni may be added to impart colour to some tinted glasses. Co is never present at greater than 300 ppm, Se is never present at more than 50 ppm (not disclosed), Ni is typically not present at greater than 200 ppm but may be 800 ppm in some specific dark grey products. Supplier #2 statement: Tinted glasses are very similar in composition to clear glass with adjustments to trace elements for coloring purposes and sometimes accompanied by minor changes to the other components where necessary for proper melting.

### Silica, Amorphous (Silicon Dioxide)

**ID:** 7631-86-9

**%:** 69.0000 - 74.0000  
**GS:** LT-P1  
**RC:** None  
**NANO:** No  
**Role:** Network former

**Hazards:**  
**Agency(ies) with Warnings:** Japan - GHS  
Carcinogenicity - Category 1A

**Substance Notes:** Main ingredient. See Material Notes.

### Sodium Oxide (Sodium Oxide)

**ID:** 1313-59-3

**%:** 12.0000 - 16.0000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**Role:** Fluxing agent

**Hazards:**  
**Agency(ies) with Warnings:** None Found  
No warnings found on HPD Priority lists

**Substance Notes:** See Material Notes.
<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<th>% Range</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
<th>HAZARDS</th>
<th>AGENCY(IES) WITH WARNINGS:</th>
<th>None Found</th>
<th>Substance Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CALCIUM OXIDE</strong></td>
<td>1305-78-8</td>
<td>5.0000 - 12.0000</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Network modifier</td>
<td>No warnings found on HPD Priority lists</td>
<td>None Found</td>
<td>See Material Notes.</td>
<td></td>
</tr>
<tr>
<td><strong>MAGNESIUM OXIDE</strong></td>
<td>1309-48-4</td>
<td>0.0000 - 6.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Network modifier</td>
<td>No warnings found on HPD Priority lists</td>
<td>None Found</td>
<td>See Material Notes.</td>
<td></td>
</tr>
<tr>
<td><strong>ALUMINUM OXIDE</strong></td>
<td>1344-28-1</td>
<td>0.0000 - 3.0000</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Durability/viscosity/workability enhancer</td>
<td>Asthmagen (ARs) - sensitizer-induced - inhalable forms only</td>
<td>None Found</td>
<td>See Material Notes.</td>
<td></td>
</tr>
<tr>
<td><strong>SODIUM SULFATE (SALT CAKE)</strong></td>
<td>7757-82-6</td>
<td>0.0000 - 1.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Fining agent</td>
<td>No warnings found on HPD Priority lists</td>
<td>None Found</td>
<td>Trace element for supplier #1. Present in some glasses.</td>
<td></td>
</tr>
<tr>
<td><strong>FERRIC OXIDE (DIIRON TRIOXIDE)</strong></td>
<td>1309-37-1</td>
<td>0.0000 - 1.0000</td>
<td>BM-2</td>
<td>None</td>
<td>No</td>
<td>Coloring agent</td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
<td>None Found</td>
<td>Trace element for supplier #1. Present in some glasses.</td>
<td></td>
</tr>
</tbody>
</table>
### Carbon (Coal)

**ID:** 7440-44-0  
**%:** 0.0000 - 1.0000  
**GB:** LT-UNK  
**RC:** None  
**NANO:** No  
**ROLE:** Reducing agent

**HAZARDS:**  
None Found  
**AGENCY(IES) WITH WARNINGS:**  
No warnings found on HPD Priority lists

**SUBSTANCE NOTES:** Trace element for supplier #1. Present in some glasses.

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### Cobalt Compounds (Cobalt Compounds)

**ID:** Not registered  
**%:** 0.0000 - 0.0300  
**GB:** LT-1  
**RC:** None  
**NANO:** No  
**ROLE:** Coloring agent

**HAZARDS:**  
**RESPIRATORY**  
AOEC - Asthmagens  
Asthmagen (G) - generally accepted  
**CANCER**  
MAK  
Carcinogen Group 2 - Considered to be carcinogenic for man  
**RESPIRATORY**  
MAK  
Sensitizing Substance Sah - Danger of airway & skin sensitization  
**GENE MUTATION**  
MAK  
Germ Cell Mutagen 3a

**SUBSTANCE NOTES:** Present in some tinted glasses for supplier #2.

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### Nickel Compounds (Nickel Compounds)

**ID:** Not registered  
**%:** 0.0000 - 0.0800  
**GB:** LT-1  
**RC:** None  
**NANO:** No  
**ROLE:** Coloring agent

**HAZARDS:**  
**CANCER**  
IARC  
Group 1 - Agent is Carcinogenic to humans  
**CANCER**  
CA EPA - Prop 65  
Carcinogen  
**CANCER**  
US CDC - Occupational Carcinogens  
Occupational Carcinogen  
**RESPIRATORY**  
AOEC - Asthmagens  
Asthmagen (ARs) - sensitizer-induced - inhalable forms only  
**CANCER**  
MAK  
Carcinogen Group 1 - Substances that cause cancer in man  
**RESPIRATORY**  
MAK  
Sensitizing Substance Sah - Danger of airway & skin sensitization

**SUBSTANCE NOTES:** Up to 800 ppm in dark grey glasses for supplier #2.

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### Top Coat

**%:** 0.6800 - 1.2500  
**HPD URL:** N/A  
**PRODUCT THRESHOLD:** 1000 ppm  
**RESIDUALS AND IMPURITIES CONSIDERED:** No
RESIDUALS AND IMPURITIES NOTES: Top coat supplied by two suppliers. Chemical composition based on SDS and composition disclosure. Residuals and impurities were in both cases not identified.

OTHER MATERIAL NOTES: The composition is presented with ranges since the formulation varies from one supplier to another. Substances with ranges starting with 0% are not present in both formulations. Substances with ranges starting with a number other than 0% is present in both formulations.

### BARIUM SULFATE (BARIUM SULFATE)

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.0000 - 20.0000</td>
<td>BM-2</td>
<td>None</td>
<td>No</td>
<td>Filler</td>
</tr>
</tbody>
</table>

HAZARDS: AGENCY(IES) WITH WARNINGS:

- **CANCER**
  - MAK
  - Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES: See Material Notes.

### TALC (TALC)

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.0000 - 20.0000</td>
<td>BM-1</td>
<td>None</td>
<td>No</td>
<td>Filler</td>
</tr>
</tbody>
</table>

HAZARDS: AGENCY(IES) WITH WARNINGS:

- **CANCER**
  - MAK
  - Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: See Material Notes.

### XYLENES (XYLENES)

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
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<td>5.0000 - 19.2000</td>
<td>BM-1</td>
<td>None</td>
<td>No</td>
<td>Solvent</td>
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</table>

HAZARDS: AGENCY(IES) WITH WARNINGS:

- **MAMMALIAN**
  - EU - R-phrases
  - R20 - Harmful by Inhalation (gas or vapor or dust/mist)

- **MAMMALIAN**
  - EU - R-phrases
  - R21 - Harmful in Contact with Skin

- **SKIN IRRITATION**
  - EU - R-phrases
  - R38 - Irritating to skin

- **SKIN IRRITATION**
  - EU - GHS (H-Statements)
  - H315 - Causes skin irritation

- **ENDOCRINE**
  - TEDX - Potential Endocrine Disruptors
  - Potential Endocrine Disruptor

- **MULTIPLE**
  - German FEA - Substances Hazardous to Waters
  - Class 2 - Hazard to Waters

- **REPRODUCTIVE**
  - Japan - GHS
  - Toxic to reproduction - Category 1B

SUBSTANCE NOTES: See Material Notes.
### AROMATIC NAPHTHA, TYPE 1 (AROMATIC NAPHTHA, TYPE 1)

<table>
<thead>
<tr>
<th>%: 0.1000 - 3.0000</th>
<th>GB: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: solvent</th>
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</table>

**HAZARDS:**

**CANCER**  
EU - R-phrases  
R45 - May cause cancer

**GENE MUTATION**  
EU - R-phrases  
R46 - May cause heritable genetic damage

**MAMMALIAN**  
EU - GHS (H-Statements)  
H304 - May be fatal if swallowed and enters airways

**GENE MUTATION**  
EU - GHS (H-Statements)  
H340 - May cause genetic defects

**CANCER**  
EU - REACH Annex XVII CMRs  
Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man

**GENE MUTATION**  
EU - REACH Annex XVII CMRs  
Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic to man

**MULTIPLE**  
ChemSec - SIN List  
CMR - Carcinogen, Mutagen &/or Reproductive Toxicant

**ENDOCRINE**  
TEDX - Potential Endocrine Disruptors  
Potential Endocrine Disruptor

**MULTIPLE**  
German FEA - Substances Hazardous to Waters  
Class 3 - Severe Hazard to Waters

**CANCER**  
EU - Annex VI CMRs  
Carcinogen Category 1B - Presumed Carcinogen based on animal evidence

**GENE MUTATION**  
EU - Annex VI CMRs  
Mutagen - Category 1B

**GENE MUTATION**  
Australia - GHS  
H340 - May cause genetic defects

**CANCER**  
Australia - GHS  
H350 - May cause cancer

**SUBSTANCE NOTES:** Light aromatic. See Material Notes.

### LIMESTONE; CALCIUM CARBONATE (LIMESTONE; CALCIUM CARBONATE)

<table>
<thead>
<tr>
<th>%: 1.0000 - 5.0000</th>
<th>GB: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Pigment</th>
</tr>
</thead>
</table>

**HAZARDS:**

**CANCER**  
US CDC - Occupational Carcinogens  
Occupational Carcinogen

**CANCER**  
CA EPA - Prop 65  
Carcinogen - specific to chemical form or exposure route

**CANCER**  
IARC  
Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources

**ENDOCRINE**  
TEDX - Potential Endocrine Disruptors  
Potential Endocrine Disruptor

**CANCER**  
MAK  
Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

**SUBSTANCE NOTES:** See Material Notes.
ISOBUTYL ALCOHOL (ISOBUTYL ALCOHOL)  
ID: 78-83-1

%: 0.0000 - 8.3000  
GS: BM-2  
RC: None  
NANO: No  
ROLE: Additive

HAZARDS:  
SKIN IRRITATION  
EU - R-phrases  
R38 - Irritating to skin

EYE IRRITATION  
EU - R-phrases  
R41 - Risk of serious damage to eyes

SKIN IRRITATION  
EU - GHS (H-Statements)  
H315 - Causes skin irritation

EYE IRRITATION  
EU - GHS (H-Statements)  
H318 - Causes serious eye damage

SUBSTANCE NOTES: See Material Notes.

ETHYLBENZENE (ETHYLBENZENE)  
ID: 100-41-4

%: 0.0000 - 2.2000  
GS: BM-2  
RC: None  
NANO: No  
ROLE: solvent

HAZARDS:  
MAMMALIAN  
EU - R-phrases  
R20 - Harmful by Inhalation (gas or vapor or dust/mist)

CANCER  
IARC  
Group 2b - Possibly carcinogenic to humans

CANCER  
CA EPA - Prop 65  
Carcinogen

MAMMALIAN  
EU - GHS (H-Statements)  
H304 - May be fatal if swallowed and enters airways

CANCER  
MAK  
Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

REPRODUCTIVE  
Japan - GHS  
Toxic to reproduction - Category 1B

PHYSICAL HAZARD (REACTIVE)  
EU - GHS (H-Statements)  
H225 - Highly flammable liquid and vapour

SUBSTANCE NOTES: See Material Notes.

PHENOLIC RESIN SOLIDS (PHENOLIC RESIN SOLIDS)  
ID: Not registered

%: 0.0000 - 5.0000  
GS: NoGS  
RC: None  
NANO: No  
ROLE: Additive

HAZARDS:  
None Found

SUBSTANCE NOTES: See Material Notes.
### QUARTZ (QUARTZ)

**ID:** 14808-60-7

**%:** 0.0000 - 1.0000  
**GS:** LT-1  
**RC:** None  
**NANO:** No  
**ROLE:** Filler

**HAZARDS:**

<table>
<thead>
<tr>
<th>CANCER</th>
<th>AGENCY(IES) WITH WARNINGS:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
</tr>
<tr>
<td></td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
</tr>
<tr>
<td></td>
<td>IARC</td>
<td>Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources</td>
</tr>
<tr>
<td></td>
<td>US NIH - Report on Carcinogens</td>
<td>Known to be Human Carcinogen (respirable size - occupational setting)</td>
</tr>
<tr>
<td></td>
<td>MAK</td>
<td>Carcinogen Group 1 - Substances that cause cancer in man</td>
</tr>
<tr>
<td></td>
<td>New Zealand - GHS</td>
<td>6.7A - Known or presumed human carcinogens</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** See Material Notes.

### CARBON BLACK (CARBON BLACK)

**ID:** 1333-86-4

**%:** 0.0000 - 1.0000  
**GS:** LT-1  
**RC:** None  
**NANO:** No  
**ROLE:** Pigment

**HAZARDS:**

<table>
<thead>
<tr>
<th>CANCER</th>
<th>AGENCY(IES) WITH WARNINGS:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
</tr>
<tr>
<td></td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
</tr>
<tr>
<td></td>
<td>IARC</td>
<td>Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources</td>
</tr>
<tr>
<td></td>
<td>MAK</td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** See Material Notes.

### TERLON (TERLON)

**ID:** 63148-69-6

**%:** 0.0000 - 22.5000  
**GS:** NoGS  
**RC:** None  
**NANO:** No  
**ROLE:** Binder

**HAZARDS:**

| None Found | No warnings found on HPD Priority lists |

**SUBSTANCE NOTES:** Approximation for the generic "Alkyd resin". See Material Notes.
<table>
<thead>
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<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
<th>HAZARDS</th>
<th>AGENCY(IES) WITH WARNINGS</th>
<th>None Found</th>
<th>No warnings found on HPD Priority lists</th>
<th>SUBSTANCE NOTES</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde, Melamine Polymer, Methylated</td>
<td>68002-20-0</td>
<td>0.0000 - 6.7000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Crosslinking agent</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td>See Material Notes</td>
<td></td>
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<tr>
<td>Propylene Glycol Monomethyl Ether Acetate (PMA)</td>
<td>108-65-6</td>
<td>0.0000 - 3.5000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
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<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td>See Material Notes</td>
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<tr>
<td>N-Butanol</td>
<td>71-36-3</td>
<td>0.0000 - 2.0000</td>
<td>BM-2</td>
<td>None</td>
<td>No</td>
<td>Thinner</td>
<td>Mammalian</td>
<td>EU - R-phrases</td>
<td>R22 - Harmful if Swallowed</td>
<td>See Material Notes</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Irritation</td>
<td>EU - R-phrases</td>
<td>R38 - Irritating to skin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Eye Irritation</td>
<td>EU - R-phrases</td>
<td>R41 - Risk of serious damage to eyes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Irritation</td>
<td>EU - GHS (H-Statements)</td>
<td>H315 - Causes skin irritation</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Eye Irritation</td>
<td>EU - GHS (H-Statements)</td>
<td>H318 - Causes serious eye damage</td>
<td></td>
<td></td>
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<tr>
<td>Methy1 Ethyl Ketoxime (Methyl Ethyl Ketoxime)</td>
<td>96-29-7</td>
<td>0.0000 - 0.1000</td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Anti-skinning agent</td>
<td>Mammalian</td>
<td>EU - R-phrases</td>
<td>R21 - Harmful in Contact with Skin</td>
<td></td>
<td></td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Cancer</td>
<td>EU - R-phrases</td>
<td>R40 - Limited Evidence of Carcinogenic Effects</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Eye Irritation</td>
<td>EU - R-phrases</td>
<td>R41 - Risk of serious damage to eyes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Sensitize</td>
<td>EU - R-phrases</td>
<td>R43 - May cause sensitization by skin contact</td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Sensitize</td>
<td>EU - GHS (H-Statements)</td>
<td>H317 - May cause an allergic skin reaction</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Substance</td>
<td>ID</td>
<td>%</td>
<td>GS</td>
<td>RC</td>
<td>NANO</td>
<td>Role</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>---------------------------</td>
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<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td><strong>FERRIC OXIDE (DIIRON TRIOXIDE)</strong></td>
<td>1309-37-1</td>
<td>0.0000 - 0.5000</td>
<td>BM-2</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DOLOMITE (DOLOMITE)</strong></td>
<td>16389-88-1</td>
<td>0.0000 - 11.2000</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Extender</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ZINC OXIDE (ZINC OXIDE)</strong></td>
<td>1314-13-2</td>
<td>0.0000 - 1.5000</td>
<td>BM-1</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

**EYE IRRITATION**
- H318 - Causes serious eye damage

**CANCER**
- H351 - Suspected of causing cancer
- MAK - Carcinogen Group 2 - Considered to be carcinogenic for man

**SKIN SENSITIZE**
- MAK - Sensitizing Substance Sh - Danger of skin sensitization

**FERRIC OXIDE (DIIRON TRIOXIDE)**

SUBSTANCE NOTES: See Material Notes.

**DOLOMITE (DOLOMITE)**

SUBSTANCE NOTES: See Material Notes.

**ZINC OXIDE (ZINC OXIDE)**

SUBSTANCE NOTES: See Material Notes.
### Base Coat

<table>
<thead>
<tr>
<th>PRODUCT THRESHOLD:</th>
<th>1000 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESIDUALS AND IMPURITIES CONSIDERED:</td>
<td>No</td>
</tr>
</tbody>
</table>

**Residuals and Impurities Notes:** Base coat supplied by two suppliers. Chemical composition based on SDS and composition disclosure. Residuals and impurities were in both cases not identified.

**Other Material Notes:** The composition is presented with ranges since the formulation varies from one supplier to another. Substances with ranges starting with 0% are not present in both formulations. Substances with ranges starting with a number other than 0% is present in both formulations.

#### BARIUM SULFATE (BARIUM SULFATE)

<table>
<thead>
<tr>
<th>%:</th>
<th>10.0000 - 20.0000</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS</td>
<td>BM-2</td>
</tr>
<tr>
<td>RC</td>
<td>None</td>
</tr>
<tr>
<td>NANO</td>
<td>No</td>
</tr>
<tr>
<td>ROLE</td>
<td>Filler</td>
</tr>
</tbody>
</table>

**Hazards:**

- **Cancer**
  - **Agency(ies) with warnings:** MAK
  - Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

**Substance Notes:** See Material Notes.

#### TALC (TALC)

<table>
<thead>
<tr>
<th>%:</th>
<th>5.0000 - 14.0000</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS</td>
<td>BM-1</td>
</tr>
<tr>
<td>RC</td>
<td>None</td>
</tr>
<tr>
<td>NANO</td>
<td>No</td>
</tr>
<tr>
<td>ROLE</td>
<td>Filler</td>
</tr>
</tbody>
</table>

**Hazards:**

- **Cancer**
  - **Agency(ies) with warnings:** MAK
  - Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

**Substance Notes:** See Material Notes.

#### XYLENES (XYLENES)

<table>
<thead>
<tr>
<th>%:</th>
<th>5.0000 - 18.0000</th>
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</thead>
<tbody>
<tr>
<td>GS</td>
<td>BM-1</td>
</tr>
<tr>
<td>RC</td>
<td>None</td>
</tr>
<tr>
<td>NANO</td>
<td>No</td>
</tr>
<tr>
<td>ROLE</td>
<td>Solvent</td>
</tr>
</tbody>
</table>

**Hazards:**

- **Mammalian**
  - **EU - R-phrases:**
    - R20 - Harmful by Inhalation (gas or vapor or dust/mist)
  - **EU - GHS (H-Statements):**
    - R21 - Harmful in Contact with Skin
- **Skin Irritation**
  - **EU - R-phrases:**
    - R38 - Irritating to skin
  - **EU - GHS (H-Statements):**
    - H315 - Causes skin irritation
- **Endocrine**
  - **TEDX - Potential Endocrine Disruptors:** Potential Endocrine Disruptor
  - **German FEA - Substances Hazardous to Waters:** Class 2 - Hazard to Waters
  - **Japan - GHS:** Toxic to reproduction - Category 1B

**Substance Notes:** See Material Notes.
### Aromatic Naphtha, Type 1 (AROMATIC NAPHTHA, TYPE 1)

**ID:** 64742-95-6  
**%:** 5.0000 - 8.6000  
**GS:** LT-1  
**RC:** None  
**NANO:** No  
**ROLE:** Solvent  

**HAZARDS:**

<table>
<thead>
<tr>
<th>Agency(ies) with Warning(s)</th>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>R45</td>
<td>May cause cancer</td>
</tr>
<tr>
<td>GENE MUTATION</td>
<td>R46</td>
<td>May cause heritable genetic damage</td>
</tr>
<tr>
<td>MAMMALIAN</td>
<td>H304</td>
<td>May be fatal if swallowed and enters airways</td>
</tr>
<tr>
<td>GENE MUTATION</td>
<td>H340</td>
<td>May cause genetic defects</td>
</tr>
<tr>
<td>CANCER</td>
<td>H350</td>
<td>May cause cancer</td>
</tr>
<tr>
<td>CANCER</td>
<td></td>
<td>Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man</td>
</tr>
<tr>
<td>GENE MUTATION</td>
<td></td>
<td>Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic to man</td>
</tr>
<tr>
<td>MULTIPLE</td>
<td></td>
<td>Class 3 - Severe Hazard to Waters</td>
</tr>
<tr>
<td>CANCER</td>
<td></td>
<td>Carcinogen Category 1B - Presumed Carcinogen based on animal evidence</td>
</tr>
<tr>
<td>GENE MUTATION</td>
<td></td>
<td>Mutagen - Category 1B</td>
</tr>
<tr>
<td>GENE MUTATION</td>
<td></td>
<td>H340 - May cause genetic defects</td>
</tr>
<tr>
<td>CANCER</td>
<td></td>
<td>H350 - May cause cancer</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** See Material Notes.

### Ferric Oxide (Diiron Trioxide)

**ID:** 1309-37-1  
**%:** 2.4000 - 10.0000  
**GS:** BM-2  
**RC:** None  
**NANO:** No  
**ROLE:** Pigment  

**HAZARDS:**

<table>
<thead>
<tr>
<th>Agency(ies) with Warning(s)</th>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAK</td>
<td></td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** See Material Notes.

### Limestone; Calcium Carbonate (LIMESTONE; CALCIUM CARBONATE)

**ID:** 1317-65-3  
**%:** 0.0000 - 50.0000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**ROLE:** Filler  

**HAZARDS:**

None Found  
No warnings found on HPD Priority lists
## Lead Oxide Sulfate (Pb4O3(SO4)) (Lead Oxide Sulfate (Pb4O3(SO4)))

**ID:** 12202-17-4

<table>
<thead>
<tr>
<th>%: 0.0000 - 5.0000</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Pigment</th>
</tr>
</thead>
</table>

### Hazards

#### Agency(ies) with Warnings:

**MAMMALIAN**
- EU - R-phrases
  - R20 - Harmful by Inhalation (gas or vapor or dust/mist)
- EU - R-phrases
  - R22 - Harmful if Swallowed

**ACUTE AQUATIC**
- EU - R-phrases
  - R50 - Very Toxic to Aquatic Organisms

**DEVELOPMENTAL**
- EU - R-phrases
  - R61 - May cause harm to the unborn child

**REPRODUCTIVE**
- EU - R-phrases
  - R62 - Possible risk of impaired fertility

**DEVELOPMENTAL**
- G&L - Neurotoxic Chemicals
  - Developmental Neurotoxicant

**CANCER**
- US EPA - IRIS Carcinogens

**CANCER**
- IARC
  - Group 2a - Agent is probably Carcinogenic to humans

**CANCER**
- CA EPA - Prop 65
  - Carcinogen

**PBT**
- US EPA - Toxics Release Inventory PBTs
  - PBT

**REPRODUCTIVE**
- EU - SVHC Authorisation List
  - Toxic to reproduction - Prioritized for listing

**PBT**
- OR DEQ - Priority Persistent Pollutants
  - Priority Persistent Pollutant - Tier 1

**ACUTE AQUATIC**
- EU - GHS (H-Statements)
  - H400 - Very toxic to aquatic life

**CHRON AQUATIC**
- EU - GHS (H-Statements)
  - H410 - Very toxic to aquatic life with long lasting effects

**DEVELOPMENTAL**
- EU - GHS (H-Statements)
  - H360Df - May damage the unborn child. Suspected of damaging fertility

**REPRODUCTIVE**
- EU - REACH Annex XVII CMRs
  - Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans

**MULTIPLE**
- ChemSec - SiN List
  - CMR - Carcinogen, Mutagen &/or Reproductive Toxicant

**MULTIPLE**
- German FEA - Substances Hazardous to Waters
  - Class 3 - Severe Hazard to Waters

**CANCER**
- MAK
  - Carcinogen Group 2 - Considered to be carcinogenic for man

**REPRODUCTIVE**
- New Zealand - GHS
  - 6.8A - Known or presumed human reproductive or developmental toxicants

**CANCER**
- Japan - GHS
  - Carcinogenicity - Category 1B

**REPRODUCTIVE**
- Japan - GHS
  - Toxic to reproduction - Category 1A

**GENE MUTATION**
- MAK
  - Germ Cell Mutagen 3a

**REPRODUCTIVE**
- EU - Annex VI CMRs
  - Reproductive Toxicity - Category 1A

**DEVELOPMENTAL**
- Australia - GHS
  - H360Df - May damage the unborn child. Suspected of damaging fertility
### ISOBUTYL ALCOHOL (ISOBUTYL ALCOHOL)

<table>
<thead>
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<th>%: 0.0000 - 4.8000</th>
<th>GS: BM-2</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Additive</th>
</tr>
</thead>
</table>

**HAZARDS:**

| Skin Irritation | EU - R-phrases | R38 - Irritating to skin |
| EYE IRRITATION  | EU - R-phrases | R41 - Risk of serious damage to eyes |
| SKIN IRRITATION | EU - GHS (H-Statements) | H315 - Causes skin irritation |
| EYE IRRITATION  | EU - GHS (H-Statements) | H318 - Causes serious eye damage |

**SUBSTANCE NOTES:** See Material Notes.

### 1,2,4-TRIMETHYLBENZENE (1,2,4-TRIMETHYLBENZENE)

<table>
<thead>
<tr>
<th>%: 0.0000 - 3.8000</th>
<th>GS: BM-2</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Thinner</th>
</tr>
</thead>
</table>

**HAZARDS:**

| Mammalian | EU - R-phrases | R20 - Harmful by Inhalation (gas or vapor or dust/mist) |
| EYE IRRITATION | EU - R-phrases | R36 - Irritating to eyes |
| Skin Irritation | EU - R-phrases | R38 - Irritating to skin |
| ACUTE AQUATIC | EU - R-phrases | R51 - Toxic to Aquatic Organisms |
| CHRON AQUATIC | EU - GHS (H-Statements) | H411 - Toxic to aquatic life with long lasting effects |
| SKIN IRRITATION | EU - GHS (H-Statements) | H315 - Causes skin irritation |
| EYE IRRITATION | EU - GHS (H-Statements) | H319 - Causes serious eye irritation |
| MULTIPLE | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters |

**SUBSTANCE NOTES:** See Material Notes.

### ETHYLBENZENE (ETHYLBENZENE)

<table>
<thead>
<tr>
<th>%: 0.0000 - 2.1000</th>
<th>GS: BM-2</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Solvent</th>
</tr>
</thead>
</table>

**HAZARDS:**

| Mammalian | EU - R-phrases | R20 - Harmful by Inhalation (gas or vapor or dust/mist) |
| Cancer    | IARC       | Group 2b - Possibly carcinogenic to humans |
| Cancer    | CA EPA - Prop 65 | Carcinogen |
| Mammalian | EU - GHS (H-Statements) | H304 - May be fatal if swallowed and enters airways |
CANCER

MAK

Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

REPRODUCTIVE

Japan - GHS

Toxic to reproduction - Category 1B

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H225 - Highly flammable liquid and vapour

SUBSTANCE NOTES: See Material Notes.

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**LEAD CYANAMIDATE (LEAD CYANAMIDATE)**

<table>
<thead>
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<th>%</th>
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<tbody>
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<td></td>
<td>RC: None</td>
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<tr>
<td></td>
<td>NANO: No</td>
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<tr>
<td></td>
<td>ROLE: Pigment</td>
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HAZARDS:

<table>
<thead>
<tr>
<th>AGENCY(IES) WITH WARNINGS:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MAMMALIAN</td>
<td>EU - R-phrases</td>
</tr>
<tr>
<td></td>
<td>R20 - Harmful by Inhalation (gas or vapor or dust/mist)</td>
</tr>
<tr>
<td>MAMMALIAN</td>
<td>EU - R-phrases</td>
</tr>
<tr>
<td></td>
<td>R22 - Harmful if Swallowed</td>
</tr>
<tr>
<td>ACUTE AQUATIC</td>
<td>EU - R-phrases</td>
</tr>
<tr>
<td></td>
<td>R50 - Very Toxic to Aquatic Organisms</td>
</tr>
<tr>
<td>DEVELOPMENTAL</td>
<td>EU - R-phrases</td>
</tr>
<tr>
<td></td>
<td>R61 - May cause harm to the unborn child</td>
</tr>
<tr>
<td>REPRODUCTIVE</td>
<td>EU - R-phrases</td>
</tr>
<tr>
<td></td>
<td>R62 - Possible risk of impaired fertility</td>
</tr>
<tr>
<td>DEVELOPMENTAL</td>
<td>G&amp;L - Neurotoxic Chemicals</td>
</tr>
<tr>
<td></td>
<td>Developmental Neurotoxicant</td>
</tr>
<tr>
<td>CANCER</td>
<td>US EPA - IRIS Carcinogens</td>
</tr>
<tr>
<td></td>
<td>(1986) Group B2 - Probable human Carcinogen</td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
</tr>
<tr>
<td></td>
<td>Group 2a - Agent is probably Carcinogenic to humans</td>
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<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
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<tr>
<td></td>
<td>Carcinogen</td>
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<tr>
<td>PBT</td>
<td>US EPA - Toxics Release Inventory PBTs</td>
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<td></td>
<td>PBT</td>
</tr>
<tr>
<td>REPRODUCTIVE</td>
<td>EU - SVHC Authorisation List</td>
</tr>
<tr>
<td></td>
<td>Toxic to reproduction - Candidate list</td>
</tr>
<tr>
<td>PBT</td>
<td>OR DEQ - Priority Persistent Pollutants</td>
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<tr>
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<td>Priority Persistent Pollutant - Tier 1</td>
</tr>
<tr>
<td>ACUTE AQUATIC</td>
<td>EU - GHS (H-Statements)</td>
</tr>
<tr>
<td></td>
<td>H400 - Very toxic to aquatic life</td>
</tr>
<tr>
<td>CHRON AQUATIC</td>
<td>EU - GHS (H-Statements)</td>
</tr>
<tr>
<td></td>
<td>H410 - Very toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>DEVELOPMENTAL</td>
<td>EU - GHS (H-Statements)</td>
</tr>
<tr>
<td></td>
<td>H360Df - May damage the unborn child. Suspected of damaging fertility</td>
</tr>
<tr>
<td>REPRODUCTIVE</td>
<td>EU - REACH Annex XVII CMRs</td>
</tr>
<tr>
<td></td>
<td>Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans</td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>ChemSec - SIN List</td>
</tr>
<tr>
<td></td>
<td>CMR - Carcinogen, Mutagen &amp;/or Reproductive Toxicant</td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
</tr>
<tr>
<td></td>
<td>Class 3 - Severe Hazard to Waters</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
</tr>
<tr>
<td></td>
<td>Carcinogen Group 2 - Considered to be carcinogenic for man</td>
</tr>
<tr>
<td>REPRODUCTIVE</td>
<td>Japan - GHS</td>
</tr>
<tr>
<td></td>
<td>Toxic to reproduction - Category 1A</td>
</tr>
<tr>
<td>GENE MUTATION</td>
<td>MAK</td>
</tr>
<tr>
<td></td>
<td>Germ Cell Mutagen 3a</td>
</tr>
<tr>
<td>REPRODUCTIVE</td>
<td>EU - Annex VI CMRs</td>
</tr>
<tr>
<td></td>
<td>Reproductive Toxicity - Category 1A</td>
</tr>
</tbody>
</table>
QUARTZ (QUARTZ)  

**%:** 0.0000 - 1.0000  
**ID:** 14808-60-7  
**ROLE:** Pigment  

**HAZARDS:**  
**CANCER**  
US CDC - Occupational Carcinogens  
Occupational Carcinogen  

**CANCER**  
CA EPA - Prop 65  
Carcinogen - specific to chemical form or exposure route  

**CANCER**  
IARC  
Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources  

**CANCER**  
US NIH - Report on Carcinogens  
Known to be Human Carcinogen (respirable size - occupational setting)  

**CANCER**  
MAK  
Carcinogen Group 1 - Substances that cause cancer in man  

**CANCER**  
New Zealand - GHS  
6.7A - Known or presumed human carcinogens

FATTY ACIDS, C18, UNSATD., DIMERS, REACTION PRODUCTS WITH N,N-DIMETHYL-1,3-PROPANEDIAMINE AND 1,3-PROPANEDIAMINE  

**%:** 0.0000 - 1.0000  
**ID:** 162627-17-0  
**ROLE:** Stabilizer  

**HAZARDS:**  
**SKIN SENSITIZE**  
Japan - GHS  
Skin sensitizer - Category 1  

**SKIN SENSITIZE**  
Japan - GHS  
Skin sensitization - Category 1A  

**SKIN SENSITIZE**  
Japan - GHS  
Skin sensitization - Category 1B  

**SKIN IRRITATION**  
EU - GHS (H-Statements)  
H317 - May cause an allergic skin reaction

CUMENE (CUMENE)  

**%:** 0.0000 - 1.0000  
**ID:** 98-82-8  
**ROLE:** Thinner  

**HAZARDS:**  
**ACUTE AQUATIC**  
EU - R-phrases  
R51 - Toxic to Aquatic Organisms  

**CANCER**  
IARC  
Group 2b - Possibly carcinogenic to humans  

**CANCER**  
CA EPA - Prop 65  
Carcinogen  

**CANCER**  
US NIH - Report on Carcinogens  
Reasonably Anticipated to be Human Carcinogen  

**CHRON AQUATIC**  
EU - GHS (H-Statements)  
H411 - Toxic to aquatic life with long lasting effects
MAMMALIAN
EU - GHS (H-Statements)
H304 - May be fatal if swallowed and enters airways

ENDOCRINE
TEDX - Potential Endocrine Disruptors
Potential Endocrine Disruptor

CANCER
MAK
Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: See Material Notes.

TERLON (TERLON)
ID: 63148-69-6
%
0.0000 - 20.0000
GB: NoGS
RC: None
NANO: No
ROLE: Binder

HAZARDS:
AGENCY(IES) WITH WARNINGS:
None Found
No warnings found on HPD Priority lists

SUBSTANCE NOTES: Approximation for unspecified generic “Alkyd resin”. See Material Notes.

FORMALDEHYDE, MELAMINE POLYMER, METHYLATED (FORMALDEHYDE, MELAMINE POLYMER, METHYLATED)
ID: 68002-20-0
%
0.0000 - 5.0000
GB: LT-UNK
RC: None
NANO: No
ROLE: Crosslinking agent

HAZARDS:
AGENCY(IES) WITH WARNINGS:
None Found
No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Material Notes.

N-BUTANOL (N-BUTANOL)
ID: 71-36-3
%
0.0000 - 5.0000
GB: BM-2
RC: None
NANO: No
ROLE: Thinner

HAZARDS:
AGENCY(IES) WITH WARNINGS:
MAMMALIAN
EU - R-phrases
R22 - Harmful if Swallowed

SKIN IRRITATION
EU - R-phrases
R38 - Irritating to skin

EYE IRRITATION
EU - R-phrases
R41 - Risk of serious damage to eyes

SKIN IRRITATION
EU - GHS (H-Statements)
H315 - Causes skin irritation

EYE IRRITATION
EU - GHS (H-Statements)
H318 - Causes serious eye damage

SUBSTANCE NOTES: See Material Notes.

METHYL ETHYL KETOXIME (METHYL ETHYL KETOXIME)
ID: 96-29-7
%
0.0000 - 0.1000
GB: LT-1
RC: None
NANO: No
ROLE: Anti-skinning agent
HAZARDS: AGENCY(ES) WITH WARNINGS:

MAMMALIAN EU - R-phrases R21 - Harmful in Contact with Skin
CANCER EU - R-phrases R40 - Limited Evidence of Carcinogenic Effects
EYE IRRIGATION EU - R-phrases R41 - Risk of serious damage to eyes
SKIN SENSITIZE EU - R-phrases R43 - May cause sensitization by skin contact
SKIN SENSITIZE EU - GHS (H-Statements) H317 - May cause an allergic skin reaction
EYE IRRIGATION EU - GHS (H-Statements) H318 - Causes serious eye damage
CANCER EU - GHS (H-Statements) H351 - Suspected of causing cancer
CANCER MAK Carcinogen Group 2 - Considered to be carcinogenic for man
SKIN SENSITIZE MAK Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: See Material Notes.

LEAD OXIDE, RED (LEAD OXIDE, RED) ID: 1314-41-6

%: 0.0000 - 5.1000 GB: LT-1 RC: None NANO: No ROLE: Pigment

HAZARDS: AGENCY(ES) WITH WARNINGS:

MAMMALIAN EU - R-phrases R20 - Harmful by Inhalation (gas or vapor or dust/mist)
MAMMALIAN EU - R-phrases R22 - Harmful if Swallowed
ACUTE AQUATIC EU - R-phrases R50 - Very Toxic to Aquatic Organisms
DEVELOPMENTAL EU - R-phrases R61 - May cause harm to the unborn child
REPRODUCTIVE EU - R-phrases R62 - Possible risk of impaired fertility
DEVELOPMENTAL G&L - Neurotoxic Chemicals Developmental Neurotoxicant
CANCER IARC Group 2a - Agent is probably Carcinogenic to humans
CANCER CA EPA - Prop 65 Carcinogen
PBT US EPA - Toxics Release Inventory PBTs PBT
REPRODUCTIVE EU - SVHC Authorisation List Toxic to reproduction - Prioritized for listing
PBT OR DEQ - Priority Persistent Pollutants Priority Persistent Pollutant - Tier 1
ACUTE AQUATIC EU - GHS (H-Statements) H400 - Very toxic to aquatic life
CHRON AQUATIC EU - GHS (H-Statements) H410 - Very toxic to aquatic life with long lasting effects
DEVELOPMENTAL EU - GHS (H-Statements) H360Df - May damage the unborn child. Suspected of damaging fertility
REPRODUCTIVE EU - REACH Annex XVII CMRs Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans
### MULTIPLE
- **ChemSec - SIN List**: CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
- **German FEA - Substances Hazardous to Waters**: Class 3 - Severe Hazard to Waters
- **Cancer**: MAK - Carcinogen Group 2 - Considered to be carcinogenic for man
- **New Zealand - GHS**: 6.8A - Known or presumed human reproductive or developmental toxicants
- **Japan - GHS**: Toxic to reproduction - Category 1A
- **EU - Annex VI CMRs**: Reproductive Toxicity - Category 1A
- **Australia - GHS**: H360Df - May damage the unborn child. Suspected of damaging fertility

**SUBSTANCE NOTES**: See Material Notes.

### DOLOMITE (DOLOMITE)
**ID**: 16389-88-1

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0000 - 8.6000</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Extender</td>
</tr>
</tbody>
</table>

**HAZARDS**: None Found

**SUBSTANCE NOTES**: See Material Notes.

### BISPHENOL A-EPICHLOROHYDRIN ACRYLATE (BISPHENOL A-EPICHLOROHYDRIN ACRYLATE)
**ID**: 55818-57-0

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0000 - 1.1000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Binder</td>
</tr>
</tbody>
</table>

**HAZARDS**: None Found

**SUBSTANCE NOTES**: See Material Notes.

### SILVERING
**%**: 0.0000 - 0.0200

**PRODUCT THRESHOLD**: 1000 ppm

**RESIDUALS AND IMPURITIES CONSIDERED**: Yes

**RESIDUALS AND IMPURITIES NOTES**: Residuals analyzed and characterized by Walker.

**OTHER MATERIAL NOTES**: Substances left on mirrors following the silvering process.

### SILVER NITRATE (SILVER NITRATE)
**ID**: 7761-88-8

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>50.0000</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Product of silvering process</td>
</tr>
<tr>
<td>Substance Notes</td>
<td>See Material Notes.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------</td>
<td>---------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CUPRIC SULFATE, 5-HYDRATE (CUPRIC SULFATE, 5-HYDRATE)**

<table>
<thead>
<tr>
<th>%: 50.0000</th>
<th>GB: LT-P1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Product of silvering process</th>
</tr>
</thead>
</table>

**HAZARDS:**

<table>
<thead>
<tr>
<th>AGENCY(IES) WITH WARNINGS:</th>
<th>R34 - Causes burns</th>
</tr>
</thead>
</table>

**ACUTE AQUATIC**

<table>
<thead>
<tr>
<th>EU - GHS (H-Statements)</th>
<th>H400 - Very toxic to aquatic life</th>
</tr>
</thead>
</table>

**CHRON AQUATIC**

<table>
<thead>
<tr>
<th>EU - GHS (H-Statements)</th>
<th>H410 - Very toxic to aquatic life with long lasting effects</th>
</tr>
</thead>
</table>

**EYE IRRITATION**

<table>
<thead>
<tr>
<th>EU - GHS (H-Statements)</th>
<th>H318 - Causes serious eye damage</th>
</tr>
</thead>
</table>

**SUBSTANCE NOTES:**

See Material Notes.

**TIN DICHLORIDE (TIN DICHLORIDE)**

<table>
<thead>
<tr>
<th>%: Impurity/Residual</th>
<th>GB: LT-P1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Impurity/Residual</th>
</tr>
</thead>
</table>

**HAZARDS:**

<table>
<thead>
<tr>
<th>AGENCY(IES) WITH WARNINGS:</th>
<th>R23 - Toxic by Inhalation (gas, vapour, dust/mist)</th>
</tr>
</thead>
</table>

**ENDOCRINE**

<table>
<thead>
<tr>
<th>TEDX - Potential Endocrine Disruptors</th>
<th>Potential Endocrine Disruptor</th>
</tr>
</thead>
</table>

**MULTIPLE**

<table>
<thead>
<tr>
<th>German FEA - Substances Hazardous to Waters</th>
<th>Class 3 - Severe Hazard to Waters</th>
</tr>
</thead>
</table>

**SUBSTANCE NOTES:** Residual from silvering process.

**HYDROCHLORIC ACID 31.45 % IN AQUEOUS SOLUTION (HYDROCHLORIC ACID 31.45 % IN AQUEOUS SOLUTION)**

<table>
<thead>
<tr>
<th>%: Impurity/Residual</th>
<th>GB: BM-2</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Impurity/Residual</th>
</tr>
</thead>
</table>

**HAZARDS:**

<table>
<thead>
<tr>
<th>AGENCY(IES) WITH WARNINGS:</th>
<th>R23 - Toxic by Inhalation (gas, vapour, dust/mist)</th>
</tr>
</thead>
</table>

**MAMMALIAN**

<table>
<thead>
<tr>
<th>EU - R-phrases</th>
<th>R23 - Toxic by Inhalation (gas, vapour, dust/mist)</th>
</tr>
</thead>
</table>

**SUBSTANCE NOTES:** See Material Notes.
SKIN IRRITATION
EU - R-phrases
R35 - Causes severe burns

RESPIRATORY
AOEC - Asthmagens
Asthmagen (Rr) - irritant-induced

SKIN IRRITATION
EU - GHS (H-Statements)
H314 - Causes severe skin burns and eye damage

MAMMALIAN
EU - GHS (H-Statements)
H331 - Toxic if inhaled

MAMMALIAN
US EPA - EPCRA Extremely Hazardous Substances
Extremely Hazardous Substances

SUBSTANCE NOTES: Residual from silversing process.

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Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

**VOC EMISSIONS**

**CDPH Standard Method V1.1 - N/A**

CERTIFYING PARTY: Self-declared
APPLICABLE FACILITIES: N/A
CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: If the current version of the CDPH Standard Method does not provide an appropriate emissions scenario for the product type, and the product type cannot be tested using applicable CDPH Standard Method provisions for adapting the scenarios, “N/A” must be indicated. Note that there is no emissions scenario for exterior products.

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Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

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Section 5: General Notes

Residuals and impurities were partially considered since not all suppliers had the same amount of disclosure in their documentation. Information about residuals and impurities came from documents provided by Walker’s suppliers. Additional details are provided in Residuals / Impurities Notes.
MANUFACTURER INFORMATION

MANUFACTURER: Walker Glass Company Ltd.
ADDRESS: 9551 Ray Lawson Blvd
Montreal QC H1J 1L5, Canada
WEBSITE: www.walkerglass.com

CONTACT NAME: Vince Grippo
TITLE: Research and Development Director
PHONE: 514 352 3030
EMAIL: vince@walkerglass.com

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity
CAN Cancer
DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/corrosivity
GEN Gene mutation
GLO Global warming
MAM Mammalian/systemic/organ toxicity
MUL Multiple hazards
NEU Neurotoxicity
OZO Ozone depletion
PBT Persistent Bioaccumulative Toxic
PHY Physical Hazard (reactive)
REP Reproductive toxicity
RES Respiratory sensitization
SKI Skin sensitization/irritation/corrosivity
LAN Land Toxicity
NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)
BM-3 Benchmark 3 (use but still opportunity for improvement)
BM-2 Benchmark 2 (use but search for safer substitutes)
BM-1 Benchmark 1 (avoid - chemical of high concern)
BM-U Benchmark Unspecified (insufficient data to benchmark)
LT-P1 List Translator Possible Benchmark 1
LT-1 List Translator Likely Benchmark 1
LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
NoGS Unknown (no data on List Translator Lists)

Recycled Types

PreC Preconsumer (Post-Industrial)
PostC Postconsumer
Both Both Preconsumer and Postconsumer
Unk Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material
Nested Method / Product Threshold Substances listed within each material per threshold indicated per product
Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology
Third Party Verified Verification by independent certifier approved by HPDC
Preparer Third party preparer, if not self-prepared by manufacturer
Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:
- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.