## **SAFETY DATA SHEET**



Date of issue/Date of revision14 December 2018Version 12

| Section 1. Identification        |  |  |
|----------------------------------|--|--|
| Product name                     | : PS 890 C 80 Part A   |  |
| Product code                     | : PS 890 C 80 Part A   |  |
| Other means of identification    | : Not available.   |  |
| Product type                     | : Liquid.  |  |
| Relevant identified uses o       | f the substance or mixture and uses advised against  |  |
| Product use                      | : Industrial applications.   |  |
| Use of the substance/<br>mixture | : Sealants   |  |
| Uses advised against             | : Not applicable.  |  |
| Manufacturer                     | : PPG Aerospace PRC-DeSoto<br>12780 San Fernando Road<br>Sylmar, CA 91342                              |  |
| Emergency telephone<br>number    | Phone: 818 362 6711<br>: (412) 434-4515 (U.S.)<br>(514) 645-1320 (Canada)<br>01-800-00-21-400 (Mexico) |  |

### Section 2. Hazards identification

| OSHA/HCS status                            | <ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard<br/>(29 CFR 1910.1200).</li> </ul>   |
|--|---|
| Classification of the substance or mixture | : ACUTE TOXICITY (oral) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4<br>CARCINOGENICITY - Category 2<br>TOXIC TO REPRODUCTION (Fertility) - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (brain) - Category 2 |
|  | Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 9.4% (Oral), 92.5% (Dermal), 49.6% (Inhalation)  |
| GHS label elements                         |   |
| Hazard pictograms                          |   |
| Signal word                                | : Warning   |

**United States** 

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### Section 2. Hazards identification

| Hazard statements                   | <ul> <li>Harmful if swallowed or if inhaled.</li> <li>Suspected of damaging fertility.</li> <li>Suspected of causing cancer.</li> <li>May cause damage to organs through prolonged or repeated exposure. (brain)</li> </ul>  |
|-------------------------------------|--|
| Precautionary statements            |  |
| Prevention                          | : Obtain special instructions before use. Do not handle until all safety precautions have<br>been read and understood. Wear protective gloves. Wear eye or face protection.<br>Wear protective clothing. Use only outdoors or in a well-ventilated area. Do not breathe<br>vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly<br>after handling. |
| Response                            | : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.  |
| Storage                             | : Store locked up.   |
| Disposal                            | : Dispose of contents and container in accordance with all local, regional, national and international regulations.  |
| Supplemental label<br>elements      | : Sanding and grinding dusts may be harmful if inhaled. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.   |
| Hazards not otherwise<br>classified | : Oxidising potential : Contact with combustible material may cause fire. Keep away from clothing, incompatible materials and combustible materials. This material increases the risk of fire and may aid combustion. Prolonged or repeated contact may dry skin and cause irritation.   |

### Section 3. Composition/information on ingredients

| Substance/mixture | 1 | Mixture            |
|-------------------|---|--------------------|
| Product name      | ÷ | PS 890 C 80 Part A |

| Ingredient name   | %           | CAS number |
|---|-------------|------------|
| manganese dioxide                                       | ≥20 - ≤50   | 1313-13-9  |
| Terphenyl, hydrogenated                                 | ≥20 - ≤50   | 61788-32-7 |
| Zeolites  | ≥5.0 - ≤10  | 1318-02-1  |
| Polyphenyls, quater- and higher, partially hydrogenated | ≥5.0 - ≤10  | 68956-74-1 |
| Talc , not containing asbestiform fibres                | ≥1.0 - ≤5.0 | 14807-96-6 |
| carbon black, respirable powder                         | ≥1.0 - ≤5.0 | 1333-86-4  |
| magnesium carbonate                                     | ≥1.0 - ≤5.0 | 546-93-0   |
| terphenyl   | ≥1.0 - ≤5.0 | 26140-60-3 |
| 1,3-diphenylguanidine                                   | ≥1.0 - ≤4.8 | 102-06-7   |

SUB codes represent substances without registered CAS Numbers.

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

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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### Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person. Description of necessary first aid measures

| Eye contact  | <ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids<br/>apart for at least 10 minutes and seek immediate medical advice.</li> </ul>  |
|--------------|--|
| Inhalation   | <ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is<br/>irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained<br/>personnel.</li> </ul> |
| Skin contact | <ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water<br/>or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>   |
| Ingestion    | <ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>  |

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

| Potential acute health effect | <u>ots</u>   |
|-------------------------------|--|
| Eye contact                   | : No known significant effects or critical hazards.  |
| Inhalation                    | : Harmful if inhaled.  |
| Skin contact                  | : Defatting to the skin. May cause skin dryness and irritation.  |
| Ingestion                     | : Harmful if swallowed.  |
| Over-exposure signs/symp      | i <u>toms</u>  |
| Eye contact                   | : No specific data.  |
| Inhalation                    | : Adverse symptoms may include the following:<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations  |
| Skin contact                  | : Adverse symptoms may include the following:<br>irritation<br>dryness<br>cracking<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations   |
| Ingestion                     | : Adverse symptoms may include the following:<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations  |
| ndication of immediate med    | lical attention and special treatment needed, if necessary   |
| Notes to physician            | : In case of inhalation of decomposition products in a fire, symptoms may be delayed.<br>The exposed person may need to be kept under medical surveillance for 48 hours.   |
| Specific treatments           | : No specific treatment.   |
| Protection of first-aiders    | : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |

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### Section 4. First aid measures

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

| -  | -   |
|--|---|
| Extinguishing media                            |   |
| Suitable extinguishing media                   | : Use an extinguishing agent suitable for the surrounding fire.   |
| Unsuitable extinguishing media                 | : None known.   |
| Specific hazards arising from the chemical     | : In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| Hazardous thermal decomposition products       | : Decomposition products may include the following materials:<br>carbon oxides<br>nitrogen oxides<br>sulfur oxides<br>metal oxide/oxides  |
| Special protective actions for fire-fighters   | <ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident if<br/>there is a fire. No action shall be taken involving any personal risk or without suitable<br/>training.</li> </ul>   |
| Special protective equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.   |

### Section 6. Accidental release measures

| Personal precautions, protect  | tiv | e equipment and emergency procedures   |
|--------------------------------|-----|--|
| For non-emergency<br>personnel | :   | No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist.<br>Provide adequate ventilation. Wear appropriate respirator when ventilation is<br>inadequate. Put on appropriate personal protective equipment. |
| For emergency responders       | :   | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".  |
| Environmental precautions      | :   | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).  |

Methods and materials for containment and cleaning up

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### Section 6. Accidental release measures

| Small spill | : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.   |
|-------------|---|
| Large spill | : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |

### Section 7. Handling and storage

#### Precautions for safe handling

| Protective measures  | : Put on appropriate personal protective equipment (see Section 8). Avoid exposure -<br>obtain special instructions before use. Avoid exposure during pregnancy. Do not<br>handle until all safety precautions have been read and understood. Do not get in eyes<br>or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with<br>adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep<br>in the original container or an approved alternative made from a compatible material,<br>kept tightly closed when not in use. Empty containers retain product residue and can be<br>hazardous. Do not reuse container. |
|--|--|
| Special precautions  | : Keep away from combustible materials. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.  |
| Advice on general<br>occupational hygiene                          | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.  |
| Conditions for safe storage,<br>including any<br>incompatibilities | : Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.   |

### Section 8. Exposure controls/personal protection

Control parameters

**Occupational exposure limits** 

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### Section 8. Exposure controls/personal protection

| Ingredient name   | Exposure limits  |
|---|--|
| manganese dioxide   | ACGIH TLV (United States, 3/2018).                                 |
| 0   | TWA: 0.1 mg/m <sup>3</sup> , (as Mn) 8 hours. Form:                |
|   | Inhalable fraction   |
|   | TWA: 0.02 mg/m <sup>3</sup> , (as Mn) 8 hours. Form:               |
|   | Respirable fraction  |
|   | OSHA PEL (United States, 5/2018).                                  |
|   | CEIL: 5 mg/m <sup>3</sup> , (as Mn)                                |
| erphenyl, hydrogenated  | ACGIH TLV (United States, 3/2018).                                 |
|   | TWA: 4.9 mg/m <sup>3</sup> 8 hours.                                |
|   | TWA: 0.5 ppm 8 hours.  |
| Zeolites  | ACGIH TLV (United States, 3/2018).                                 |
|   | TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable                 |
|   | fraction   |
| Polyphenyls, quater- and higher, partially hydrogenated           | None.  |
| Falc, not containing asbestiform fibres                           | ACGIH TLV (United States, 3/2018).                                 |
|   | TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable                 |
|   | OSHA PEL Z3 (United States).                                       |
|   | TWA: 2 mg/m <sup>3</sup>   |
| arbon black, respirable powder                                    | ACGIH TLV (United States, 3/2018).                                 |
|   | TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Inhalable                  |
|   | fraction   |
|   | OSHA PEL (United States, 5/2018).                                  |
|   | TWA: 3.5 mg/m <sup>3</sup> 8 hours.                                |
| nagnesium carbonate   | OSHA PEL (United States, 5/2018).                                  |
|   | TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable                 |
|   | fraction   |
|   | TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust                |
| erphenyl  | ACGIH TLV (United States, 3/2018).                                 |
| erphenyi  | C: 5 mg/m <sup>3</sup>   |
|   |  |
|   | C: 0.53 ppm  |
|   | OSHA PEL (United States, 5/2018).                                  |
|   | CEIL: 9 mg/m <sup>3</sup>  |
| 1.2 diphonylayopiding   | CEIL: 1 ppm  |
| 1,3-diphenylguanidine   | None.  |
| Key to abbreviatio  | ns   |
| A = Acceptable Maximum Peak                                       | S = Potential skin absorption                                      |
| CGIH = American Conference of Governmental Industrial Hygienists. | SR = Respiratory sensitization                                     |
| C = Ceiling Limit   | SS = Skin sensitization<br>STEL = Short term Exposure limit values |
| F = Fume<br>PEL = Internal Permissible Exposure Limit             | STEL = Short term Exposure limit values<br>TD = Total dust         |
| SHA = Occupational Safety and Health Administration.              | TLV = Threshold Limit Value  |
|   |  |

= Respirable R

Ζ = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

Consult local authorities for acceptable exposure limits.

procedures

**Recommended monitoring** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

TWA

= Time Weighted Average

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### Section 8. Exposure controls/personal protection

| Appropriate engineering controls              | : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.  |
|---|--|
| Environmental exposure controls               | : Emissions from ventilation or work process equipment should be checked to ensure<br>they comply with the requirements of environmental protection legislation. In some<br>cases, fume scrubbers, filters or engineering modifications to the process equipment<br>will be necessary to reduce emissions to acceptable levels.  |
| Individual protection measu                   | ires   |
| Hygiene measures                              | : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.  |
| Eye/face protection<br><u>Skin protection</u> | : Safety glasses with side shields.  |
| Hand protection                               | : Chemical-resistant, impervious gloves complying with an approved standard should be<br>worn at all times when handling chemical products if a risk assessment indicates this is<br>necessary. Considering the parameters specified by the glove manufacturer, check<br>during use that the gloves are still retaining their protective properties. It should be<br>noted that the time to breakthrough for any glove material may be different for different<br>glove manufacturers. In the case of mixtures, consisting of several substances, the<br>protection time of the gloves cannot be accurately estimated. |
| Gloves  | : For prolonged or repeated handling, use the following type of gloves:  |
|   | Recommended: nitrile rubber, PVC, natural rubber (latex)   |
| Body protection                               | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  |
| Other skin protection                         | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  |
| Respiratory protection                        | : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.   |

### Section 9. Physical and chemical properties

| <u>Appearance</u> |                  |
|-------------------|------------------|
| Physical state    | : Liquid.        |
| Color             | : Black.         |
| Odor              | : Not available. |
| Odor threshold    | : Not available. |
| рН                | : Not available. |
| Melting point     | : Not available. |

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### Section 9. Physical and chemical properties

| _  |   |  |
|--|---|--|
| Boiling point                                | 1 | 360°C (680°F)  |
| Flash point                                  | 1 | Closed cup: Not applicable.                                  |
| Material supports combustion.                | : | Yes.   |
| Auto-ignition temperature                    | 1 | Not available.   |
| Decomposition temperature                    | 1 | Not available.   |
| Flammability (solid, gas)                    | 1 | Not available.   |
| Lower and upper explosive (flammable) limits | : | Not available.   |
| Evaporation rate                             | 1 | Not available.   |
| Vapor pressure                               | 1 | Not available.   |
| Vapor density                                | 1 | Not available.   |
| Relative density                             | 1 | 1.76   |
| Density(lbs / gal)                           | 1 | 14.69  |
| Solubility                                   | 1 | Insoluble in the following materials: cold water.            |
| Partition coefficient: n-<br>octanol/water   | ; | Not available.   |
| Viscosity                                    | 1 | Kinematic (40°C (104°F)): >0.21 cm <sup>2</sup> /s (>21 cSt) |
| VOC  | 1 | 0  |
| % Solid. (w/w)                               | : | 100  |
|  |   |  |

### Section 10. Stability and reactivity

| <b>D</b> (1.14)                    |   |
|------------------------------------|---|
| Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients.  |
| Chemical stability                 | : The product is stable.  |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.   |
| Conditions to avoid                | : When exposed to high temperatures may produce hazardous decomposition products.<br>Refer to protective measures listed in sections 7 and 8. |
| Incompatible materials             | : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.              |
| Hazardous decomposition products   | : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.                     |

### Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name            | Result                |  |                 | Species            | Dose         | Exposure |
|------------------------------------|-----------------------|--|-----------------|--------------------|--------------|----------|
| manganese dioxide                  | LD50 Oral             |  |                 | Rat                | 3478 mg/kg   | -        |
| Terphenyl, hydrogenated            | LD50 Oral             |  |                 | Rat                | 17500 mg/kg  | -        |
| Zeolites                           | LD50 Oral             |  |                 | Rat                | >5 g/kg      | -        |
| carbon black, respirable<br>powder | LD50 Derr             | nal  |                 | Rabbit             | >3 g/kg      | -        |
|                                    | LD50 Oral             |  |                 | Rat                | >15400 mg/kg | -        |
| magnesium carbonate                | LD50 Oral             |  |                 | Rat                | 8000 mg/kg   | -        |
| terphenyl                          | LD50 Oral             |  |                 | Rat - Female       | 2304 mg/kg   | -        |
| 1,3-diphenylguanidine              | LD50 Oral             |  |                 | Rat                | 323 mg/kg    | -        |
| Conclusion/Summary                 | : There are           | e no data a  | vailable on th  | ne mixture itself. |              |          |
| rritation/Corrosion                |                       |  |                 |                    |              |          |
| Conclusion/Summary                 |                       |  |                 |                    |              |          |
| Skin                               | : There are           | e no data a  | vailable on th  | ne mixture itself. |              |          |
| Eyes                               | : There are           | e no data a  | vailable on th  | ne mixture itself. |              |          |
| Respiratory                        | : There are           | e no data a  | vailable on th  | ne mixture itself. |              |          |
| Sensitization                      |                       |  |                 |                    |              |          |
| Conclusion/Summary                 |                       |  |                 |                    |              |          |
| Skin                               | : There are           | e no data a  | vailable on th  | ne mixture itself. |              |          |
| Respiratory                        | : There are           | : There are no data available on the mixture itself. |                 |                    |              |          |
| <u>Mutagenicity</u>                |                       |  |                 |                    |              |          |
| Conclusion/Summary                 | : There are           | e no data a  | vailable on th  | ne mixture itself. |              |          |
| Carcinogenicity                    |                       |  |                 |                    |              |          |
| Conclusion/Summary                 | : There are           | e no data a  | vailable on th  | ne mixture itself. |              |          |
| <b>Classification</b>              |                       |  |                 |                    |              |          |
| Product/ingredient name            | OSHA                  | IARC   | NTP             |                    |              |          |
| Zeolites                           | -                     | 3  | -               |                    |              |          |
| carbon black, respirable powder    | -                     | 2B   | -               |                    |              |          |
| Carcinogen Classification          | n code:               | 1  | 1               |                    |              |          |
| IARC: 1, 2A, 2B, 3                 | , 4<br>e a human carc | inogen; Rea  | sonably anticip | ated to be a huma  | n carcinogen |          |
| Reproductive toxicity              |                       |  |                 |                    |              |          |
| Conclusion/Summary                 | : There are           |  |                 |                    |              |          |

#### **Teratogenicity**

**Conclusion/Summary** : There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

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### Section 11. Toxicological information

| Name                                     | Category   |
|--|------------|
| Talc , not containing asbestiform fibres | Category 3 |
| 1,3-diphenylguanidine                    | Category 3 |

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

| Name              | Category   |
|-------------------|------------|
| manganese dioxide | Category 2 |

Target organs

: Contains material which causes damage to the following organs: lungs, skin, central nervous system (CNS).

Contains material which may cause damage to the following organs: blood, kidneys, the nervous system, liver, spleen, lymphatic system, cardiovascular system, upper respiratory tract, bone marrow, eye, lens or cornea.

#### Aspiration hazard

Not available.

#### Information on the likely routes of exposure

#### Potential acute health effects

| r oteritiar adate ricultir crico |  |
|----------------------------------|--|
| Eye contact                      | : No known significant effects or critical hazards.  |
| Inhalation                       | : Harmful if inhaled.  |
| Skin contact                     | : Defatting to the skin. May cause skin dryness and irritation.  |
| Ingestion                        | : Harmful if swallowed.  |
| Over-exposure signs/sympt        | <u>oms</u>   |
| Eye contact                      | : No specific data.  |
| Inhalation                       | : Adverse symptoms may include the following:<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations  |
| Skin contact                     | : Adverse symptoms may include the following:<br>irritation<br>dryness<br>cracking<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations   |
| Ingestion                        | : Adverse symptoms may include the following:<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations  |
| Delayed and immediate effect     | ts and also chronic effects from short and long term exposure  |
| Conclusion/Summary               | : There are no data available on the mixture itself. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. |
| <u>Short term exposure</u>       |  |

### Section 11. Toxicological information

|                                | •   |  |  |
|--------------------------------|---|--|--|
| Potential immediate effects    | : There are no data available on the mixture itself.  |  |  |
| Potential delayed effects      | : There are no data available on the mixture itself.  |  |  |
| <u>Long term exposure</u>      |   |  |  |
| Potential immediate<br>effects | : There are no data available on the mixture itself.  |  |  |
| Potential delayed effects      | : There are no data available on the mixture itself.  |  |  |
| Potential chronic health eff   | <u>ects</u>   |  |  |
| General                        | : May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. |  |  |
| Carcinogenicity                | Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.  |  |  |
| Mutagenicity                   | No known significant effects or critical hazards.   |  |  |
| Teratogenicity                 | No known significant effects or critical hazards.   |  |  |
| Developmental effects          | : No known significant effects or critical hazards.   |  |  |
| Fertility effects              | : Suspected of damaging fertility.  |  |  |
| Numerical measures of toxi     | <u>city</u>   |  |  |
| Acute toxicity estimates       |   |  |  |
| Route                          | ATE value   |  |  |
| Øral                           | 1046.9 mg/kg  |  |  |

| Øral                         | 1046.9 mg/kg |
|------------------------------|--------------|
| Inhalation (gases)           | 5011.7 ppm   |
| Inhalation (vapors)          | 12.25 mg/l   |
| Inhalation (dusts and mists) | 1.671 mg/l   |
|                              |              |

### Section 12. Ecological information

#### **Toxicity**

| Product/ingredient name | Result | Species            | Exposure             |
|-------------------------|--------|--------------------|----------------------|
|                         | ···· 5 | Daphnia<br>Daphnia | 48 hours<br>72 hours |

#### Persistence and degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| terphenyl               | -                 | -          | Not readily      |

#### **Bioaccumulative potential**

| Product/ingredient name | LogPow | BCF   | Potential |
|-------------------------|--------|-------|-----------|
| 7,3-diphenylguanidine   | 1.69   | 19.95 | low       |

#### Mobility in soil

| Soil/water partition | : Not available. |
|----------------------|------------------|
| coefficient (Koc)    |                  |

United States Page: 11/14

### Section 12. Ecological information

### Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

| 14. | Transport | information |
|-----|-----------|-------------|
|-----|-----------|-------------|

|                                | DOT             | IMDG  | ΙΑΤΑ  |
|--------------------------------|-----------------|---|---|
| UN number                      | Not regulated.  | UN3082  | UN3082  |
| UN proper shipping<br>name     | -               | ENVIRONMENTALLY<br>HAZARDOUS SUBSTANCE,<br>LIQUID, N.O.S.<br>Ferphenyl, hydrogenated,<br>terphenyl) | ENVIRONMENTALLY<br>HAZARDOUS SUBSTANCE,<br>LIQUID, N.O.S.<br>Ferphenyl, hydrogenated,<br>terphenyl) |
| Transport hazard class<br>(es) | -               | 9   | 9   |
| Packing group                  | -               | Ш   | 111   |
| Environmental hazards          | No.             | Yes.  | Yes.  |
| Marine pollutant substances    | Not applicable. | rephenyl, hydrogenated, terphenyl)  | Not applicable.   |

#### **Additional information**

| DOT  | : None identified.  |
|------|---|
| IMDG | This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. |
| ΙΑΤΑ | This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.      |

# **Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Product name PS 890 C 80 Part A

### Section 15. Regulatory information

#### United States

United States inventory (TSCA 8b) : All components are listed or exempted.

#### SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

#### SARA 311/312

| Classification | : ACUTE TOXICITY (oral) - Category 4                                    |
|----------------|---|
|                | ACUTE TOXICITY (inhalation) - Category 4                                |
|                | CARCINOGENICITY - Category 2  |
|                | TOXIC TO REPRODUCTION (Fertility) - Category 2                          |
|                | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (brain) - Category 2 |
|                | HNOC - Avoid contact with organic materials.                            |
|                | HNOC - Defatting irritant   |

#### **Composition/information on ingredients**

| Name  | %           | Classification  |
|---|-------------|---|
| manganese dioxide                                       | ≥20 - ≤50   | ACUTE TOXICITY (oral) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED<br>EXPOSURE) - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED<br>EXPOSURE) (brain) (inhalation) - Category 2<br>HNOC - Avoid contact with organic materials. |
| Polyphenyls, quater- and higher, partially hydrogenated | ≥5.0 - ≤10  | HNOC - Defatting irritant   |
| Talc , not containing asbestiform fibres                | ≥1.0 - ≤5.0 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)<br>(Respiratory tract irritation) - Category 3   |
| carbon black, respirable powder                         | ≥1.0 - ≤5.0 | COMBUSTIBLE DUSTS<br>CARCINOGENICITY - Category 2   |
| 1,3-diphenylguanidine                                   | ≥1.0 - ≤4.8 | COMBUSTIBLE DUSTS<br>ACUTE TOXICITY (oral) - Category 4<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>TOXIC TO REPRODUCTION (Fertility) - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)<br>(Respiratory tract irritation) - Category 3                    |

#### <u>SARA 313</u>

#### Chemical name

: manganese dioxide

<u>CAS number</u> 1313-13-9 Concentration 30 - 60

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### California Prop. 65

**Supplier notification** 

**WARNING**: Cancer - www.P65Warnings.ca.gov.

Product name PS 890 C 80 Part A

### Section 16. Other information

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

Health : 3 \* Flammability : 0 Physical hazards : 1

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

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

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

| Date of previous issue: 6/28/2018Organization that prepared<br>the MSDS: EHSKey to abbreviations: ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Intermediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973<br>as modified by the Protocol of 1978. ("Marpol" = marine pollution) | Health : 3 Flammabilit   | ity: 0 Instability: 1   |
|--|--------------------------|---|
| the MSDS         Key to abbreviations       : ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Internediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973   | Date of previous issue : | 6/28/2018   |
| BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Intermediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973  |                          | EHS   |
| UN = United Nations  | Key to abbreviations :   | BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = International Air Transport Association<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973<br>as modified by the Protocol of 1978. ("Marpol" = marine pollution) |

#### Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

## **SAFETY DATA SHEET**



Date of issue/Date of revision 5 March 2019 Version 6

| Section 1. Identification        |  |  |
|----------------------------------|--|--|
| Product name                     | : PS 890 C 80 Part B   |  |
| Product code                     | : PS 890 C 80 Part B   |  |
| Other means of identification    | : Not available.   |  |
| Product type                     | : Liquid.  |  |
| Relevant identified uses of      | f the substance or mixture and uses advised against  |  |
| Product use                      | : Industrial applications.   |  |
| Use of the substance/<br>mixture | : Sealants   |  |
| Uses advised against             | : Not applicable.  |  |
| Manufacturer                     | : PPG Aerospace PRC-DeSoto<br>12780 San Fernando Road<br>Sylmar, CA 91342<br>Phone: 818 362 6711 |  |
| Emergency telephone<br>number    | : (412) 434-4515 (U.S.)<br>(514) 645-1320 (Canada)<br>01-800-00-21-400 (Mexico)                  |  |

### Section 2. Hazards identification

| OSHA/HCS status                            | : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  |
|--|--|
| Classification of the substance or mixture | ■ FLAMMABLE LIQUIDS - Category 3<br>CARCINOGENICITY - Category 2<br>TOXIC TO REPRODUCTION (Unborn child) - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2   |
|  | Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 6.3% (Oral),<br>65.7% (Dermal), 80.3% (Inhalation)  |
|  | This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). |
| GHS label elements                         |  |

**United States** 

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Product name PS 890 C 80 Part B

### Section 2. Hazards identification

| Hazard pictograms                   |   |
|-------------------------------------|---|
| Signal word                         | : Warning   |
| Hazard statements                   | <ul> <li>Fammable liquid and vapor.</li> <li>Suspected of damaging the unborn child.</li> <li>Suspected of causing cancer.</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> </ul>   |
| Precautionary statement             | <u>s</u>  |
| Prevention                          | : Do not handle until all safety precautions have<br>been read and understood. Wear protective gloves. Wear eye or face protection.<br>Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and<br>other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting<br>and all material-handling equipment. Use only non-sparking tools. Take precautionary<br>measures against static discharge. Keep container tightly closed. Do not breathe vapor.   |
| Response                            | : Set medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  |
| Storage                             | : Store locked up. Store in a well-ventilated place. Keep cool.   |
| Disposal                            | <ul> <li>Dispose of contents and container in accordance with all local, regional, national and<br/>international regulations.</li> </ul>   |
| Supplemental label<br>elements      | : Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated. |
| Hazards not otherwise<br>classified | : <b>P</b> rolonged or repeated contact may dry skin and cause irritation.  |

### Section 3. Composition/information on ingredients

| Substance/mixture | : Mixture            |   |
|-------------------|----------------------|---|
| Product name      | : PS 890 C 80 Part E | } |

| Ingredient name                              | %           | CAS number |
|--|-------------|------------|
| calcium carbonate                            | ≥20 - ≤50   | 471-34-1   |
| Limestone                                    | ≥5.0 - ≤10  | 1317-65-3  |
| toluene                                      | ≥5.0 - <10  | 108-88-3   |
| titanium dioxide                             | ≥1.0 - ≤5.0 | 13463-67-7 |
| 2-(3,4-epoxycyclohexyl)ethyltrimethoxysilane | <1.0        | 3388-04-3  |

SUB codes represent substances without registered CAS Numbers.

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

Product name PS 890 C 80 Part B

### Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### Description of necessary first aid measures

| Eye contact  | <ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids<br/>apart for at least 10 minutes and seek immediate medical advice.</li> </ul>  |
|--------------|--|
| Inhalation   | <ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is<br/>irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained<br/>personnel.</li> </ul> |
| Skin contact | : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water<br>or use recognized skin cleanser. Do NOT use solvents or thinners.  |
| Ingestion    | <ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep<br/>person warm and at rest. Do NOT induce vomiting.</li> </ul>  |

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

| Potential acute health effe | <u>cts</u>  |
|-----------------------------|---|
| Eye contact                 | : No known significant effects or critical hazards.   |
| Inhalation                  | : No known significant effects or critical hazards.   |
| Skin contact                | : Defatting to the skin. May cause skin dryness and irritation.   |
| Ingestion                   | : No known significant effects or critical hazards.   |
| Over-exposure signs/sym     | <u>otoms</u>  |
| Eye contact                 | : No specific data.   |
| Inhalation                  | : Adverse symptoms may include the following:<br>reduced fetal weight<br>increase in fetal deaths   |
|                             | skeletal malformations  |
| Skin contact                | : Koverse symptoms may include the following:<br>irritation<br>dryness  |
|                             | cracking<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations  |
| Ingestion                   | : Adverse symptoms may include the following:<br>reduced fetal weight<br>increase in fetal deaths<br>skeletal malformations                       |
| Indication of immediate me  | dical attention and special treatment needed, if necessary  |
| Notes to physician          | <ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large<br/>quantities have been ingested or inhaled.</li> </ul> |
| Specific treatments         | No specific treatment.  |
|                             | United States Page: 3/14  |

Product name PS 890 C 80 Part B

### Section 4. First aid measures

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

| Extinguishing media                            |  |
|--|--|
| Suitable extinguishing media                   | : Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.   |
| Unsuitable extinguishing media                 | : Do not use water jet.  |
| Specific hazards arising from the chemical     | : Fammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| Hazardous thermal decomposition products       | : Decomposition products may include the following materials:<br>carbon oxides<br>halogenated compounds<br>metal oxide/oxides<br>Formaldehyde.   |
| Special protective actions for fire-fighters   | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.   |
| Special protective equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.  |

### Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

| For non-emergency<br>personnel | : | No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilled material. Shut off all ignition sources.<br>No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide<br>adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put<br>on appropriate personal protective equipment. |
|--------------------------------|---|---|
| For emergency responders       | : | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".   |
| Environmental precautions      | : | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).   |

#### Methods and materials for containment and cleaning up

Product name PS 890 C 80 Part B

### Section 6. Accidental release measures

| Small spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.   |
|-------------|--|
| Large spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |

### Section 7. Handling and storage

| Precautions for safe handling                                      |   |
|--|---|
| Protective measures  | : Put on appropriate personal protective equipment (see Section 8). Avoid exposure -<br>obtain special instructions before use. Avoid exposure during pregnancy. Do not<br>handle until all safety precautions have been read and understood. Do not get in eyes<br>or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with<br>adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do<br>not enter storage areas and confined spaces unless adequately ventilated. Keep in the<br>original container or an approved alternative made from a compatible material, kept<br>tightly closed when not in use. Store and use away from heat, sparks, open flame or<br>any other ignition source. Use explosion-proof electrical (ventilating, lighting and<br>material handling) equipment. Use only non-sparking tools. Take precautionary<br>measures against electrostatic discharges. Empty containers retain product residue<br>and can be hazardous. Do not reuse container. |
| Special precautions  | : If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.   |
| Advice on general<br>occupational hygiene                          | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.   |
| Conditions for safe storage,<br>including any<br>incompatibilities | : Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.   |

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

| Ingredient name                              | Exposure limits                                     |
|--|---|
| alcium carbonate                             | ACGIH TLV (United States).                          |
|  | TWA: 3 mg/m <sup>3</sup> Form: Respirable           |
|  | TWA: 10 mg/m <sup>3</sup> Form: Total dust          |
|  | OSHA PEL (United States).                           |
|  | TWA: 5 mg/m <sup>3</sup> Form: Respirable           |
|  | TWA: 15 mg/m <sup>3</sup>                           |
| Limestone                                    | OSHA PEL (United States, 5/2018).                   |
|  | TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable  |
|  | fraction  |
|  | TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust |
| toluene                                      | OSHA PEL Z2 (United States, 2/2013).                |
|  | AMP: 500 ppm 10 minutes.                            |
|  | CEIL: 300 ppm                                       |
|  | TWA: 200 ppm 8 hours.                               |
|  | ACGIH TLV (United States, 3/2018).                  |
|  | TWA: 20 ppm 8 hours.                                |
| titanium dioxide                             | OSHA PEL (United States, 5/2018).                   |
|  | TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust |
|  | ACGIH TLV (United States, 3/2018).                  |
|  | TWA: 10 mg/m <sup>3</sup> 8 hours.                  |
| 2-(3,4-epoxycyclohexyl)ethyltrimethoxysilane | None.   |

| Rey to abbreviations   |   |  |
|--|---|--|
| <ul> <li>Acceptable Maximum Peak</li> </ul>                                    | S   | <ul> <li>Potential skin absorption</li> </ul>  |
| <ul> <li>American Conference of Governmental Industrial Hygienists.</li> </ul> | SR  | <ul> <li>Respiratory sensitization</li> </ul>  |
| = Ceiling Limit  | SS  | <ul> <li>Skin sensitization</li> </ul>   |
| = Fume   | STEL  | <ul> <li>Short term Exposure limit values</li> </ul>   |
| <ul> <li>Internal Permissible Exposure Limit</li> </ul>                        | TD  | = Total dust   |
| <ul> <li>Occupational Safety and Health Administration.</li> </ul>             | TLV   | = Threshold Limit Value  |
| = Respirable   | TWA   | = Time Weighted Average  |
| = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances             |   |  |
|  | <ul> <li>Acceptable Maximum Peak</li> <li>American Conference of Governmental Industrial Hygienists.</li> <li>Ceiling Limit</li> <li>Fume</li> <li>Internal Permissible Exposure Limit</li> <li>Occupational Safety and Health Administration.</li> <li>Respirable</li> </ul> | = Acceptable Maximum PeakS= American Conference of Governmental Industrial Hygienists.SR= Ceiling LimitSS= FumeSTEL= Internal Permissible Exposure LimitTD= Occupational Safety and Health Administration.TLV= RespirableTWA |

### Consult local authorities for acceptable exposure limits.

| Recommended monitoring procedures   | • | If this product contains ingredients with exposure limits, personal, workplace<br>atmosphere or biological monitoring may be required to determine the effectiveness of<br>the ventilation or other control measures and/or the necessity to use respiratory<br>protective equipment. Reference should be made to appropriate monitoring standards.<br>Reference to national guidance documents for methods for the determination of<br>hazardous substances will also be required. |
|-------------------------------------|---|---|
| Appropriate engineering<br>controls | : | Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.   |
| Environmental exposure controls     | : | Emissions from ventilation or work process equipment should be checked to ensure<br>they comply with the requirements of environmental protection legislation. In some<br>cases, fume scrubbers, filters or engineering modifications to the process equipment<br>will be necessary to reduce emissions to acceptable levels.   |

Product name PS 890 C 80 Part B

### Section 8. Exposure controls/personal protection

### Individual protection measures

| Hygiene measures       | : Wash hands, forearms and face thoroughly after handling chemical products, before<br>eating, smoking and using the lavatory and at the end of the working period.<br>Appropriate techniques should be used to remove potentially contaminated clothing.<br>Wash contaminated clothing before reusing. Ensure that eyewash stations and safety<br>showers are close to the workstation location.  |
|------------------------|--|
| Eye/face protection    | : Safety glasses with side shields.  |
| Skin protection        |  |
| Hand protection        | : Chemical-resistant, impervious gloves complying with an approved standard should be<br>worn at all times when handling chemical products if a risk assessment indicates this is<br>necessary. Considering the parameters specified by the glove manufacturer, check<br>during use that the gloves are still retaining their protective properties. It should be<br>noted that the time to breakthrough for any glove material may be different for different<br>glove manufacturers. In the case of mixtures, consisting of several substances, the<br>protection time of the gloves cannot be accurately estimated. |
| Gloves                 | : For prolonged or repeated handling, use the following type of gloves:  |
|                        | Recommended: natural rubber (latex)  |
| Body protection        | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.  |
| Other skin protection  | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  |
| Respiratory protection | : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.   |

### Section 9. Physical and chemical properties

| Appearance                    |                              |
|-------------------------------|------------------------------|
| Physical state                | : Liquid.                    |
| Color                         | : Øff-white.                 |
| Odor                          | : Not available.             |
| Odor threshold                | : Not available.             |
| рН                            | : Not available.             |
| Melting point                 | : Not available.             |
| Boiling point                 | : >37.78°C (>100°F)          |
| Flash point                   | : Closed cup: 27.78°C (82°F) |
| Material supports combustion. | : Yes.                       |
| Auto-ignition temperature     | : Not available.             |
| Decomposition temperature     | : Not available.             |
|                               |                              |

United States Page: 7/14

Product name PS 890 C 80 Part B

### Section 9. Physical and chemical properties

| Flammability (solid, gas)                    | : Not available.                                    |
|--|---|
| Lower and upper explosive (flammable) limits | : Lower: 1%   |
| Evaporation rate                             | : Not available.                                    |
| Vapor pressure                               | : Not available.                                    |
| Vapor density                                | : Not available.                                    |
| Relative density                             | : 1.56  |
| Density ( lbs / gal )                        | : 1/3.02  |
| Solubility                                   | : Insoluble in the following materials: cold water. |
| Partition coefficient: n-<br>octanol/water   | : Not available.                                    |
| Viscosity                                    | : Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)   |
| VOC  | : 😰 g/l   |

### Section 10. Stability and reactivity

| Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients.  |
|------------------------------------|---|
| Chemical stability                 | : The product is stable.  |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.   |
| Conditions to avoid                | : When exposed to high temperatures may produce hazardous decomposition products.<br>Refer to protective measures listed in sections 7 and 8. |
| Incompatible materials             | : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.              |
| Hazardous decomposition products   | : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.                     |

### Section 11. Toxicological information

#### Information on toxicological effects

| <b>Acute</b> | toxi | icity |
|--------------|------|-------|
|              |      |       |

| Product/ingredient name | Result                          | Species | Dose                | Exposure   |
|-------------------------|---------------------------------|---------|---------------------|------------|
| alcium carbonate        | LD50 Dermal                     | Rat     | >2000 mg/kg         | -          |
|                         | LD50 Oral                       | Rat     | 6450 mg/kg          | -          |
| Limestone               | LD50 Oral                       | Rat     | 6450 mg/kg          | -          |
| toluene                 | LC50 Inhalation Vapor           | Rat     | 49 g/m <sup>3</sup> | 4 hours    |
|                         | LD50 Dermal                     | Rabbit  | 8.39 g/kg           | -          |
|                         | LD50 Oral                       | Rat     | 5580 mg/kg          | -          |
| titanium dioxide        | LC50 Inhalation Dusts and mists | Rat     | >6.82 mg/l          | 4 hours    |
|                         | LD50 Dermal                     | Rabbit  | >5000 mg/kg         | -          |
|                         | LD50 Oral                       | Rat     | >5000 mg/kg         | -          |
|                         |                                 |         | United States       | Page: 8/14 |

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#### 11 Toxicological inf ~ 41 ....

| 2-(3,4-epoxycyclohexyl)<br>ethyltrimethoxysilane | LD50 Dern             | nal             | R                  | abbit           | 6.7 g/kg         | -          |
|--|-----------------------|-----------------|--------------------|-----------------|------------------|------------|
| - •  | LD50 Oral             |                 | R                  | at              | 13 g/kg          | -          |
| Conclusion/Summary                               | : There are           | no data a       | vailable on the    | mixture itself. |                  |            |
| Irritation/Corrosion                             |                       |                 |                    |                 |                  |            |
| Conclusion/Summary                               |                       |                 |                    |                 |                  |            |
| Skin   |                       |                 | vailable on the    |                 |                  |            |
| Eyes   |                       |                 | vailable on the    |                 |                  |            |
| Respiratory                                      | : There are           | e no data av    | vailable on the    | mixture itself. |                  |            |
| Sensitization                                    |                       |                 |                    |                 |                  |            |
| <u>Conclusion/Summary</u><br>Skin                | . Thore are           | no doto o       | vailable on the    | mixture iteelf  |                  |            |
|  |                       |                 |                    |                 |                  |            |
| Respiratory                                      | : There are           | no data a       | vailable on the    | mixture itself. |                  |            |
| Mutagenicity                                     | . There are           | no dete -       | voilable en the    | minture iteelf  |                  |            |
| Conclusion/Summary                               | : i nere are          | ino data a      | vailable on the    | mixture itself. |                  |            |
| Carcinogenicity                                  | <b>T</b> I            |                 |                    |                 |                  |            |
| Conclusion/Summary                               | : There are           | e no data av    | vailable on the    | mixture itseif. |                  |            |
| <u>Classification</u>                            |                       |                 | 1                  |                 |                  |            |
| Product/ingredient name                          | OSHA                  | IARC            | NTP                |                 |                  |            |
| toluene  | -                     | 3               | -                  |                 |                  |            |
| titanium dioxide                                 |                       | 2B              | -                  |                 |                  |            |
| Carcinogen Classification                        |                       |                 |                    |                 |                  |            |
| IARC: 1, 2A, 2B, 3<br>NTP: Known to b            | , 4<br>e a human carc | inogen; Reas    | sonably anticipate | d to be a human | carcinogen       |            |
| OSHA: +  |                       |                 | -                  |                 |                  |            |
| Not listed/not reg                               | uidleu                |                 |                    |                 |                  |            |
| Reproductive toxicity                            |                       |                 |                    |                 |                  |            |
| Conclusion/Summary                               | : There are           | no data av      | ailable on the n   | nixture itself. |                  |            |
| <b>Feratogenicity</b>                            |                       |                 |                    |                 |                  |            |
| Conclusion/Summary                               |                       |                 | ailable on the n   | nixture itself. |                  |            |
| Specific target organ toxicity                   | / (single exp         | <u>osure)</u>   |                    |                 |                  | <u> </u>   |
| Name   |                       |                 |                    |                 |                  | Category   |
| toluene  |                       |                 |                    |                 |                  | Category 3 |
| Specific target organ toxicity                   | / (repeated e         | <u>xposure)</u> |                    |                 |                  | <b>-</b>   |
| Name   |                       |                 |                    |                 |                  | Category   |
| toluene  |                       |                 |                    |                 |                  | Category 2 |
|  |                       |                 |                    |                 |                  | 1          |
| Target organs                                    | · Pontaina            | notorial        | high acuses day    | and to the f-   | lowing organs: b | ain        |

#### **Aspiration hazard**

| United States |
|---------------|
|---------------|

Product name PS 890 C 80 Part B

### Section 11. Toxicological information

| Name   | Result                         |  |  |  |
|--|--------------------------------|--|--|--|
| toluene                                      | ASPIRATION HAZARD - Category 1 |  |  |  |
| Information on the likely routes of exposure |                                |  |  |  |
| Potential acute health effects               |                                |  |  |  |

| Potential acute nealth effects |   |
|--------------------------------|---|
| Eye contact                    | : No known significant effects or critical hazards.   |
| Inhalation                     | : No known significant effects or critical hazards.   |
| Skin contact                   | : Defatting to the skin. May cause skin dryness and irritation.   |
| Ingestion                      | : No known significant effects or critical hazards.   |
| Over-exposure signs/sympto     | <u>ms</u>   |
| Eye contact                    | : No specific data.   |
| Inhalation                     | : Adverse symptoms may include the following:   |
|                                | reduced fetal weight  |
|                                | increase in fetal deaths  |
|                                | skeletal malformations  |
| Skin contact                   | Adverse symptoms may include the following:   |
|                                | irritation  |
|                                | dryness<br>cracking   |
|                                | reduced fetal weight  |
|                                | increase in fetal deaths  |
|                                | skeletal malformations  |
| Ingestion                      | : Adverse symptoms may include the following:   |
|                                | reduced fetal weight  |
|                                | increase in fetal deaths  |
|                                | skeletal malformations  |
| -                              | and also chronic effects from short and long term exposure  |
| Conclusion/Summary             | : There are no data available on the mixture itself. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/ or engineering controls (see Section 8). Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. |

Product name PS 890 C 80 Part B

### Section 11. Toxicological information

| <u>Short term exposure</u>                                   |  |
|--|--|
| Potential immediate<br>effects                               | : There are no data available on the mixture itself.   |
| Potential delayed effects                                    | : There are no data available on the mixture itself.   |
| <u>Long term exposure</u>                                    |  |
| Potential immediate<br>effects                               | : There are no data available on the mixture itself.   |
| Potential delayed effects                                    | : There are no data available on the mixture itself.   |
| Potential chronic health eff                                 | ects   |
| General<br>Carcinogenicity                                   | <ul> <li>May cause damage to organs through prolonged or repeated exposure. Prolonged or</li> <li>repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.</li> <li>Suspected of causing cancer. Risk of cancer depends on duration and level of</li> </ul> |
| Mutagenicity   | : Applysoner significant effects or critical hazards.  |
| Teratogenicity<br>Developmental effects<br>Fertility effects | <ul> <li>Suspected of damaging the unborn child.</li> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> </ul>  |

### Section 12. Ecological information

#### **Toxicity**

| Product/ingredient name | Result  | Species                 | Exposure             |
|-------------------------|---|-------------------------|----------------------|
| calcium carbonate       | Acute EC10 >14 mg/l<br>Acute LC50 >56000 mg/l | Algae<br>Fish           | 72 hours<br>96 hours |
| titanium dioxide        | Acute LC50 >100 mg/l Fresh water              | Daphnia - Daphnia magna | 48 hours             |

#### Persistence and degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| toluene                 | -                 | -          | Readily          |

#### **Bioaccumulative potential**

| Product/ingredient name | LogPow | BCF  | Potential |
|-------------------------|--------|------|-----------|
| toluene                 | 2.73   | 8.32 | low       |

<u>Mobility in soil</u>

Soil/water partition coefficient (Koc)

: Not available.

Product name PS 890 C 80 Part B

### Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

| 14. Transport information      |                 |                      |                 |  |
|--------------------------------|-----------------|----------------------|-----------------|--|
|                                | DOT             | IMDG                 | ΙΑΤΑ            |  |
| UN number                      | Not regulated.  | <mark>₩</mark> N1133 | <b>W</b> N1133  |  |
| UN proper shipping<br>name     | -               | A DHESIVES           | ADHESIVES       |  |
| Transport hazard class<br>(es) | -               | 3                    | 3               |  |
| Packing group                  | -               | M                    | W               |  |
| Environmental hazards          | No.             | No.                  | No.             |  |
| Marine pollutant<br>substances | Not applicable. | Not applicable.      | Not applicable. |  |
| Product RQ (lbs)               | 17645.9         | Not applicable.      | Not applicable. |  |
| RQ substances                  | (toluene)       | Not applicable.      | Not applicable. |  |

### 14. Transport information

#### Additional information

**DOT** : Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

**IMDG** : None identified.

IATA : None identified.

# Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Product name PS 890 C 80 Part B

### Section 15. Regulatory information

#### United States

United States inventory (TSCA 8b) : All components are listed or exempted.

#### SARA 302/304

SARA 304 RQ

: Not applicable.

#### **Composition/information on ingredients**

No products were found.

#### SARA 311/312

Classification

: FLAMMABLE LIQUIDS - Category 3 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 HNOC - Defatting irritant

#### **Composition/information on ingredients**

| Name   | %                   | Classification  |
|--|---------------------|---|
| <b>fo</b> luene  | ≥5.0 - <10          | FLAMMABLE LIQUIDS - Category 2<br>SKIN IRRITATION - Category 2<br>TOXIC TO REPRODUCTION (Unborn child) - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)<br>(Narcotic effects) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED<br>EXPOSURE) - Category 2<br>ASPIRATION HAZARD - Category 1<br>HNOC - Defatting irritant |
| titanium dioxide<br>2-(3,4-epoxycyclohexyl)<br>ethyltrimethoxysilane | ≥1.0 - ≤5.0<br><1.0 | CARCINOGENICITY - Category 2<br>SKIN SENSITIZATION - Category 1B<br>CARCINOGENICITY - Category 2<br>HNOC - Defatting irritant   |

#### <u>SARA 313</u>

#### Chemical name toluene

<u>CAS number</u> 108-88-3 Concentration 3 - 7

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### California Prop. 65

**Supplier notification** 

MARNING: Reproductive Harm - www.P65Warnings.ca.gov.

### Section 16. Other information

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

Health : 72 \* Flammability : 3 Physical hazards : 0

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

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### Section 16. Other information

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

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

| Health : 72 Flamma<br>Date of previous issue | ability : 3 Instability : 0<br>: 2/14/2019  |
|--|---|
| Organization that prepared the MSDS          | : EHS   |
| Key to abbreviations                         | <ul> <li>ATE = Acute Toxicity Estimate<br/>BCF = Bioconcentration Factor<br/>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br/>IATA = International Air Transport Association<br/>IBC = International Air Transport Association<br/>IBC = International Maritime Dangerous Goods<br/>LogPow = logarithm of the octanol/water partition coefficient<br/>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973<br/>as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br/>UN = United Nations</li> </ul> |

Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.