



# Plexichrome PG Dark Green 2280

## ICP Construction

Version No: 2.4

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

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S.GHS.USA.EN

## SECTION 1 IDENTIFICATION

### Product Identifier

|                               |                                |
|-------------------------------|--------------------------------|
| Product name                  | Plexichrome PG Dark Green 2280 |
| Synonyms                      | Not Available                  |
| Other means of identification | Not Available                  |

### Recommended use of the chemical and restrictions on use

|                          |  |
|--------------------------|--|
| Relevant identified uses | Color Topcoating for Athletic Surfaces |
|--------------------------|--|

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

|                         |   |
|-------------------------|---|
| Registered company name | ICP Construction  |
| Address                 | 150 Dascomb Road MA 01810 United States   |
| Telephone               | 923-623-9980  |
| Fax                     | Not Available   |
| Website                 | <a href="https://www.icp-construction.com/">https://www.icp-construction.com/</a> |
| Email                   | Not Available   |

### Emergency phone number

|                                   |                |
|-----------------------------------|----------------|
| Association / Organisation        | Chemtel        |
| Emergency telephone numbers       | 1-800-255-3924 |
| Other emergency telephone numbers | 1-813-248-0585 |

## SECTION 2 HAZARD(S) IDENTIFICATION

### Classification of the substance or mixture

|                |  |
|----------------|--|
| Classification | Carcinogenicity Category 1A, Specific target organ toxicity - repeated exposure Category 2 |
|----------------|--|

### Label elements

|                     |  |
|---------------------|--|
| Hazard pictogram(s) |  |
|---------------------|--|

|             |               |
|-------------|---------------|
| SIGNAL WORD | <b>DANGER</b> |
|-------------|---------------|

### Hazard statement(s)

|      |  |
|------|--|
| H350 | May cause cancer.  |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

### Hazard(s) not otherwise specified

Not Applicable

### Precautionary statement(s) Prevention

|      |  |
|------|--|
| P201 | Obtain special instructions before use.          |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P281 | Use personal protective equipment as required.   |

Continued...

**Precautionary statement(s) Response**

|                  |  |
|------------------|--|
| <b>P308+P313</b> | IF exposed or concerned: Get medical advice/attention. |
| <b>P314</b>      | Get medical advice/attention if you feel unwell.       |

**Precautionary statement(s) Storage**

|             |                  |
|-------------|------------------|
| <b>P405</b> | Store locked up. |
|-------------|------------------|

**Precautionary statement(s) Disposal**

|             |   |
|-------------|---|
| <b>P501</b> | Dispose of contents/container in accordance with local regulations. |
|-------------|---|

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS****Substances**

See section below for composition of Mixtures

**Mixtures**

| CAS No     | %[weight] | Name                               |
|------------|-----------|------------------------------------|
| 1308-38-9  |           | <u>C.I. Pigment Green 17</u>       |
| 1309-37-1  | <1        | <u>ferric oxide</u>                |
| 14808-60-7 | 1-10      | <u>silica crystalline - quartz</u> |
| 14464-46-1 | 1-10      | <u>crystalite</u>                  |
| 107-21-1   | 1-10      | <u>ethylene glycol</u>             |

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

**SECTION 4 FIRST-AID MEASURES****Description of first aid measures**

|                     |  |
|---------------------|--|
| <b>Eye Contact</b>  | <p>If this product comes in contact with eyes:</p> <ul style="list-style-type: none"> <li>▶ Wash out immediately with water.</li> <li>▶ If irritation continues, seek medical attention.</li> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul> |
| <b>Skin Contact</b> | <p>If skin or hair contact occurs:</p> <ul style="list-style-type: none"> <li>▶ Flush skin and hair with running water (and soap if available).</li> <li>▶ Seek medical attention in event of irritation.</li> </ul>   |
| <b>Inhalation</b>   | <ul style="list-style-type: none"> <li>▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>▶ Other measures are usually unnecessary.</li> </ul>  |
| <b>Ingestion</b>    | <ul style="list-style-type: none"> <li>▶ Immediately give a glass of water.</li> <li>▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>  |

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

See Section 11

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

For acute or short term repeated exposures to ethylene glycol:

- ▶ Early treatment of ingestion is important. Ensure emesis is satisfactory.
- ▶ Test and correct for metabolic acidosis and hypocalcaemia.
- ▶ Apply sustained diuresis when possible with hypertonic mannitol.
- ▶ Evaluate renal status and begin haemodialysis if indicated. [I.L.O]
- ▶ Rapid absorption is an indication that emesis or lavage is effective only in the first few hours. Cathartics and charcoal are generally not effective.
- ▶ Correct acidosis, fluid/electrolyte balance and respiratory depression in the usual manner. Systemic acidosis (below 7.2) can be treated with intravenous sodium bicarbonate solution.
- ▶ Ethanol therapy prolongs the half-life of ethylene glycol and reduces the formation of toxic metabolites.
- ▶ Pyridoxine and thiamine are cofactors for ethylene glycol metabolism and should be given (50 to 100 mg respectively) intramuscularly, four times per day for 2 days.
- ▶ Magnesium is also a cofactor and should be replenished. The status of 4-methylpyrazole, in the treatment regime, is still uncertain. For clearance of the material and its metabolites, haemodialysis is much superior to peritoneal dialysis.

[Ellenhorn and Barceloux: Medical Toxicology]

It has been suggested that there is a need for establishing a new biological exposure limit before a workshift that is clearly below 100 mmol ethoxy-acetic acids per mole creatinine in morning urine of people occupationally exposed to ethylene glycol ethers. This arises from the finding that an increase in urinary stones may be associated with such exposures.

Laitinen J., et al: *Occupational & Environmental Medicine* 1996; 53, 595-600

**SECTION 5 FIRE-FIGHTING MEASURES****Extinguishing media**

- ▶ There is no restriction on the type of extinguisher which may be used.
- ▶ Use extinguishing media suitable for surrounding area.

**Special hazards arising from the substrate or mixture**

|                             |             |
|-----------------------------|-------------|
| <b>Fire Incompatibility</b> | None known. |
|-----------------------------|-------------|

**Special protective equipment and precautions for fire-fighters**

|                              |   |
|------------------------------|---|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water courses.</li> <li>▶ Use fire fighting procedures suitable for surrounding area.</li> <li>▶ <b>DO NOT</b> approach containers suspected to be hot.</li> <li>▶ Cool fire exposed containers with water spray from a protected location.</li> <li>▶ If safe to do so, remove containers from path of fire.</li> <li>▶ Equipment should be thoroughly decontaminated after use.</li> </ul> |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"> <li>▶ Non combustible.</li> <li>▶ Not considered a significant fire risk, however containers may burn.</li> </ul> <p>May emit poisonous fumes.</p>   |

**SECTION 6 ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

See section 8

**Environmental precautions**

See section 12

**Methods and material for containment and cleaning up**

|                     |  |
|---------------------|--|
| <b>Minor Spills</b> | <ul style="list-style-type: none"> <li>▶ Clean up all spills immediately.</li> <li>▶ Avoid breathing vapours and contact with skin and eyes.</li> <li>▶ Control personal contact with the substance, by using protective equipment.</li> <li>▶ Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>▶ Wipe up.</li> <li>▶ Place in a suitable, labelled container for waste disposal.</li> </ul>   |
| <b>Major Spills</b> | <p>Moderate hazard.</p> <ul style="list-style-type: none"> <li>▶ Clear area of personnel and move upwind.</li> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear breathing apparatus plus protective gloves.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water course.</li> <li>▶ Stop leak if safe to do so.</li> <li>▶ Contain spill with sand, earth or vermiculite.</li> <li>▶ Collect recoverable product into labelled containers for recycling.</li> <li>▶ Neutralise/decontaminate residue (see Section 13 for specific agent).</li> <li>▶ Collect solid residues and seal in labelled drums for disposal.</li> <li>▶ Wash area and prevent runoff into drains.</li> <li>▶ After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.</li> <li>▶ If contamination of drains or waterways occurs, advise emergency services.</li> </ul> |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

**SECTION 7 HANDLING AND STORAGE****Precautions for safe handling**

|                          |  |
|--------------------------|--|
| <b>Safe handling</b>     | <ul style="list-style-type: none"> <li>▶ Avoid all personal contact, including inhalation.</li> <li>▶ Wear protective clothing when risk of exposure occurs.</li> <li>▶ Use in a well-ventilated area.</li> <li>▶ Prevent concentration in hollows and sumps.</li> <li>▶ <b>DO NOT enter confined spaces until atmosphere has been checked.</b></li> <li>▶ <b>DO NOT allow material to contact humans, exposed food or food utensils.</b></li> <li>▶ Avoid contact with incompatible materials.</li> <li>▶ <b>When handling, DO NOT eat, drink or smoke.</b></li> <li>▶ Keep containers securely sealed when not in use.</li> <li>▶ Avoid physical damage to containers.</li> <li>▶ Always wash hands with soap and water after handling.</li> <li>▶ Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>▶ Use good occupational work practice.</li> <li>▶ Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>▶ Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul> |
| <b>Other information</b> |  |

**Conditions for safe storage, including any incompatibilities**

|                                |   |
|--------------------------------|---|
| <b>Suitable container</b>      | <ul style="list-style-type: none"> <li>▶ Polyethylene or polypropylene container.</li> <li>▶ Packing as recommended by manufacturer.</li> <li>▶ Check all containers are clearly labelled and free from leaks.</li> </ul>   |
| <b>Storage incompatibility</b> | <p>Silicas:</p> <ul style="list-style-type: none"> <li>▶ react with hydrofluoric acid to produce silicon tetrafluoride gas</li> <li>▶ react with xenon hexafluoride to produce explosive xenon trioxide</li> <li>▶ reacts exothermically with oxygen difluoride, and explosively with chlorine trifluoride (these halogenated materials are not commonplace industrial materials) and other fluorine-containing compounds</li> <li>▶ may react with fluorine, chlorates</li> <li>▶ are incompatible with strong oxidisers, manganese trioxide, chlorine trioxide, strong alkalis, metal oxides, concentrated orthophosphoric acid, vinyl acetate</li> <li>▶ may react vigorously when heated with alkali carbonates.</li> </ul> <p>None known</p> |

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## Control parameters

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

## INGREDIENT DATA

| Source  | Ingredient                  | Material name   | TWA  | STEL          | Peak          | Notes   |
|---|-----------------------------|---|--|---------------|---------------|---|
| US OSHA Permissible Exposure Levels (PELs) - Table Z1 | ferric oxide                | Iron oxide fume   | 10 mg/m3                                   | Not Available | Not Available | See Appendix D  |
| US NIOSH Recommended Exposure Limits (RELs)           | ferric oxide                | Iron(III)oxide, Iron oxide red, Red iron oxide, Red oxide                       | 5 mg/m3                                    | Not Available | Not Available | TLV® Basis: Pneumoconiosis  |
| US NIOSH Recommended Exposure Limits (RELs)           | ferric oxide                | Ferric oxide, Iron(III) oxide   | 5 mg/m3                                    | Not Available | Not Available | Not Available   |
| US ACGIH Threshold Limit Values (TLV)                 | ferric oxide                | Iron oxide (Fe2O3)  | Not Available                              | Not Available | Not Available | Not Available   |
| US OSHA Permissible Exposure Levels (PELs) - Table Z1 | silica crystalline - quartz | Silica, crystalline quartz, respirable dust                                     | 10/(% SiO2+ 2) mg/m3 / 250/(%SiO2+5) mppcf | Not Available | Not Available | See Table Z-3   |
| US OSHA Permissible Exposure Levels (PELs) - Table Z3 | silica crystalline - quartz | Silica: Crystalline Quartz  | 30/(% SiO2+ 2) mg/m3                       | Not Available | Not Available | (Respirable);(TWA mppcf (The percentage of crystalline silica in the formula is the amount determined from airborne samples, except in those instances in which other methods have been shown to be applicable)); (TWA mg/m3 (e)) |
| US OSHA Permissible Exposure Levels (PELs) - Table Z3 | silica crystalline - quartz | Silica: Crystalline Quartz  | 0.05 mg/m3                                 | Not Available | Not Available | (Total Dust)  |
| US NIOSH Recommended Exposure Limits (RELs)           | silica crystalline - quartz | Cristobalite, Quartz, Tridymite, Tripoli  | Not Available                              | Not Available | Not Available | Ca See Appendix A   |
| US OSHA Permissible Exposure Levels (PELs) - Table Z1 | cristobalite                | Silica, crystalline cristobalite, respirable dust                               | Not Available                              | Not Available | Not Available | See Table Z-3   |
| US OSHA Permissible Exposure Levels (PELs) - Table Z3 | cristobalite                | Silica: Crystalline Cristobalite  | Not Available                              | Not Available | Not Available | Use 1/2 the value calculated from the count or mass formulae for quartz   |
| US NIOSH Recommended Exposure Limits (RELs)           | ethylene glycol             | 1,2-Dihydroxyethane; 1,2-Ethanedio; Glycol; Glycol alcohol; Monoethylene glycol | Not Available                              | Not Available | 100 mg/m3     | See Appendix D  |
| US ACGIH Threshold Limit Values (TLV)                 | ethylene glycol             | ‡ Ethylene glycol   | Not Available                              | Not Available | Not Available | TLV® Basis: URT & eye irr   |

## EMERGENCY LIMITS

| Ingredient                  | Material name  | TEEL-1      | TEEL-2    | TEEL-3      |
|-----------------------------|--|-------------|-----------|-------------|
| C.I. Pigment Green 17       | Chromic oxide; (Chromium(III) oxide; Chromium sesquioxide) | 2.2 mg/m3   | 24 mg/m3  | 140 mg/m3   |
| ferric oxide                | Iron oxide; (Ferric oxide)                                 | 15 mg/m3    | 360 mg/m3 | 2,200 mg/m3 |
| silica crystalline - quartz | Silica, crystalline-quartz; (Silicon dioxide)              | 0.075 mg/m3 | 33 mg/m3  | 200 mg/m3   |
| cristobalite                | Cristobalite   | 0.075 mg/m3 | 33 mg/m3  | 200 mg/m3   |
| ethylene glycol             | Ethylene glycol  | 30 ppm      | 40 ppm    | 60 ppm      |

| Ingredient                  | Original IDLH         | Revised IDLH  |
|-----------------------------|-----------------------|---------------|
| C.I. Pigment Green 17       | N.E. mg/m3 / N.E. ppm | 25 mg/m3      |
| ferric oxide                | N.E. mg/m3 / N.E. ppm | 2,500 mg/m3   |
| silica crystalline - quartz | N.E. mg/m3 / N.E. ppm | 50 mg/m3      |
| cristobalite                | N.E. mg/m3 / N.E. ppm | 25 mg/m3      |
| ethylene glycol             | Not Available         | Not Available |

## Exposure controls

|   |  |
|---|--|
| <b>Appropriate engineering controls</b> | <p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.</p> <p>The basic types of engineering controls are:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.</p> <p>Employers may need to use multiple types of controls to prevent employee overexposure.</p> <p>Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection.</p> <p>Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection.</p> <p>An approved self contained breathing apparatus (SCBA) may be required in some situations.</p> <p>Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" velocities which, in</p> |
|---|--|

turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

| Type of Contaminant:  | Air Speed:                   |
|---|------------------------------|
| solvent, vapours, degreasing etc., evaporating from tank (in still air).  | 0.25-0.5 m/s (50-100 f/min.) |
| aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) | 0.5-1 m/s (100-200 f/min.)   |
| direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)  | 1-2.5 m/s (200-500 f/min.)   |
| grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).  | 2.5-10 m/s (500-2000 f/min.) |

Within each range the appropriate value depends on:

| Lower end of the range                                     | Upper end of the range           |
|--|----------------------------------|
| 1: Room air currents minimal or favourable to capture      | 1: Disturbing room air currents  |
| 2: Contaminants of low toxicity or of nuisance value only. | 2: Contaminants of high toxicity |
| 3: Intermittent, low production.                           | 3: High production, heavy use    |
| 4: Large hood or large air mass in motion                  | 4: Small hood-local control only |

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

#### Personal protection



#### Eye and face protection

- ▶ Safety glasses with side shields
- ▶ Chemical goggles.
- ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

#### Skin protection

See Hand protection below

#### Hands/feet protection

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- frequency and duration of contact,
- chemical resistance of glove material,
- glove thickness and
- dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
- Contaminated gloves should be replaced.

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

- ▶ Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

#### Body protection

See Other protection below

#### Other protection

- ▶ Overalls.
- ▶ P.V.C. apron.
- ▶ Barrier cream.
- ▶ Skin cleansing cream.
- ▶ Eye wash unit.

#### Thermal hazards

Not Available

**Respiratory protection**

Type AX Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

If inhalation risk above the TLV exists, wear approved dust respirator.

Use respirators with protection factors appropriate for the exposure level.

- ▶ Up to 5 X TLV, use valveless mask type; up to 10 X TLV, use 1/2 mask dust respirator
- ▶ Up to 50 X TLV, use full face dust respirator or demand type C air supplied respirator
- ▶ Up to 500 X TLV, use powered air-purifying dust respirator or a Type C pressure demand supplied-air respirator
- ▶ Over 500 X TLV wear full-face self-contained breathing apparatus with positive pressure mode or a combination respirator with a Type C positive pressure supplied-air full-face respirator and an auxiliary self-contained breathing apparatus operated in pressure demand or other positive pressure mode

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

| Appearance                                   | Text          |   |               |
|--|---------------|---|---------------|
| Physical state                               | Liquid        | Relative density (Water = 1)            | Not Available |
| Odour  | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold                              | Not Available | Auto-ignition temperature (°C)          | Not Available |
| pH (as supplied)                             | 8.5           | Decomposition temperature               | Not Available |
| Melting point / freezing point (°C)          | Not Available | Viscosity (cSt)                         | Not Available |
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol)                | Not Available |
| Flash point (°C)                             | Not Available | Taste                                   | Not Available |
| Evaporation rate                             | Not Available | Explosive properties                    | Not Available |
| Flammability                                 | Not Available | Oxidising properties                    | Not Available |
| Upper Explosive Limit (%)                    | Not Available | Surface Tension (dyn/cm or mN/m)        | Not Available |
| Lower Explosive Limit (%)                    | Not Available | Volatile Component (%vol)               | Not Available |
| Vapour pressure (kPa)                        | Not Available | Gas group                               | Not Available |
| Solubility in water (g/L)                    | Immiscible    | pH as a solution (1%)                   | Not Available |
| Vapour density (Air = 1)                     | Not Available | VOC g/L                                 | Not Available |

**SECTION 10 STABILITY AND REACTIVITY**

|                                    |  |
|------------------------------------|--|
| Reactivity                         | See section 7  |
| Chemical stability                 | <ul style="list-style-type: none"> <li>▶ Unstable in the presence of incompatible materials.</li> <li>▶ Product is considered stable.</li> <li>▶ Hazardous polymerisation will not occur.</li> </ul> |
| Possibility of hazardous reactions | See section 7  |
| Conditions to avoid                | See section 7  |
| Incompatible materials             | See section 7  |
| Hazardous decomposition products   | See section 5  |

**SECTION 11 TOXICOLOGICAL INFORMATION****Information on toxicological effects**

|                                |   |          |            |
|--------------------------------|---|----------|------------|
| Inhaled                        | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.   |          |            |
| Ingestion                      | The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.  |          |            |
| Skin Contact                   | The liquid may be able to be mixed with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives.<br>Open cuts, abraded or irritated skin should not be exposed to this material<br>Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. |          |            |
| Eye                            | Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).  |          |            |
| Chronic                        | Studies show that inhaling this substance for over a long period (e.g. in an occupational setting) may increase the risk of cancer.<br>Substance accumulation, in the human body, is likely and may cause some concern following repeated or long-term occupational exposure.<br>Crystalline silicas activate the inflammatory response of white blood cells after they injure the lung epithelium. Chronic exposure to crystalline silicas reduces lung capacity and predisposes to chest infections.  |          |            |
| Plexichrome PG Dark Green 2280 | <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">TOXICITY</td> <td style="width: 50%;">IRRITATION</td> </tr> </table>   | TOXICITY | IRRITATION |
| TOXICITY                       | IRRITATION  |          |            |

|                             |  |                                  |
|-----------------------------|--|----------------------------------|
|                             | Not Available  | Not Available                    |
| C.I. Pigment Green 17       | TOXICITY   | IRRITATION                       |
|                             | Oral (rat) LD50: >5000 mg/kg <sup>[1]</sup>  | Not Available                    |
| ferric oxide                | TOXICITY   | IRRITATION                       |
|                             | Oral (rat) LD50: >5000 mg/kg <sup>[1]</sup>  | Not Available                    |
| silica crystalline - quartz | TOXICITY   | IRRITATION                       |
|                             | Not Available  | Not Available                    |
| cristobalite                | TOXICITY   | IRRITATION                       |
|                             | Not Available  | Not Available                    |
| ethylene glycol             | TOXICITY   | IRRITATION                       |
|                             | Dermal (rabbit) LD50: 9530 mg/kgD <sup>[2]</sup>   | Eye (rabbit): 100 mg/1h - mild   |
|                             | Oral (rat) LD50: 4700 mg/kg <sup>[2]</sup>   | Eye (rabbit): 12 mg/m3/3D        |
|                             |  | Eye (rabbit): 1440mg/6h-moderate |
|                             |  | Eye (rabbit): 500 mg/24h - mild  |
|                             |  | Skin (rabbit): 555 mg(open)-mild |
| <b>Legend:</b>              | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances |                                  |

|  |  |
|--|--|
| C.I. PIGMENT GREEN 17                      | <p>The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type.</p> <p>On skin and inhalation exposure, chromium and its compounds (except hexavalent) can be a potent sensitiser, as particulates. Studies show that they have a complex toxicity mechanism with hexavalent chromium associated with an increased risk of lung damage and respiratory cancers (primarily bronchogenic and nose cancers). However, there is no evidence that elemental, divalent, or trivalent chromium compounds causes cancer or genetic toxicity.</p> <p>The substance is classified by IARC as Group 3:<br/> <b>NOT</b> classifiable as to its carcinogenicity to humans.<br/> Evidence of carcinogenicity may be inadequate or limited in animal testing.<br/> Substance has been investigated as a mutagen in bacteria and rodents and a tumorigen by intraperitoneal, intrapleural and intratracheal administration to rats.</p> |
| FERRIC OXIDE                               | Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant.  |
| CRISTOBALITE                               | Inhalation (human) TCLo: 16 mppcf*8H/17.9y-1 * Millions of particles per cubic foot  |
| ETHYLENE GLYCOL                            | For ethylene glycol:<br>Ethylene glycol is quickly and extensively absorbed throughout the gastrointestinal tract. Limited information suggests that it is also absorbed through the airways; absorption through skin is apparently slow. Following absorption, it is distributed throughout the body.<br>[Estimated Lethal Dose (human) 100 ml; RTECS quoted by Orica] Substance is reproductive effector in rats (birth defects). Mutagenic to rat cells.  |
| SILICA CRYSTALLINE - QUARTZ & CRISTOBALITE | <b>WARNING:</b> For inhalation exposure <u>ONLY</u> : This substance has been classified by the IARC as Group 1: <b>CARCINOGENIC TO HUMANS</b>   |
| SILICA CRYSTALLINE - QUARTZ & CRISTOBALITE | The International Agency for Research on Cancer (IARC) has classified occupational exposures to <b>respirable</b> (<5 um) crystalline silica as being carcinogenic to humans . This classification is based on what IARC considered sufficient evidence from epidemiological studies of humans for the carcinogenicity of inhaled silica in the forms of quartz and cristobalite. Crystalline silica is also known to cause silicosis, a non-cancerous lung disease.   |

|                                   |   |                          |   |
|-----------------------------------|---|--------------------------|---|
| Acute Toxicity                    | ☒ | Carcinogenicity          | ✓ |
| Skin Irritation/Corrosion         | ☒ | Reproductivity           | ☒ |
| Serious Eye Damage/Irritation     | ☒ | STOT - Single Exposure   | ☒ |
| Respiratory or Skin sensitisation | ☒ | STOT - Repeated Exposure | ✓ |
| Mutagenicity                      | ☒ | Aspiration Hazard        | ☒ |

**Legend:** ✗ – Data available but does not fill the criteria for classification  
✓ – Data available to make classification  
☒ – Data Not Available to make classification

## SECTION 12 ECOLOGICAL INFORMATION

### Toxicity

| Plexichrome PG Dark Green 2280 | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
|--------------------------------|----------|--------------------|---------|-------|--------|
|--------------------------------|----------|--------------------|---------|-------|--------|

## Plexichrome PG Dark Green 2280

|                             | Not Applicable | Not Applicable     | Not Applicable                | Not Applicable | Not Applicable |
|-----------------------------|----------------|--------------------|-------------------------------|----------------|----------------|
| C.I. Pigment Green 17       | ENDPOINT       | TEST DURATION (HR) | SPECIES                       | VALUE          | SOURCE         |
|                             | LC50           | 96                 | Fish                          | >0.001mg/L     | 2              |
|                             | EC50           | 72                 | Algae or other aquatic plants | >0.1481mg/L    | 2              |
|                             | EC50           | 504                | Crustacea                     | >0.0144mg/L    | 2              |
|                             | NOEC           | 96                 | Fish                          | 0.001mg/L      | 2              |
| ferric oxide                | ENDPOINT       | TEST DURATION (HR) | SPECIES                       | VALUE          | SOURCE         |
|                             | LC50           | 96                 | Fish                          | 0.05mg/L       | 2              |
|                             | EC50           | 72                 | Algae or other aquatic plants | 18mg/L         | 2              |
|                             | EC50           | 504                | Crustacea                     | 4.49mg/L       | 2              |
|                             | NOEC           | 504                | Fish                          | 0.52mg/L       | 2              |
| silica crystalline - quartz | ENDPOINT       | TEST DURATION (HR) | SPECIES                       | VALUE          | SOURCE         |
|                             | Not Applicable | Not Applicable     | Not Applicable                | Not Applicable | Not Applicable |
| cristobalite                | ENDPOINT       | TEST DURATION (HR) | SPECIES                       | VALUE          | SOURCE         |
|                             | Not Applicable | Not Applicable     | Not Applicable                | Not Applicable | Not Applicable |
| ethylene glycol             | ENDPOINT       | TEST DURATION (HR) | SPECIES                       | VALUE          | SOURCE         |
|                             | LC50           | 96                 | Fish                          | 2284.940mg/L   | 3              |
|                             | EC50           | 48                 | Crustacea                     | 5046.29mg/L    | 5              |
|                             | EC50           | 96                 | Algae or other aquatic plants | 6500-13000mg/L | 1              |
|                             | EC50           | Not Applicable     | Crustacea                     | =10mg/L        | 1              |
|                             | NOEC           | 552                | Crustacea                     | >=1000mg/L     | 2              |

**Legend:** Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. MET1 (Japan) - Bioconcentration Data 8. Vendor Data

**DO NOT** discharge into sewer or waterways.

#### Persistence and degradability

| Ingredient      | Persistence: Water/Soil   | Persistence: Air            |
|-----------------|---------------------------|-----------------------------|
| ethylene glycol | LOW (Half-life = 24 days) | LOW (Half-life = 3.46 days) |

#### Bioaccumulative potential

| Ingredient      | Bioaccumulation |
|-----------------|-----------------|
| ethylene glycol | LOW (BCF = 200) |

#### Mobility in soil

| Ingredient      | Mobility       |
|-----------------|----------------|
| ethylene glycol | HIGH (KOC = 1) |

## SECTION 13 DISPOSAL CONSIDERATIONS

#### Waste treatment methods

|                              |  |
|------------------------------|--|
| Product / Packaging disposal | <p>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</p> <p>A Hierarchy of Controls seems to be common - the user should investigate:</p> <ul style="list-style-type: none"> <li>▶ Reduction</li> <li>▶ Reuse</li> <li>▶ Recycling</li> <li>▶ Disposal (if all else fails)</li> </ul> <p>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.</p> <ul style="list-style-type: none"> <li>▶ <b>DO NOT</b> allow wash water from cleaning or process equipment to enter drains.</li> <li>▶ It may be necessary to collect all wash water for treatment before disposal.</li> <li>▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>▶ Where in doubt contact the responsible authority.</li> </ul> |
|                              |  |

Continued...



- ▶ Recycle wherever possible.
- ▶ Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- ▶ Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).
- ▶ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

## SECTION 14 TRANSPORT INFORMATION

### Labels Required

|                  |    |
|------------------|----|
| Marine Pollutant | NO |
|------------------|----|

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

## SECTION 15 REGULATORY INFORMATION

### Safety, health and environmental regulations / legislation specific for the substance or mixture

#### C.I. PIGMENT GREEN 17(1308-38-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

|   |   |
|---|---|
| International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs | US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants |
| US - Alaska Limits for Air Contaminants   | US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants              |
| US - California Permissible Exposure Limits for Chemical Contaminants                         | US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)                                  |
| US - Hawaii Air Contaminant Limits  | US Clean Air Act - Hazardous Air Pollutants   |
| US - Idaho - Limits for Air Contaminants  | US CWA (Clean Water Act) - Priority Pollutants  |
| US - Massachusetts - Right To Know Listed Chemicals   | US CWA (Clean Water Act) - Toxic Pollutants   |
| US - Michigan Exposure Limits for Air Contaminants  | US EPA Carcinogens Listing  |
| US - Minnesota Permissible Exposure Limits (PELs)   | US EPCRA Section 313 Chemical List  |
| US - Oregon Permissible Exposure Limits (Z-1)   | US NIOSH Recommended Exposure Limits (RELs)   |
| US - Rhode Island Hazardous Substance List  | US OSHA Permissible Exposure Levels (PELs) - Table Z1   |
| US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants                     | US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory                         |
| US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants   |   |

#### FERRIC OXIDE(1309-37-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

|   |   |
|---|---|
| International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs | US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants                     |
| US - Alaska Limits for Air Contaminants   | US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants   |
| US - California Permissible Exposure Limits for Chemical Contaminants                         | US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants |
| US - Hawaii Air Contaminant Limits  | US - Washington Permissible exposure limits of air contaminants                               |
| US - Idaho - Limits for Air Contaminants  | US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants              |
| US - Massachusetts - Right To Know Listed Chemicals   | US ACGIH Threshold Limit Values (TLV)   |
| US - Michigan Exposure Limits for Air Contaminants  | US ACGIH Threshold Limit Values (TLV) - Carcinogens   |
| US - Minnesota Permissible Exposure Limits (PELs)   | US NIOSH Recommended Exposure Limits (RELs)   |
| US - Oregon Permissible Exposure Limits (Z-1)   | US OSHA Permissible Exposure Levels (PELs) - Table Z1   |
| US - Pennsylvania - Hazardous Substance List  | US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory                         |
| US - Rhode Island Hazardous Substance List  |   |

#### SILICA CRYSTALLINE - QUARTZ(14808-60-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

|   |  |
|---|--|
| International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs | US - Rhode Island Hazardous Substance List   |
| US - Alaska Limits for Air Contaminants   | US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants  |
| US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs)       | US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants  |
| US - California Permissible Exposure Limits for Chemical Contaminants                         | US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants  |
| US - California Proposition 65 - Carcinogens  | US - Washington Permissible exposure limits of air contaminants  |
| US - Hawaii Air Contaminant Limits  | US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values   |
| US - Idaho - Limits for Air Contaminants  | US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants   |
| US - Idaho - Toxic and Hazardous Substances - Mineral Dust                                    | US - Wyoming Toxic and Hazardous Substances Table Z-3 Mineral Dusts  |
| US - Massachusetts - Right To Know Listed Chemicals   | US ACGIH Threshold Limit Values (TLV) - Carcinogens  |
| US - Michigan Exposure Limits for Air Contaminants  | US National Toxicology Program (NTP) 14th Report Part A Known to be Human Carcinogens  |
| US - Minnesota Permissible Exposure Limits (PELs)   | US NIOSH Recommended Exposure Limits (RELs)  |
| US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Carcinogens     | US OSHA Permissible Exposure Levels (PELs) - Table Z1  |
| US - Oregon Permissible Exposure Limits (Z-1)   | US OSHA Permissible Exposure Levels (PELs) - Table Z3  |
| US - Oregon Permissible Exposure Limits (Z-3)   | US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Risk Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity |
| US - Pennsylvania - Hazardous Substance List  | US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory  |

#### CRISTOBALITE(14464-46-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

|   |   |
|---|---|
| US - Alaska Limits for Air Contaminants   | US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants                     |
| US - California Permissible Exposure Limits for Chemical Contaminants                     | US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants   |
| US - Hawaii Air Contaminant Limits  | US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants |
| US - Idaho - Limits for Air Contaminants  | US - Washington Permissible exposure limits of air contaminants                               |
| US - Idaho - Toxic and Hazardous Substances - Mineral Dust                                | US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values      |
| US - Massachusetts - Right To Know Listed Chemicals                                       | US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants              |
| US - Michigan Exposure Limits for Air Contaminants  | US - Wyoming Toxic and Hazardous Substances Table Z-3 Mineral Dusts                           |
| US - Minnesota Permissible Exposure Limits (PELs)   | US ACGIH Threshold Limit Values (TLV) - Carcinogens   |
| US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Carcinogens | US OSHA Permissible Exposure Levels (PELs) - Table Z1   |
| US - Oregon Permissible Exposure Limits (Z-1)   | US OSHA Permissible Exposure Levels (PELs) - Table Z3   |
| US - Oregon Permissible Exposure Limits (Z-3)   | US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory                         |
| US - Pennsylvania - Hazardous Substance List  |   |

**ETHYLENE GLYCOL(107-21-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS**

|   |   |
|---|---|
| US - Alaska Limits for Air Contaminants   | US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants |
| US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs)     | US - Washington Permissible exposure limits of air contaminants                               |
| US - California Permissible Exposure Limits for Chemical Contaminants                       | US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values      |
| US - California Proposition 65 - Reproductive Toxicity                                      | US ACGIH Threshold Limit Values (TLV)   |
| US - Hawaii Air Contaminant Limits  | US ACGIH Threshold Limit Values (TLV) - Carcinogens   |
| US - Massachusetts - Right To Know Listed Chemicals   | US ACGIH Threshold Limit Values (TLV) - Notice of Intended Changes                            |
| US - Michigan Exposure Limits for Air Contaminants  | US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)                                  |
| US - Minnesota Permissible Exposure Limits (PELs)   | US Clean Air Act - Hazardous Air Pollutants   |
| US - Oregon Permissible Exposure Limits (Z-1)   | US EPCRA Section 313 Chemical List  |
| US - Pennsylvania - Hazardous Substance List  | US NIOSH Recommended Exposure Limits (RELs)   |
| US - Rhode Island Hazardous Substance List  | US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants              |
| US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants                   | US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory                         |
| US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants |   |

**Federal Regulations****Superfund Amendments and Reauthorization Act of 1986 (SARA)****SECTION 311/312 HAZARD CATEGORIES**

|                                 |     |
|---------------------------------|-----|
| Immediate (acute) health hazard | No  |
| Delayed (chronic) health hazard | Yes |
| Fire hazard                     | No  |
| Pressure hazard                 | No  |
| Reactivity hazard               | No  |

**US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)**

| Name            | Reportable Quantity in Pounds (lb) | Reportable Quantity in kg |
|-----------------|------------------------------------|---------------------------|
| Ethylene glycol | 5000                               | 2270                      |

**State Regulations****US. CALIFORNIA PROPOSITION 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm

**US - CALIFORNIA PROPOSITION 65 - CARCINOGENS & REPRODUCTIVE TOXICITY (CRT): LISTED SUBSTANCE**

Silica, crystalline (airborne particles of respirable size), Ethylene glycol (ingested) Listed

| National Inventory            | Status   |
|-------------------------------|--|
| Australia - AICS              | Y  |
| Canada - DSL                  | Y  |
| Canada - NDSL                 | N (silica crystalline - quartz; cristobalite; ethylene glycol; ferric oxide; C.I. Pigment Green 17)  |
| China - IECSC                 | Y  |
| Europe - EINEC / ELINCS / NLP | Y  |
| Japan - ENCS                  | N (silica crystalline - quartz; cristobalite; ethylene glycol; ferric oxide; C.I. Pigment Green 17)  |
| Korea - KECI                  | Y  |
| New Zealand - NZIoC           | Y  |
| Philippines - PICCS           | Y  |
| USA - TSCA                    | Y  |
| <b>Legend:</b>                | Y = All ingredients are on the inventory<br>N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |

**SECTION 16 OTHER INFORMATION****CONTACT POINT**

\*\*PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES\*\*

**Other information****Ingredients with multiple cas numbers**

| Name                        | CAS No   |
|-----------------------------|--|
| C.I. Pigment Green 17       | 1308-38-9, 68909-79-5  |
| silica crystalline - quartz | 14808-60-7, 122304-48-7, 122304-49-8, 12425-26-2, 1317-79-9, 70594-95-5, 87347-84-0, 308075-07-2 |

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

**Definitions and abbreviations**

PC – TWA: Permissible Concentration-Time Weighted Average  
PC – STEL: Permissible Concentration-Short Term Exposure Limit  
IARC: International Agency for Research on Cancer  
ACGIH: American Conference of Governmental Industrial Hygienists  
STEL: Short Term Exposure Limit  
TEEL: Temporary Emergency Exposure Limit.  
IDLH: Immediately Dangerous to Life or Health Concentrations  
OSF: Odour Safety Factor  
NOAEL :No Observed Adverse Effect Level  
LOAEL: Lowest Observed Adverse Effect Level  
TLV: Threshold Limit Value  
LOD: Limit Of Detection  
OTV: Odour Threshold Value  
BCF: BioConcentration Factors  
BEI: Biological Exposure Index

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TEL (+61 3) 9572 4700.