# SAFETY DATA SHEET



Date of issue/Date of revision 16 October 2023

Version 8

# Section 1. Identification

: SIGMADUR 2800 BASE RAL 9003 **Product name** 

**Product code** : 00393324 Other means of : Not available. identification

**Product type** : Liquid.

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

**Product use** : Professional applications, Used by spraying.

Use of the substance/

mixture

: Coating.

Uses advised against : Not applicable.

: PPG Industries. Inc. Manufacturer

> One PPG Place Pittsburgh, PA 15272 : (412) 434-4515 (U.S.)

**Emergency telephone** 

number

(514) 645-1320 (Canada)

SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)

**Technical Phone Number** : 888-977-4762

# Section 2. Hazards identification

**OSHA/HCS** status

Classification of the substance or mixture : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

: FLAMMABLE LIQUIDS - Category 3 SKIN SENSITIZATION - Category 1 **CARCINOGENICITY - Category 2** 

TOXIC TO REPRODUCTION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 34.1%

(oral), 34.1% (dermal), 34.1% (inhalation)

This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many 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

> **United States** Page: 1/17

Product name SIGMADUR 2800 BASE RAL 9003

### Section 2. Hazards identification

engineering controls (see Section 8).

### **GHS label elements**

Hazard pictograms







Signal word

: Warning

**Hazard statements** 

: Flammable liquid and vapor.
May cause an allergic skin reaction.
May cause drowsiness or dizziness.
Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

### **Precautionary statements**

**Prevention** 

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Contaminated work clothing must not be allowed out of the workplace.

### Response

: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.

Apply generous quantities of fresh calcium gluconate gel to all areas. Get immediate medical attention.

### **Storage**

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

### **Disposal**

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

# Supplemental label 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. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

# 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** 

: SIGMADUR 2800 BASE RAL 9003

United States Page: 2/17

Product name SIGMADUR 2800 BASE RAL 9003

# Section 3. Composition/information on ingredients

| Ingredient name                                 | %         | CAS number |
|-------------------------------------------------|-----------|------------|
| titanium dioxide                                | ≥20 - ≤50 | 13463-67-7 |
| n-butyl acetate                                 | ≥20 - ≤50 | 123-86-4   |
| 2-methoxy-1-methylethyl acetate                 | ≥10 - ≤20 | 108-65-6   |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | <1.0      | 41556-26-7 |
| titanium dioxide (<10 microns)                  | ≤1.0      | 13463-67-7 |
| propylidynetrimethanol                          | ≤1.0      | 77-99-6    |
| ethylbenzene                                    | <1.0      | 100-41-4   |
| maleic anhydride                                | <0.10     | 108-31-6   |

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.

Apply generous quantities of fresh calcium gluconate gel to all areas. Get immediate

medical attention.

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

**Eye contact**: No known significant effects or critical hazards.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact**: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin

reaction.

Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact : No specific data.

United States Page: 3/17

### Product name SIGMADUR 2800 BASE RAL 9003

### Section 4. First aid measures

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness 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

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

Notes to physician

 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**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

a...iobina

Unsuitable extinguishing

media

: Use dry chemical, CO2, water spray (fog) or foam.

: Do not use water jet.

Specific hazards arising from the chemical

: 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.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon oxides

halogenated compounds metal oxide/oxides

United States Page: 4/17

Product name SIGMADUR 2800 BASE RAL 9003

# Section 5. Fire-fighting measures

The fluoropolymer resins used in this coating begin to decompose, very slowly, at temperatures above 625°F (330°C). Thermal decomposition is more rapid at temperatures above 750°F (400°C). Above 800°F (425°C) fluoropolymer resins give off small amounts of tetrafluoroethylene / hexafluoropropylene / perisofluorobutylene / carbonyl fluoride / hydrogen fluoride. These are toxic and if inhaled, in sufficient quantities, may be harmful. The actual decomposition products depend on temperature and the amount of oxygen.

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.

United States Page: 5/17

Date of issue 16 October 2023 Version 8

Product code 00393324

Product name SIGMADUR 2800 BASE RAL 9003

# Section 7. Handling and storage

### Precautions for safe handling

### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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

Store between the following temperatures: 0 to 35°C (32 to 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 |                                                      |  |  |  |
|---------------------------------|------------------------------------------------------|--|--|--|
| titanium dioxide                | OSHA PEL (United States, 5/2018).                    |  |  |  |
|                                 | TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust  |  |  |  |
|                                 | ACGIH TLV (United States, 1/2022).                   |  |  |  |
|                                 | TWA: 2.5 mg/m <sup>3</sup> 8 hours. Form: respirable |  |  |  |
|                                 | fraction, finescale particles                        |  |  |  |
| n-butyl acetate                 | OSHA PEL (United States, 5/2018).                    |  |  |  |
|                                 | TWA: 710 mg/m <sup>3</sup> 8 hours.                  |  |  |  |
|                                 | TWA: 150 ppm 8 hours.                                |  |  |  |
|                                 | ACGIH TLV (United States, 1/2022). [Butyl            |  |  |  |
|                                 | acetates all isomers]                                |  |  |  |
|                                 | STEL: 150 ppm 15 minutes.                            |  |  |  |
| _                               | United States Page: 6/17                             |  |  |  |

Product name SIGMADUR 2800 BASE RAL 9003

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

titanium dioxide (<10 microns)

propylidynetrimethanol

ethylbenzene

maleic anhydride

# Section 8. Exposure controls/personal protection

TWA: 50 ppm 8 hours.

2-methoxy-1-methylethyl acetate IPEL (-, 10/2017). Absorbed through skin.

TWA: 30 ppm STEL: 90 ppm

None.

OSHA PEL (United States, 5/2018).

TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust ACGIH TLV (United States, 1/2022).

TWA: 2.5 mg/m<sup>3</sup> 8 hours. Form: respirable

fraction, finescale particles

None.

ACGIH TLV (United States, 1/2022).

Ototoxicant.

TWA: 20 ppm 8 hours.

OSHA PEL (United States, 5/2018).

TWA: 435 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.

ACGIH TLV (United States, 1/2022). Skin

sensitizer. Inhalation sensitizer.

TWA: 0.01 mg/m<sup>3</sup> 8 hours. Form: Inhalable

fraction and vapor

OSHA PEL (United States, 5/2018).

TWA: 1 mg/m<sup>3</sup> 8 hours. TWA: 0.25 ppm 8 hours.

### Key to abbreviations

= Acceptable Maximum Peak S = Potential skin absorption ACGIH = American Conference of Governmental Industrial Hygienists. SR = Respiratory sensitization SS = Skin sensitization С = Ceiling Limit

F STEL = Short term Exposure limit values = Fume IPFI = Internal Permissible Exposure Limit TD = Total dust

OSHA = Occupational Safety and Health Administration. TLV = Threshold Limit Value = Respirable TWA = Time Weighted Average = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

Consult local authorities for acceptable exposure limits.

procedures

**Recommended monitoring**: Reference should be made to appropriate monitoring standards. Reference to national quidance 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** 

**United States** Page: 7/17

Product name SIGMADUR 2800 BASE RAL 9003

# Section 8. Exposure controls/personal protection

**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.

Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

**Eye/face protection** 

Skin protection **Hand protection** 

Gloves

: Safety glasses with side shields.

: 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.

butyl rubber

Personal protective equipment for the body should be selected based on the task being **Body protection** 

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 antistatic 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.

: Respirator selection must be based on known or anticipated exposure levels, the Respiratory protection

> 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. The respiratory protection shall be in accordance to 29 CFR 1910.134.

# Section 9. Physical and chemical properties

**Appearance** 

**Physical state** : Liquid. Color White. Odor : Aromatic. **Odor threshold** Not available.

pН : Not applicable. **Melting point** : Not available.

**Boiling point** : >37.78°C (>100°F)

**Flash point** : Closed cup: 31°C (87.8°F)

**Auto-ignition temperature** : Not available. : Not available. **Decomposition temperature Flammability** : Not available. : Not available. Lower and upper explosive

(flammable) limits

**Evaporation rate** : Not available.

**United States** Page: 8/17

Product name SIGMADUR 2800 BASE RAL 9003

# Section 9. Physical and chemical properties

Vapor pressure : Not available.
Vapor density : Not available.

Relative density : 1.34

Density ( lbs / gal ) : 11.18

Solubility(ies) Media Result

cold water Not soluble

Partition coefficient: n-

octanol/water

: Not applicable.

**Viscosity** : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

**Volatility** : 53% (v/v), 36.669% (w/w)

% Solid. (w/w) : 63.331

# 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. 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

: Depending on conditions, decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides

The fluoropolymer resins used in this coating begin to decompose, very slowly, at temperatures above 625°F (330°C). Thermal decomposition is more rapid at temperatures above 750°F (400°C). Above 800°F (425°C) fluoropolymer resins give off small amounts of tetrafluoroethylene / hexafluoropropylene / perisofluorobutylene / carbonyl fluoride / hydrogen fluoride. These are toxic and if inhaled, in sufficient quantities, may be harmful. The actual decomposition products depend on temperature and the amount of oxygen. Proper ventilation should be used at all curing temperatures.

# **Section 11. Toxicological information**

Information on toxicological effects

Acute toxicity

United States Page: 9/17

Date of issue 16 October 2023 **Version 8** 

Product code 00393324

### Product name SIGMADUR 2800 BASE RAL 9003

# **Section 11. Toxicological information**

| Product/ingredient name                             | Result                          | Species | Dose         | Exposure |
|-----------------------------------------------------|---------------------------------|---------|--------------|----------|
| 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  | -        |
| n-butyl acetate                                     | LC50 Inhalation Vapor           | Rat     | >21.1 mg/l   | 4 hours  |
|                                                     | LC50 Inhalation Vapor           | Rat     | 2000 ppm     | 4 hours  |
|                                                     | LD50 Dermal                     | Rabbit  | >17600 mg/kg | -        |
|                                                     | LD50 Oral                       | Rat     | 10.768 g/kg  | -        |
| 2-methoxy-1-methylethyl acetate                     | LC50 Inhalation Vapor           | Rat     | 30 mg/l      | 4 hours  |
|                                                     | LD50 Dermal                     | Rabbit  | >5 g/kg      | -        |
|                                                     | LD50 Oral                       | Rat     | 6190 mg/kg   | -        |
| bis(1,2,2,6,6-pentamethyl-<br>4-piperidyl) sebacate | LD50 Oral                       | Rat     | 3.125 g/kg   | -        |
| titanium dioxide (<10 microns)                      | LC50 Inhalation Dusts and mists | Rat     | >6.82 mg/l   | 4 hours  |
|                                                     | LD50 Dermal                     | Rabbit  | >5000 mg/kg  | -        |
|                                                     | LD50 Oral                       | Rat     | >5000 mg/kg  | -        |
| propylidynetrimethanol                              | LD50 Dermal                     | Rabbit  | 10 g/kg      | -        |
|                                                     | LD50 Oral                       | Rat     | 14000 mg/kg  | -        |
| ethylbenzene                                        | LC50 Inhalation Vapor           | Rat     | 17.8 mg/l    | 4 hours  |
|                                                     | LD50 Dermal                     | Rabbit  | 17.8 g/kg    | -        |
|                                                     | LD50 Oral                       | Rat     | 3.5 g/kg     | -        |
| maleic anhydride                                    | LD50 Dermal                     | Rabbit  | 2620 mg/kg   | -        |
|                                                     | LD50 Oral                       | Rat     | 400 mg/kg    | -        |

**Conclusion/Summary** 

: There are no data available on the mixture itself.

**Irritation/Corrosion** 

**Conclusion/Summary** 

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

**Sensitization** 

**Conclusion/Summary** 

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

**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<br>titanium dioxide (<10 | -    | 2B<br>2B | -   |
| microns)<br>ethylbenzene                  | _    | 2B       | _   |

**Carcinogen Classification code:** 

**United States** Page: 10/17

### Product name SIGMADUR 2800 BASE RAL 9003

# **Section 11. Toxicological information**

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                            |            | Route of exposure | Target organs    |
|---------------------------------|------------|-------------------|------------------|
| n-butyl acetate                 | Category 3 |                   | Narcotic effects |
| 2-methoxy-1-methylethyl acetate | Category 3 |                   | Narcotic effects |

### Specific target organ toxicity (repeated exposure)

| Name                             |                          | Route of exposure | Target organs                     |
|----------------------------------|--------------------------|-------------------|-----------------------------------|
| ethylbenzene<br>maleic anhydride | Category 2<br>Category 1 |                   | hearing organs respiratory system |

<u>Target organs</u>: Contains material which causes damage to the following organs: brain.

Contains material which may cause damage to the following organs: kidneys, lungs, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

### **Aspiration hazard**

| Name         | Result                         |
|--------------|--------------------------------|
| ethylbenzene | ASPIRATION HAZARD - Category 1 |

### Information on the likely routes of exposure

### Potential acute health effects

**Eye contact**: No known significant effects or critical hazards.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact**: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin

reaction.

**Ingestion** : Can cause central nervous system (CNS) depression.

### Over-exposure signs/symptoms

**Eye contact** : No specific data.

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

United States Page: 11/17

Product name SIGMADUR 2800 BASE RAL 9003

# Section 11. Toxicological information

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness 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

### 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 TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many 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 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 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

effects

: There are no data available on the mixture itself.

**Potential delayed effects** 

, communicación de la composition della composit

: There are no data available on the mixture itself.

Long term exposure

**Potential immediate** 

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 : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently

exposed to very low levels.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

**Mutagenicity**: No known significant effects or critical hazards.

**Reproductive toxicity**: Suspected of damaging fertility or the unborn child.

United States Page: 12/17

Date of issue 16 October 2023 Version 8

# Product name SIGMADUR 2800 BASE RAL 9003

# Section 11. Toxicological information

### **Numerical measures of toxicity**

Product code 00393324

**Acute toxicity estimates** 

| Product/ingredient name                         | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapors)<br>(mg/l) | Inhalation<br>(dusts and<br>mists) (mg/<br>I) |
|-------------------------------------------------|------------------|-------------------|--------------------------------|----------------------------------|-----------------------------------------------|
| n-butyl acetate                                 | 10768            | N/A               | N/A                            | N/A                              | N/A                                           |
| 2-methoxy-1-methylethyl acetate                 | 6190             | N/A               | N/A                            | 30                               | N/A                                           |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | 3125             | N/A               | N/A                            | N/A                              | N/A                                           |
| propylidynetrimethanol                          | 14000            | 10000             | N/A                            | N/A                              | N/A                                           |
| ethylbenzene                                    | 3500             | 17800             | N/A                            | 17.8                             | 1.5                                           |
| maleic anhydride                                | 400              | 2620              | N/A                            | N/A                              | N/A                                           |

# Section 12. Ecological information

### **Toxicity**

| Product/ingredient name                                                   | Result                                                                                                                          | Species                                                                         | Exposure                         |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------|
| titanium dioxide<br>n-butyl acetate<br>2-methoxy-1-methylethyl<br>acetate | Acute LC50 >100 mg/l Fresh water<br>Acute LC50 18 mg/l<br>Acute LC50 134 mg/l Fresh water                                       | Daphnia - <i>Daphnia magna</i> Fish Fish - <i>Oncorhynchus mykiss</i>           | 48 hours<br>96 hours<br>96 hours |
| titanium dioxide (<10 microns)<br>propylidynetrimethanol<br>ethylbenzene  | Acute LC50 >100 mg/l Fresh water<br>Acute LC50 >1000 mg/l<br>Acute EC50 1.8 mg/l Fresh water<br>Chronic NOEC 1 mg/l Fresh water | Daphnia - <i>Daphnia magna</i> Fish Daphnia Daphnia - <i>Ceriodaphnia dubia</i> | 48 hours<br>96 hours<br>48 hours |

### Persistence and degradability

| Product/ingredient name         | Test               | Result      |                | Dose | Inoculum         |
|---------------------------------|--------------------|-------------|----------------|------|------------------|
| n-butyl acetate                 | TEPA and OECD 301D | 83 % - Read | dily - 28 days | -    | -                |
| 2-methoxy-1-methylethyl acetate | -                  | 83 % - Rea  | dily - 28 days | -    | -                |
| ethylbenzene                    | -                  | 79 % - Read | dily - 10 days | -    | _                |
| Product/ingredient name         | Aquatic half-life  |             | Photolysis     |      | Biodegradability |
|                                 |                    |             |                |      |                  |

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| n-butyl acetate         | -                 | -          | Readily          |
| 2-methoxy-1-methylethyl | -                 | -          | Readily          |
| acetate                 |                   |            |                  |
| ethylbenzene            | -                 | -          | Readily          |

### **Bioaccumulative potential**

United States Page: 13/17

Product name SIGMADUR 2800 BASE RAL 9003

# **Section 12. Ecological information**

| Product/ingredient name | LogPow | BCF   | Potential |
|-------------------------|--------|-------|-----------|
| n-butyl acetate         | 2.3    | -     | Low       |
| 2-methoxy-1-methylethyl | 1.2    | -     | Low       |
| acetate                 |        |       |           |
| propylidynetrimethanol  | -0.47  | -     | Low       |
| ethylbenzene            | 3.6    | 79.43 | Low       |
| maleic anhydride        | -2.78  | -     | Low       |

**Mobility in soil** 

Soil/water partition coefficient (Koc)

: 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 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            |
|-----------------------------|-----------------|-----------------|-----------------|
| UN number                   | UN1263          | UN1263          | UN1263          |
| UN proper shipping name     | PAINT           | PAINT           | PAINT           |
| Transport hazard class (es) | 3               | 3               | 3               |
| Packing group               | III             | III             | III             |
| Environmental hazards       | No.             | No.             | No.             |
| Marine pollutant substances | Not applicable. | Not applicable. | Not applicable. |
| Product RQ (lbs)            | 21073.7         | Not applicable. | Not applicable. |

United States Page: 14/17

### Product name SIGMADUR 2800 BASE RAL 9003

# 14. Transport information

RQ substances (n-butyl acetate, xylene) Not applicable. Not applicable.

### **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.

Transport in bulk according : Not applicable.

to IMO instruments

# **Section 15. Regulatory information**

### **United States**

United States inventory (TSCA 8b): At least one component is inactive.

**SARA 302/304** 

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

**SARA 311/312** 

Classification : FLAMMABLE LIQUIDS - Category 3

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

HNOC - Defatting irritant

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

| Name                            | %         | Classification                                   |
|---------------------------------|-----------|--------------------------------------------------|
| titanium dioxide                | ≥20 - ≤50 | CARCINOGENICITY - Category 2                     |
| n-butyl acetate                 | ≥20 - ≤50 | FLAMMABLE LIQUIDS - Category 2                   |
|                                 |           | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) |
|                                 |           | (Narcotic effects) - Category 3                  |
|                                 |           | HNOC - Defatting irritant                        |
| 2-methoxy-1-methylethyl acetate | ≥10 - ≤20 | FLAMMABLE LIQUIDS - Category 3                   |
|                                 |           | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) |
|                                 |           | (Narcotic effects) - Category 3                  |
| bis(1,2,2,6,6-pentamethyl-      | <1.0      | SKIN SENSITIZATION - Category 1B                 |
| 4-piperidyl) sebacate           |           | TOXIC TO REPRODUCTION - Category 2               |
| titanium dioxide (<10 microns)  | ≤1.0      | CARCINOGENICITY - Category 2                     |
| propylidynetrimethanol          | ≤1.0      | TOXIC TO REPRODUCTION - Category 2               |
| ethylbenzene                    | <1.0      | FLAMMABLE LIQUIDS - Category 2                   |
|                                 |           |                                                  |

United States Page: 15/17

Product name SIGMADUR 2800 BASE RAL 9003

# Section 15. Regulatory information

### **SARA 313**

**Chemical name** CAS number Concentration

**Supplier notification** : ethylbenzene 100-41-4 0.1 - 1

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.

# Section 16. Other information

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

Health: Flammability: 3 Physical hazards:

(\*) - 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: Flammability: 3 **Instability**: 0

Date of previous issue : 8/18/2023 Organization that prepared

the SDS

Key to abbreviations : ATE = Acute Toxicity Estimate

: EHS

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

**United States** Page: 16/17

Product name SIGMADUR 2800 BASE RAL 9003

## **Section 16. Other information**

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**

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.

United States Page: 17/17