SAFETY DATA SHEET



Date of issue/Date of revision 30 March 2016

Version 8

Section 1. Identification

Product name : BRP1580 Component A Low VOC Ureth Gloss

Product code : BLVG-1

Other means of : Not available. identification

Product type : Liquid.

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

Product use : Industrial applications.

Use of the substance/ : Coating.

mixture

Uses advised against : Not applicable.

Manufacturer : PPG Industries, Inc.

One PPG Place,

Pittsburgh, PA 15272 : (412) 434-4515 (U.S.)

<u>number</u> (514) 645-1320 (Canada)

01-800-00-21-400 (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

Emergency telephone

: FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

CARCINOGENICITY - Category 1A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 100%

GHS label elements

Hazard pictograms :







United States Page: 1/17

Date of issue 30 March 2016

Version 8

Product name BRP1580 Component A Low VOC Ureth Gloss

Section 2. Hazards identification

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.

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

: 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.

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

: BRP1580 Component A Low VOC Ureth Gloss

United States Page: 2/17

Product name BRP1580 Component A Low VOC Ureth Gloss

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
4-chloro-α,α,α-trifluorotoluene	≥90	98-56-6
titanium dioxide	≥25 - <50	13463-67-7
Talc , not containing asbestiform fibres	≥3 - <25	14807-96-6
diiron trioxide	≥0.1 - <25	1309-37-1
Umber	≥1 - <25	12713-03-0
Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-diphenyl-	≥2 - <25	54660-00-3
acetone	≥1 - <20	67-64-1
carbon black, respirable powder	≥0.1 - <25	1333-86-4
heptan-2-one	≥1 - <23	110-43-0
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol	≥1 - <25	25973-55-1
2-ethylhexyl acetate	≥1 - <15	103-09-3
pentane-2,4-dione	≥1 - <12	123-54-6
2-butoxyethanol	≥1 - <11	111-76-2
2-methoxy-1-methylethyl acetate	≥0.1 - <25	108-65-6
rosin	≥0.1 - <1	8050-09-7
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	≥0.1 - <1	41556-26-7
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	≥0.1 - <1	82919-37-7
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	≥0.1 - <1	123-26-2
Additive	≥0.1 - <1	Not available.
Additive	≥0.1 - <1	Not available.
crystalline silica, respirable powder (<10 microns)	≥0.1 - <1	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

Eye contact : Causes serious eye irritation.

United States Page: 3/17

Product name BRP1580 Component A Low VOC Ureth Gloss

Section 4. First aid measures

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

: 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, CO₂, 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.

United States Page: 4/17

Product name BRP1580 Component A Low VOC Ureth Gloss

Section 5. Fire-fighting measures

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide carbon monoxide 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 specialised 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 nonemergency 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 30 March 2016 **Version 8**

Product name BRP1580 Component A Low VOC Ureth Gloss

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-α,α,α-trifluorotoluene	IPEL (PPG).
titanium dioxide	TWA: 25 ppm OSHA PEL (United States, 2/2013). TWA: 15 mg/m³ 8 hours. Form: Total dust
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 3/2015). TWA: 10 mg/m³ 8 hours. ACGIH TLV (United States, 3/2015). TWA: 2 mg/m³ 8 hours. Form: Respirable. OSHA PEL Z3 (United States, 2/2013).
diiron trioxide	TWA: 20 mppcf 8 hours. Form: not containing asbestos ACGIH TLV (United States, 3/2015). TWA: 5 mg/m³ 8 hours. Form: Respirable
'	United States Page: 6/17

Date of issue 30 March 2016

Version 8

Product name BRP1580 Component A Low VOC Ureth Gloss

Section 8. Exposure controls/personal protection

Umber

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

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

rosin

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)

Additive

fraction

OSHA PEL (United States, 2/2013).

TWA: 10 mg/m³ 8 hours.

OSHA PEL (United States, 2/2013).

CEIL: 5 mg/m³, (as Mn)

ACGIH TLV (United States, 3/2015).

TWA: 0.1 mg/m³, (as Mn) 8 hours. Form:

Inhalable fraction

TWA: 0.02 mg/m³, (as Mn) 8 hours. Form:

Respirable fraction

None.

ACGIH TLV (United States, 3/2015).

STEL: 500 ppm 15 minutes. TWA: 250 ppm 8 hours.

OSHA PEL (United States, 2/2013).

TWA: 2400 mg/m³ 8 hours. TWA: 1000 ppm 8 hours.

ACGIH TLV (United States, 3/2015).

TWA: 3 mg/m³ 8 hours. Form: Inhalable

fraction

OSHA PEL (United States, 2/2013).

TWA: 3.5 mg/m³ 8 hours.

ACGIH TLV (United States, 3/2015).

TWA: 233 mg/m³ 8 hours. TWA: 50 ppm 8 hours.

OSHA PEL (United States, 2/2013).

TWA: 465 mg/m³ 8 hours. TWA: 100 ppm 8 hours.

None. None.

ACGIH TLV (United States, 3/2015).

Absorbed through skin. TWA: 25 ppm 8 hours.

ACGIH TLV (United States, 3/2015).

TWA: 20 ppm 8 hours.

OSHA PEL (United States, 2/2013).

Absorbed through skin. TWA: 240 mg/m³ 8 hours. TWA: 50 ppm 8 hours.

IPEL (PPG, 4/2009).

TWA: 50 ppm

None. None. None.

OSHA PEL (United States).

TWA: 15 mg/m³

TWA: 5 mg/m³ Form: Respirable TWA: 15 mg/m³ Form: Total dust

ACGIH TLV (United States).

TWA: 3 mg/m³ Form: Respirable TWA: 10 mg/m³ Form: Total dust

None.

United States Page: 7/17

Product name BRP1580 Component A Low VOC Ureth Gloss

Section 8. Exposure controls/personal protection

Additive

crystalline silica, respirable powder (<10 microns) OSHA PEL Z3 (United States, 2/2013). TWA: 10 MG/M3 / (%SiO2+2) 8 hours. Form:

Respirable

TWA: 250 MPPCF / (%SiO2+5) 8 hours.

Form: Respirable

ACGIH TLV (United States, 3/2015). TWA: 0.025 mg/m³ 8 hours. Form:

Respirable.

OSHA PEL Z3 (United States). TWA: 30 mg/m3 Form: Total dust

Key to abbreviations

S = Acceptable Maximum Peak = Potential skin absorption ACGIH

= American Conference of Governmental Industrial Hygienists. SR = Respiratory sensitization С = Ceiling Limit SS = Skin sensitization

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

= Occupational Safety and Health Administration. TLV = Threshold Limit Value **OSHA** R = 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: 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 Skin protection

: Chemical splash goggles.

United States Page: 8/17

Product name BRP1580 Component A Low VOC Ureth Gloss

Section 8. Exposure controls/personal 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: butyl rubber

May be used: 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 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.

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)

Material supports : Yes.

combustion.

Auto-ignition temperature: Not available.Decomposition temperature: Not available.Flammability (solid, gas): Not available.Lower and upper explosive: Not available.

(flammable) limits

Evaporation rate: Not available.Vapor pressure: Not available.Vapor density: Not available.

Relative density : 1.22

United States Page: 9/17

Product name BRP1580 Component A Low VOC Ureth Gloss

Section 9. Physical and chemical properties

Density (lbs/gal) : 10.18

Solubility : Insoluble in the following materials: cold water.

Partition coefficient: n-

octanol/water

: Not available.

: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt) **Viscosity**

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

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

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-α,α,α-trifluorotoluene	LC50 Inhalation Vapor	Rat	33080 mg/m³	4 hours
	LD50 Dermal	Rabbit	>2.7 g/kg	-
	LD50 Oral	Rat	13 g/kg	-
titanium dioxide	LD50 Oral	Rat	>11 g/kg	_
diiron trioxide	LD50 Oral	Rat	10 g/kg	-
acetone	LC50 Inhalation Vapor	Rat	76000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	20 g/kg	_
	LD50 Oral	Rat	1.8 g/kg	-
carbon black, respirable	LD50 Dermal	Rabbit	>3 g/kg	-
powder				
	LD50 Oral	Rat	>15400 mg/kg	_
heptan-2-one	LD50 Dermal	Rabbit	10.206 g/kg	_
•	LD50 Oral	Rat	1.6 g/kg	-

United States Page: 10/17

Product name BRP1580 Component A Low VOC Ureth Gloss

Section 11. Toxicological information

2-(2H-benzotriazol-2-yl)-4, 6-ditertpentylphenol	LD50 Dermal	Rabbit	>2000 mg/kg	-
2 1 1 4 1 9 P	LD50 Oral	Rat	>2000 mg/kg	-
2-ethylhexyl acetate	LD50 Oral	Rat	3 g/kg	-
pentane-2,4-dione	LC50 Inhalation Vapor	Rat	1225 ppm	4 hours
	LD50 Dermal	Rabbit	787.4 mg/kg	-
	LD50 Oral	Rat	55 mg/kg	-
2-butoxyethanol	LD50 Dermal	Rabbit	1060 mg/kg	-
	LD50 Oral	Rat	470 mg/kg	-
2-methoxy-1-methylethyl	LD50 Dermal	Rabbit	>5 g/kg	-
acetate				
	LD50 Oral	Rat	8532 mg/kg	-
rosin	LD50 Oral	Rat	7600 mg/kg	-
bis(1,2,2,6,6-pentamethyl-	LD50 Oral	Rat	3.125 g/kg	-
4-piperidyl) sebacate				
methyl 1,2,2,6,6-pentamethyl-	LD50 Oral	Rat	3.125 g/kg	-
4-piperidyl sebacate				
N,N'-ethane-1,2-diylbis	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours
(12-hydroxyoctadecan-				
1-amide)				
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 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.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:

United States Page: 11/17

Product name BRP1580 Component A Low VOC Ureth Gloss

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	Category
4-chloro-α,α,α-trifluorotoluene	Category 3
Talc , not containing asbestiform fibres	Category 3
Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-diphenyl-	Category 3
acetone	Category 3
Additive	Category 3
Additive	Category 3

Specific target organ toxicity (repeated exposure)

Name	Category
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol	Category 2 Category 2 Category 1

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, 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 contactInhalationCauses serious eye irritation.May cause respiratory irritation.

Skin contactIngestionCauses skin irritation. Defatting to the skin.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

United States Page: 12/17

Product name BRP1580 Component A Low VOC Ureth Gloss

Section 11. Toxicological information

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

effects

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

Long term exposure

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

effects

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

Route	ATE value
Oral	21027.6 mg/kg
Dermal	89361.7 mg/kg
Inhalation (gases)	317710.1 ppm
Inhalation (vapors)	327.9 mg/l
Inhalation (dusts and mists)	105.9 mg/l

United States Page:	13/17
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Date of issue 30 March 2016

Version 8

Product name BRP1580 Component A Low VOC Ureth Gloss

Section 11. Toxicological information

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide 2-(2H-benzotriazol-2-yl)-4, 6-ditertpentylphenol	Acute LC50 >100 mg/l Fresh water Acute EC50 >10 mg/l	Daphnia - Daphnia magna Algae	48 hours 72 hours
	Acute LC50 >100 mg/l	Fish - brachydanio rerio	96 hours
2-methoxy-1-methylethyl acetate	Acute LC50 161 mg/l Fresh water	Fish	96 hours
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	Acute EC50 29 to 43 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 94 mg/l	Daphnia - Daphnia magna	48 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	-	63 % - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
acetone 2-butoxyethanol N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	-	-	Readily Readily Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	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	
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	>6	-	high	

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

United States Page: 14/17

Product name BRP1580 Component A Low VOC Ureth Gloss

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	1263	1263	1263		
UN proper shipping name	PAINT	PAINT	PAINT		
Transport hazard class (es)	3	3	3		
Packing group	II	II	II		
Environmental hazards	No.	No.	No.		
Marine pollutant substances	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.

United States Page: 15/17

Date of issue 30 March 2016

Version 8

Product name BRP1580 Component A Low VOC Ureth Gloss

Section 15. Regulatory information

United States

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

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

pentane-2,4-dione Listed

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification : Fire hazard

Immediate (acute) health hazard Delayed (chronic) health hazard

Composition/information on ingredients

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
4-chloro-α,α,α-trifluorotoluene	Yes.	No.	No.	Yes.	No.
titanium dioxide	No.	No.	No.	No.	Yes.
Talc , not containing asbestiform fibres	No.	No.	No.	Yes.	No.
Umber	No.	No.	No.	Yes.	Yes.
Pyrrolo[3,4-c]pyrrole-1,4-dione, 2, 5-dihydro-3,6-diphenyl-	Yes.	No.	No.	Yes.	No.
acetone	Yes.	No.	No.	Yes.	No.
carbon black, respirable powder	Yes.	No.	No.	No.	Yes.
heptan-2-one	Yes.	No.	No.	Yes.	No.
2-(2H-benzotriazol-2-yl)-4, 6-ditertpentylphenol	Yes.	No.	No.	No.	Yes.
2-ethylhexyl acetate	No.	No.	No.	Yes.	No.
pentane-2,4-dione	Yes.	No.	No.	Yes.	No.
2-butoxyethanol	Yes.	No.	No.	Yes.	No.
2-methoxy-1-methylethyl acetate	Yes.	No.	No.	No.	No.
rosin	Yes.	No.	No.	Yes.	No.
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	No.	No.	No.	Yes.	No.
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	No.	No.	No.	Yes.	No.
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	Yes.	No.	No.	Yes.	No.
Additive	Yes.	No.	No.	Yes.	No.
Additive	Yes.	No.	No.	Yes.	No.
crystalline silica, respirable powder (<10 microns)	No.	No.	No.	No.	Yes.

SARA 313

<u>Chemical name</u> <u>CAS number</u>

Supplier notification : Umber 12713-03-0 7 - 13

2-butoxyethanol 111-76-2 0.5 - 1.5

United States Page: 16/17

Concentration

Product name BRP1580 Component A Low VOC Ureth Gloss

Section 15. Regulatory information

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: This product contains a chemical known to the State of California to cause cancer.

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 are not required on MSDSs 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 mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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

Health: 3 Flammability: 3 Instability: 0

: EHS

Date of previous issue : 12/29/2015

Organization that prepared

Key to abbreviations

the MSDS

: 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 73/78 = International Convention for the Prevention of Pollution From Ships.

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

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