## Section 1. Identification

| Product name | $:$ ROYAL BLUE URETHANE |
| :--- | :--- |
| Product code | : PCU50134 |
| Other means of <br> identification | $:$ Not available. |
| Product type | $:$ Powder. |

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


## 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).
: COMBUSTIBLE DUSTS
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION (Fertility) - Category 1B
TOXIC TO REPRODUCTION (Unborn child) - Category 1B
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: $63.8 \%$

GHS label elements
Hazard pictograms

Signal word
: Danger

| Product code PCU50134 Product name ROYAL BL | E URETHANE $\quad$ Date of issue 4 November 2016 Version 7.01 |
| :---: | :---: |
| Section 2. Hazards identification |  |
| Hazard statements | : May form combustible dust concentrations in air. May damage fertility or the unborn child. Suspected of causing cancer. |
| 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. |
| Response | : IF exposed or concerned: Get medical attention. |
| Storage | : Store locked up. |
| Disposal | Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Supplemental label elements | : Keep container tightly closed. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Sanding and grinding dusts may be harmful if inhaled. Prevent dust accumulation. Emits toxic fumes when heated. |
| Hazards not otherwise classified | : Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. |

## Section 3. Composition/information on ingredients

| Substance/mixture | : Mixture |
| :--- | :--- |
| Product name | $:$ ROYAL BLUE URETHANE |


| Ingredient name | $\%$ | CAS number |
| :--- | :--- | :--- |
| aluminium oxide | $\geq 1.0-\leq 5.0$ | $1344-28-1$ |
| barium sulfate | $\geq 1.0-\leq 5.0$ | $7727-43-7$ |
| Acrylic Resin | $\geq 1.0-\leq 5.0$ | Not available. |
| titanium dioxide | $\geq 1.0-\leq 5.0$ | $13463-67-7$ |
| dibutyltin dilaurate | $<1.0$ | $77-58-7$ |

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

Inhalation
: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
: 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.

## Section 4. First aid measures

| Skin contact | : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water <br> or use recognized skin cleanser. Do NOT use solvents or thinners. <br> Ingestion |
| :--- | :--- |
| : If swallowed, seek medical advice <br> person wearm and at rest. Do NOT induciately and shomiting. |  |

## Most important symptoms/effects, acute and delayed

## Potential acute health effects

| Eye contact | Exposure to airborne concentrations above sta may cause irritation of the eyes. |
| :---: | :---: |
| Inhalation | Exposure to airborne concentrations above sta may cause irritation of the nose, throat and lung |
| Skin contact | No known significant effects or critical hazards. |
| Ingestion | No known significant effects or critical hazards. |
| Over-exposure signs/symptoms |  |
| Eye contact | Adverse symptoms may include the following: irritation redness |
| Inhalation | Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations |
| Skin contact | Adverse symptoms may include the following: 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 | : In case of inhalation of decomposition products in a fire, symptoms may be delayed. <br> The exposed person may need to be kept under medical surveillance for 48 hours. |
| :--- | :--- |
| Specific treatments | : No specific treatment. |

## See toxicological information (Section 11)

## Section 5. Fire-fighting measures

## Extinguishing media

Suitable extinguishing : Use dry chemical powder.
media
Unsuitable extinguishing media

Specific hazards arising from the chemical
Hazardous thermal decomposition products
: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
: Fine dust clouds may form explosive mixtures with air.
: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides

Special protective actions for fire-fighters

Special protective equipment 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.
: 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 dust. 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 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 : Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

## Section 6. Accidental release measures

: 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. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. 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

Advice on general
occupational hygiene
: Put on appropriate personal protective equipment (see Section 8). 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 dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
: 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, : Do not store below the following temperature: $5^{\circ} \mathrm{C}\left(41^{\circ} \mathrm{F}\right)$. Store in accordance with including any incompatibilities
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. 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

Product code PCU50134

## Section 8. Exposure controls/personal protection

| Ingredient name | Exposure limits |
| :---: | :---: |
| aluminium oxide <br> barium sulfate <br> Acrylic Resin titanium dioxide <br> dibutyltin dilaurate | ACGIH TLV (United States). <br> TWA: $3 \mathrm{mg} / \mathrm{m}^{3}$ Form: Respirable <br> ACGIH TLV (United States, 3/2015). <br> TWA: $1 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Respirable fraction <br> OSHA PEL (United States, 2/2013). <br> TWA: $5 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Respirable fraction <br> TWA: $15 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Total dust ACGIH TLV (United States, 1/2007). <br> TWA: $10 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. <br> ACGIH TLV (United States, 3/2015). <br> TWA: $5 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Inhalable fraction <br> OSHA PEL (United States, 2/2013). <br> TWA: $5 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Respirable fraction <br> TWA: $15 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Total dust None. <br> OSHA PEL (United States, 2/2013). <br> TWA: $15 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Total dust ACGIH TLV (United States, 3/2015). <br> TWA: $10 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. <br> ACGIH TLV (United States, 3/2015). <br> Absorbed through skin. <br> STEL: $0.2 \mathrm{mg} / \mathrm{m}^{3}$, (as Sn$) 15$ minutes. <br> TWA: $0.1 \mathrm{mg} / \mathrm{m}^{3}$, (as Sn ) 8 hours. <br> OSHA PEL (United States, 2/2013). <br> TWA: $0.1 \mathrm{mg} / \mathrm{m}^{3}$, (as Sn ) 8 hours. <br> OSHA PEL (United States). <br> TWA: $0.1 \mathrm{mg} / \mathrm{m}^{3}$, (as Sn ) |
| Key to abbreviations |  |
| ACGIH = American Conference of Governmental Industrial Hygienists. | SR = Respiratory sensitization |
| C = Ceiling Limit | SS = Skin sensitization |
| F = Fume | STEL = Short term Exposure limit values |
| IPEL = Internal Permissible Exposure Limit | TD = Total dust |
| OSHA = Occupational Safety and Health Administration. | TLV = Threshold Limit Value |
| $\mathrm{R}=$ Respirable | TWA = Time Weighted Average |
| Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances |  |

## Consult local authorities for acceptable exposure limits.

Recommended monitoring : If this product contains ingredients with exposure limits, personal, workplace procedures 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.

## Section 8. Exposure controls/personal protection

Appropriate engineering controls

## Environmental exposure controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, 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.
: 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

: 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.

Skin protection Hand protection

Body protection

Other skin protection

## Respiratory protection

: 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.
: 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.
: 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 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

## Color

Odor
Odor threshold
pH
Melting point
Boiling point
Flash point
: Solid.
: Not available.
: Not available.
: Not available.
: Not available.
: Not available.
: Not available.
: Closed cup: Not applicable.

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Material supports combustion.
: Yes.
: Not available.
Decomposition temperature : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.
(flammable) limits
Evaporation rate : 0 (butyl acetate =1)
Vapor pressure $: 0 \mathrm{kPa}(0 \mathrm{~mm} \mathrm{Hg})$ [room temperature]
Vapor density : Not available.
Relative density : 1.27
Density (lbs / gal ) : 10.6
Solubility : Insoluble in the following materials: cold water.
Partition coefficient: n - : Not available.
octanol/water
Viscosity : Kinematic ( $40^{\circ} \mathrm{C}\left(104^{\circ} \mathrm{F}\right)$ ): Not applicable.
Volatility
\% Solid. (w/w)
: 0\% (v/v), 0\% (w/w)
: 100

## Section 10. Stability and reactivity

## Reactivity

Chemical stability : The product is stable.

Possibility of hazardous reactions

## Conditions to avoid

Incompatible materials

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

## Section 11. Toxicological information

## Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
| :--- | :--- | :--- | :--- | :--- |
| titanium dioxide <br> dibutyltin dilaurate | LD50 Oral | Rat <br> Rat | $>11 \mathrm{~g} / \mathrm{kg}$ | - |
|  | LD50 Oral | $175 \mathrm{mg} / \mathrm{kg}$ | - |  |

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 | - | $2 B$ | - |

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 |
| :--- | :--- | :--- |
| Acrylic Resin <br> dibutyltin dilaurate | Category 3 <br> Category 1 |

## Specific target organ toxicity (repeated exposure)

| Name | Category |
| :--- | :--- |
| dibutyltin dilaurate | Category 1 |

## Section 11. Toxicological information

## Target organs

: Contains material which may cause damage to the following organs: lungs, liver, upper respiratory tract, skin, eyes, central nervous system (CNS).

## Aspiration hazard

Not available.
Information on the likely routes of exposure

## Potential acute health effects

Eye contact : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
Over-exposure signs/symptoms
Eye contact : Adverse symptoms may include the following:
irritation
redness
Inhalation : Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact : Adverse symptoms may include the following: 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. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. 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

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## Section 11. Toxicological information

General<br>Carcinogenicity<br>Mutagenicity<br>Teratogenicity<br>Developmental effects<br>Fertility effects<br>Not available.

: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
: No known significant effects or critical hazards.
: May damage the unborn child.
: No known significant effects or critical hazards.
: May damage fertility.

## Section 12. Ecological information

## Toxicity

| Product/ingredient name | Result | Species | Exposure |
| :--- | :--- | :--- | :--- |
| titanium dioxide | Acute LC50 $>100 \mathrm{mg} / \mathrm{F}$ Fresh water | Daphnia - Daphnia magna | 48 hours |

## Persistence and degradability

Not available.

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
| :--- | :--- | :--- | :--- |
| dibutyltin dilaurate | 3.12 | - | low |

## Section 13. Disposal considerations

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Disposal should be in accordance with applicable regional, national and local laws and regulations.
Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

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## 14. Transport information

|  | DOT | IMDG | IATA |
| :--- | :--- | :--- | :--- |
| UN number | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping <br> name | - | - | - |
| Transport hazard class <br> (es) | - | - | - |
| Packing group | - | - | - |
| Environmental hazards <br> Marine pollutant <br> substances | No. <br> Not applicable. | No. <br> Not applicable. | No. <br> 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 :

SARA 302/304
SARA 304 RQ : Not applicable.

## Composition/information on ingredients

No products were found.

## SARA 311/312

## Classification <br> : Fire hazard <br> Delayed (chronic) health hazard

## Composition/information on ingredients

| Name | Fire <br> hazard | Sudden <br> release of <br> pressure | Reactive | lmmediate <br> (acute) <br> health <br> hazard | Delayed <br> (chronic) <br> health <br> hazard |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Acrylic Resin <br> titanium dioxide <br> dibutyltin dilaurate | Yes. <br> No. <br> No. | No. <br> No. <br> No. | No. <br> No. <br> No. | Yes. <br> No. <br> Yes. | No. <br> Yes. <br> Yes. |

## Section 15. Regulatory information

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

## Section 16. Other information

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

Health : 2 * Flammability : 0 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 SDSs 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 : 2 Flammability : 0 Instability : 0
Date of previous issue : 10/3/2016
Organization that prepared : EHS
the MSDS
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)
UN = United Nations
$\nabla$ 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.

