

# SAFETY DATA SHEET



Date of issue/Date of revision 24 September 2019

Version 16

## Section 1. Identification

**Product name** : Low VOC Gloss

**Product code** : MAP-LVG-1

**Other means of identification** : Not available.

**Product type** : Liquid.

### Relevant identified uses of the substance or mixture and uses advised against

**Product use** : Industrial applications.

**Use of the substance/ mixture** : Coating. Paints. Painting-related materials.

**Uses advised against** : Not applicable.

**Manufacturer** : PPG Industries, Inc.  
One PPG Place,  
Pittsburgh, PA 15272

**Emergency telephone number** : (412) 434-4515 (U.S.)  
(514) 645-1320 (Canada)  
01-800-00-21-400 or + 52 55 5559 1588 (Mexico)

**Technical Phone Number** : (740) 363-9610 (DELAWARE, OH) 8:00 a.m. - 5:00 p.m. EST

## 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 2  
SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2A  
CARCINOGENICITY - Category 1A  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys, liver) - Category 2  
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 99.5% (Oral), 100% (Dermal), 100% (Inhalation)

## Section 2. Hazards identification

This product contains TiO<sub>2</sub> which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO<sub>2</sub> is utilized as a raw material in a liquid coating formulation. In this case, the TiO<sub>2</sub> particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO<sub>2</sub> 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

#### Hazard pictograms



#### Signal word

: Danger

#### Hazard statements

: Highly flammable liquid and vapor.  
Causes serious eye irritation.  
Causes skin irritation.  
May cause cancer.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure. (kidneys, liver)

### Precautionary statements

#### Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash hands thoroughly 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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

#### Storage

: Store locked up. Store in a well-ventilated place. Keep cool.

#### Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

#### Supplemental label elements

: Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. 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. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

## Section 2. Hazards identification

**Hazards not otherwise classified** : Prolonged or repeated contact may dry skin and cause irritation.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture  
**Product name** : Low VOC Gloss

| Ingredient name  | %                      | CAS number |
|--|------------------------|------------|
| 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene         | $\geq 90$              | 98-56-6    |
| titanium dioxide   | $\geq 20 - \leq 50$    | 13463-67-7 |
| Talc, not containing asbestiform fibres                    | $\geq 10 - \leq 20$    | 14807-96-6 |
| diiron trioxide  | $\geq 10 - \leq 20$    | 1309-37-1  |
| Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-diphenyl- | $\geq 5.0 - \leq 10$   | 54660-00-3 |
| acetone  | $\geq 5.0 - \leq 10$   | 67-64-1    |
| carbon black, respirable powder                            | $\geq 1.0 - \leq 5.0$  | 1333-86-4  |
| heptan-2-one   | $\geq 1.0 - \leq 4.3$  | 110-43-0   |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol            | $\geq 1.0 - \leq 3.3$  | 25973-55-1 |
| 2-ethylhexyl acetate                                       | $\geq 1.0 - \leq 5.0$  | 103-09-3   |
| pentane-2,4-dione  | $\geq 0.10 - \leq 2.5$ | 123-54-6   |
| 2-butoxyethanol  | $\geq 0.10 - \leq 2.2$ | 111-76-2   |
| 2-methoxy-1-methylethyl acetate                            | $\geq 1.0 - \leq 5.0$  | 108-65-6   |
| crystalline silica, respirable powder (<10 microns)        | <1.0                   | 14808-60-7 |

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.

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

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

#### Potential acute health effects

## Section 4. First aid measures

- Eye contact** : Causes serious eye irritation.
- Inhalation** : May cause respiratory irritation.
- Skin contact** : Causes skin irritation. Defatting to the skin.
- Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking
- Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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** : Highly flammable 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. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. 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.

## Section 5. Fire-fighting measures

### Hazardous thermal decomposition products

- : Decomposition products may include the following materials:
- carbon oxides
  - nitrogen oxides
  - halogenated compounds
  - carbonyl halides
  - metal oxide/oxides

### 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 personnel

- : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is 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

#### 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 - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Special precautions** : Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. 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 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, including any incompatibilities** : Do not store above the following temperature: 35°C (95°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   |
|--|---|
| 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene | <b>IPEL (PPG).</b>  |
| titanium dioxide                                   | TWA: 25 ppm   |
|  | <b>OSHA PEL (United States, 5/2018).</b>                    |
|  | TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust         |
|  | <b>ACGIH TLV (United States, 3/2018).</b>                   |
| Talc , not containing asbestiform fibres           | TWA: 10 mg/m <sup>3</sup> 8 hours.                          |
|  | <b>ACGIH TLV (United States, 3/2018).</b>                   |
|  | TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable          |
|  | <b>OSHA PEL Z3 (United States).</b>                         |
| diiron trioxide                                    | TWA: 2 mg/m <sup>3</sup>                                    |
|  | <b>ACGIH TLV (United States, 3/2018).</b>                   |
|  | TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction |

## Section 8. Exposure controls/personal protection

Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-diphenyl-acetone

carbon black, respirable powder

heptan-2-one

2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol  
2-ethylhexyl acetate  
pentane-2,4-dione

2-butoxyethanol

2-methoxy-1-methylethyl acetate

crystalline silica, respirable powder (<10 microns)

**OSHA PEL (United States, 5/2018).**

TWA: 10 mg/m<sup>3</sup> 8 hours.

None.

**ACGIH TLV (United States, 3/2018).**

STEL: 500 ppm 15 minutes.

TWA: 250 ppm 8 hours.

**OSHA PEL (United States, 5/2018).**

TWA: 2400 mg/m<sup>3</sup> 8 hours.

TWA: 1000 ppm 8 hours.

**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.

**ACGIH TLV (United States, 3/2018).**

TWA: 233 mg/m<sup>3</sup> 8 hours.

TWA: 50 ppm 8 hours.

**OSHA PEL (United States, 5/2018).**

TWA: 465 mg/m<sup>3</sup> 8 hours.

TWA: 100 ppm 8 hours.

None.

None.

**ACGIH TLV (United States, 3/2018).**

**Absorbed through skin.**

TWA: 25 ppm 8 hours.

**ACGIH TLV (United States, 3/2018).**

TWA: 20 ppm 8 hours.

**OSHA PEL (United States, 5/2018).**

**Absorbed through skin.**

TWA: 240 mg/m<sup>3</sup> 8 hours.

TWA: 50 ppm 8 hours.

**IPEL (PPG, 10/2017). Absorbed through skin.**

TWA: 30 ppm

STEL: 90 ppm

**ACGIH TLV (United States, 3/2018).**

TWA: 0.025 mg/m<sup>3</sup> 8 hours. Form:

Respirable

**OSHA PEL Z3 (United States, 6/2016).**

TWA: 10 mg/m<sup>3</sup> / (%SiO<sub>2</sub>+2) 8 hours. Form:

Respirable

TWA: 250 mppcf / (%SiO<sub>2</sub>+5) 8 hours. Form:

Respirable

**OSHA PEL (United States, 5/2018).**

TWA: 50 µg/m<sup>3</sup> 8 hours. Form: Respirable

dust

### Key to abbreviations

A = Acceptable Maximum Peak  
ACGIH = American Conference of Governmental Industrial Hygienists.  
C = Ceiling Limit  
F = Fume  
IPEL = Internal Permissible Exposure Limit

S = Potential skin absorption  
SR = Respiratory sensitization  
SS = Skin sensitization  
STEL = Short term Exposure limit values  
TD = Total dust



## Section 8. Exposure controls/personal protection

OSHA = Occupational Safety and Health Administration.

R = Respirable

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

TLV = Threshold Limit Value

TWA = Time Weighted Average

### Consult local authorities for acceptable exposure limits.

**Recommended monitoring procedures** : 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.

**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. 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 they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**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** : Chemical splash goggles.

#### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Gloves** : For prolonged or repeated handling, use the following type of gloves:

Recommended: PVC, natural rubber (latex), butyl rubber, nitrile rubber, Chloroprene

**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.



## Section 8. Exposure controls/personal protection

**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  | : Not available.   |
| Odor   | : Not available.   |
| Odor threshold                               | : Not available.   |
| pH   | : Not available.   |
| Melting point                                | : Not available.   |
| Boiling point                                | : >37.78°C (>100°F)  |
| Flash point                                  | : Closed cup: -8.33°C (17°F)                                   |
| Auto-ignition temperature                    | : Not available.   |
| Decomposition temperature                    | : Not available.   |
| Flammability (solid, gas)                    | : Not available.   |
| Lower and upper explosive (flammable) limits | : Not available.   |
| Evaporation rate                             | : Not available.   |
| Vapor pressure                               | : Not available.   |
| Vapor density                                | : Not available.   |
| Relative density                             | : 1.22   |
| Density ( lbs / gal )                        | : 10.18  |
| Solubility                                   | : Insoluble in the following materials: cold water.            |
| Partition coefficient: n-octanol/water       | : Not available.   |
| Viscosity                                    | : Kinematic (40°C (104°F)): >0.21 cm <sup>2</sup> /s (>21 cSt) |
| Volatility                                   | : 45% (v/v), 46% (w/w)   |
| % Solid. (w/w)                               | : 54.48  |

Physical property values shown in this section are calculated averages. For specific product information, contact your PPG Sales Representative.

## Section 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients. |
| <b>Chemical stability</b>                 | : The product is stable.   |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.            |

## Section 10. Stability and reactivity

**Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products. 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 |
|--|---------------------------------|---------|-------------------------|----------|
| 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene | LC50 Inhalation Vapor           | Rat     | 33080 mg/m <sup>3</sup> | 4 hours  |
|  | LD50 Dermal                     | Rabbit  | >2.7 g/kg               | -        |
|  | LD50 Oral                       | Rat     | 13 g/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             | -        |
| diiron trioxide                                    | LC50 Inhalation Dusts and mists | Rat     | >5 mg/l                 | 4 hours  |
|  | LD50 Oral                       | Rat     | 10 g/kg                 | -        |
| acetone  | LC50 Inhalation Vapor           | Rat     | 76000 mg/m <sup>3</sup> | 4 hours  |
|  | LD50 Dermal                     | Rabbit  | 15.8 g/kg               | -        |
|  | LD50 Oral                       | Rat     | 5800 mg/kg              | -        |
| carbon black, respirable powder                    | LD50 Dermal                     | Rabbit  | >3 g/kg                 | -        |
|  | LD50 Oral                       | Rat     | >15400 mg/kg            | -        |
| heptan-2-one                                       | LC50 Inhalation Vapor           | Rat     | 16.7 mg/l               | 4 hours  |
|  | LD50 Dermal                     | Rabbit  | 10.206 g/kg             | -        |
|  | LD50 Oral                       | Rat     | 1.6 g/kg                | -        |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol    | LD50 Dermal                     | Rabbit  | >2000 mg/kg             | -        |
|  | LD50 Oral                       | Rat     | >2000 mg/kg             | -        |
| 2-ethylhexyl acetate                               | LD50 Oral                       | Rat     | 3 g/kg                  | -        |
| pentane-2,4-dione                                  | LC50 Inhalation Vapor           | Rat     | 5.1 mg/l                | 4 hours  |
|  | LD50 Dermal                     | Rat     | 790 mg/kg               | -        |
|  | LD50 Oral                       | Rat     | 570 mg/kg               | -        |
| 2-butoxyethanol                                    | LD50 Dermal                     | Rabbit  | 1060 mg/kg              | -        |
|  | LD50 Oral                       | Rat     | 470 mg/kg               | -        |
| 2-methoxy-1-methylethyl acetate                    | LD50 Dermal                     | Rabbit  | >5 g/kg                 | -        |
|  | LD50 Oral                       | Rat     | 8532 mg/kg              | -        |

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

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|---------|-------|----------|-------------|
| 2-butoxyethanol         | Skin - Moderate irritant | Rabbit  | -     | 4 hours  | 28 days     |
|                         | Eyes - Irritant          | Rabbit  | -     | 24 hours | 21 days     |

## Section 11. Toxicological information

### Conclusion/Summary

- Skin** : There are no data available on the mixture itself.
- Eyes** : There are no data available on the mixture itself.
- Respiratory** : There are no data available on the mixture itself.

### Sensitization

#### Conclusion/Summary

- Skin** : There are no data available on the mixture itself.
- Respiratory** : There are no data available on the mixture itself.

### Mutagenicity

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

### Carcinogenicity

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

### Classification

| Product/ingredient name                             | OSHA | IARC | NTP                             |
|---|------|------|---------------------------------|
| titanium dioxide                                    | -    | 2B   | -                               |
| diiron trioxide                                     | -    | 3    | -                               |
| carbon black, respirable powder                     | -    | 2B   | -                               |
| 2-butoxyethanol                                     | -    | 3    | -                               |
| crystalline silica, respirable powder (<10 microns) | -    | 1    | Known to be a human carcinogen. |

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

### Reproductive toxicity

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

### Teratogenicity

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

### Specific target organ toxicity (single exposure)

| Name   | Category   | Route of exposure | Target organs                |
|--|------------|-------------------|------------------------------|
| 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene         | Category 3 | Not applicable.   | Respiratory tract irritation |
| Talc , not containing asbestiform fibres                   | Category 3 | Not applicable.   | Respiratory tract irritation |
| Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-diphenyl- | Category 3 | Not applicable.   | Respiratory tract irritation |
| acetone  | Category 3 | Not applicable.   | Narcotic effects             |
| heptan-2-one   | Category 3 | Not applicable.   | Narcotic effects             |

### Specific target organ toxicity (repeated exposure)

## Section 11. Toxicological information

| Name   | Category                 | Route of exposure  | Target organs                       |
|--|--------------------------|--------------------|-------------------------------------|
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol<br>crystalline silica, respirable powder (<10 microns) | Category 2<br>Category 1 | Oral<br>Inhalation | kidneys and liver<br>Not determined |

**Target organs** : Contains material which causes damage to the following organs: mucous membranes, brain, , central nervous system (CNS).  
Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, spleen, lymphatic system, peripheral nervous system, gastrointestinal tract, cardiovascular system, upper respiratory tract, immune system, skin, bone marrow, eye, lens or cornea.

### Aspiration hazard

Not available.

### Information on the likely routes of exposure

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.  
**Inhalation** : May cause respiratory irritation.  
**Skin contact** : Causes skin irritation. Defatting to the skin.  
**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness  
**Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking  
**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Conclusion/Summary** : There are no data available on the mixture itself. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. This product contains TiO<sub>2</sub> which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO<sub>2</sub> is utilized as a raw material in a liquid coating formulation. In this case, the TiO<sub>2</sub> particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO<sub>2</sub> 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 health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include

## Section 11. Toxicological information

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.

### Short term exposure

**Potential immediate effects** : There are no data available on the mixture itself.

**Potential delayed effects** : There are no data available on the mixture itself.

### Long term exposure

**Potential immediate 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 effects

**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** : May cause 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** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Product/ingredient name                            | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| Low VOC Gloss                                      | 33801.5      | 4077.1         | N/A                      | 398.3                      | 85.7                                |
| 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene | 13000        | 2500           | N/A                      | 33.08                      | N/A                                 |
| diron trioxide                                     | 10000        | N/A            | N/A                      | N/A                        | N/A                                 |
| acetone  | 5800         | 15800          | N/A                      | 76                         | N/A                                 |
| carbon black, respirable powder                    | N/A          | 2500           | N/A                      | N/A                        | N/A                                 |
| heptan-2-one                                       | 1600         | 10206          | N/A                      | 16.7                       | 1.5                                 |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol    | 2500         | 2500           | N/A                      | N/A                        | N/A                                 |
| 2-ethylhexyl acetate                               | 3000         | N/A            | N/A                      | N/A                        | N/A                                 |
| pentane-2,4-dione                                  | 570          | 790            | N/A                      | 5.1                        | N/A                                 |
| 2-butoxyethanol                                    | 470          | 1060           | N/A                      | 11                         | 1.5                                 |
| 2-methoxy-1-methylethyl acetate                    | 8532         | N/A            | N/A                      | N/A                        | N/A                                 |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name                         | Result                           | Species                  | Exposure |
|---|----------------------------------|--------------------------|----------|
| titanium dioxide                                | Acute LC50 >100 mg/l Fresh water | Daphnia - Daphnia magna  | 48 hours |
| diiron trioxide                                 | Acute EC50 >100 mg/l             | Daphnia                  | 48 hours |
| heptan-2-one                                    | Acute LC50 131 mg/l              | Fish                     | 96 hours |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol | Acute LC50 >100 mg/l             | Fish - brachydanio rerio | 96 hours |
| 2-butoxyethanol                                 | Acute LC50 1474 mg/l             | Fish                     | 96 hours |
|   | Chronic NOEC >100 mg/l           | Fish                     | 21 days  |
| 2-methoxy-1-methylethyl acetate                 | Acute LC50 161 mg/l Fresh water  | Fish                     | 96 hours |

### Persistence and degradability

| Product/ingredient name | Test     | Result                   | Dose | Inoculum |
|-------------------------|----------|--------------------------|------|----------|
| heptan-2-one            | OECD 310 | 69 % - Readily - 28 days | -    | -        |

  

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| acetone                 | -                 | -          | Readily          |
| heptan-2-one            | -                 | -          | Readily          |
| 2-butoxyethanol         | -                 | -          | Readily          |

### Bioaccumulative potential

| Product/ingredient name         | LogP <sub>ow</sub> | BCF | Potential |
|---------------------------------|--------------------|-----|-----------|
| acetone                         | -0.24              | 3   | low       |
| heptan-2-one                    | 1.98               | -   | low       |
| pentane-2,4-dione               | 0.4                | -   | low       |
| 2-butoxyethanol                 | 0.81               | -   | low       |
| 2-methoxy-1-methylethyl acetate | 0.56               | -   | low       |

### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

## 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

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## Section 13. Disposal considerations

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            | IATA            |
|------------------------------------|-----------------|-----------------|-----------------|
| <b>UN number</b>                   | UN1263          | UN1263          | UN1263          |
| <b>UN proper shipping name</b>     | PAINT           | PAINT           | PAINT           |
| <b>Transport hazard class(es)</b>  | 3               | 3               | 3               |
| <b>Packing group</b>               | II              | II              | II              |
| <b>Environmental hazards</b>       | No.             | No.             | No.             |
| <b>Marine pollutant substances</b> | Not applicable. | Not applicable. | Not applicable. |

### Additional information

**DOT** : None identified.

**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.

## Section 15. Regulatory information

### United States

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

### **U.S. Federal regulations** :

**United States - TSCA 12(b) - Chemical export notification:**

4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene

pentane-2,4-dione

One time notification

One time notification

**United States - TSCA 5(a)2 - Final significant new use rules:**

pentane-2,4-dione

Listed

### SARA 302/304

**SARA 304 RQ** : Not applicable.



## Section 15. Regulatory information

### Composition/information on ingredients

No products were found.

### SARA 311/312

**Classification** : FLAMMABLE LIQUIDS - Category 2  
 SKIN IRRITATION - Category 2  
 EYE IRRITATION - Category 2A  
 CARCINOGENICITY - Category 1A  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys, liver) - Category 2  
 HNOC - Defatting irritant

### Composition/information on ingredients

| Name   | %                      | Classification  |
|--|------------------------|---|
| 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene         | $\geq 90$              | FLAMMABLE LIQUIDS - Category 3<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3<br>HNOC - Defatting irritant       |
| titanium dioxide   | $\geq 20 - \leq 50$    | CARCINOGENICITY - Category 2  |
| Talc , not containing asbestiform fibres                   | $\geq 10 - \leq 20$    | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  |
| Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-diphenyl- | $\geq 5.0 - \leq 10$   | COMBUSTIBLE DUSTS<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3   |
| acetone  | $\geq 5.0 - \leq 10$   | FLAMMABLE LIQUIDS - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3<br>HNOC - Defatting irritant   |
| carbon black, respirable powder                            | $\geq 1.0 - \leq 5.0$  | COMBUSTIBLE DUSTS<br>CARCINOGENICITY - Category 2   |
| heptan-2-one   | $\geq 1.0 - \leq 4.3$  | FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (oral) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3<br>HNOC - Defatting irritant |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol            | $\geq 1.0 - \leq 3.3$  | COMBUSTIBLE DUSTS<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys, liver) (oral) - Category 2  |
| 2-ethylhexyl acetate                                       | $\geq 1.0 - \leq 5.0$  | SKIN IRRITATION - Category 2  |
| pentane-2,4-dione  | $\geq 0.10 - \leq 2.5$ | FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (oral) - Category 4<br>ACUTE TOXICITY (dermal) - Category 3<br>ACUTE TOXICITY (inhalation) - Category 3  |
| 2-butoxyethanol  | $\geq 0.10 - \leq 2.2$ | FLAMMABLE LIQUIDS - Category 4<br>ACUTE TOXICITY (oral) - Category 4<br>ACUTE TOXICITY (dermal) - Category 4  |

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|   |      |   |
|---|------|---|
| crystalline silica, respirable powder (<10 microns) | <1.0 | ACUTE TOXICITY (inhalation) - Category 4<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>CARCINOGENICITY - Category 1A<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (inhalation) - Category 1 |
|---|------|---|

### SARA 313

|                              | <u>Chemical name</u> | <u>CAS number</u> | <u>Concentration</u> |
|------------------------------|----------------------|-------------------|----------------------|
| <b>Supplier notification</b> | : 2-butoxyethanol    | 111-76-2          | 0.5 - 1.5            |

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.

**Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.**

### California Prop. 65

 **WARNING:** Cancer - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## Section 16. Other information

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

**Health** : 3 \* **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.

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** : 3 **Flammability** : 3 **Instability** : 0

**Date of previous issue** : 8/10/2019

**Organization that prepared the MSDS** : EHS

**Key to abbreviations** :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available
- SGG = Segregation Group
- UN = United Nations

 Indicates information that has changed from previously issued version.

### Disclaimer

## Section 16. Other information

*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.*