SAFETY DATA SHEET



Date of issue 24 November 2019

Version 3.01

Section 1. Product and company identification

| Product name |
|-------------------------------|
| Product code |
| Other means of identification |
| Product type |

- : AMERCOAT 138 BR AMARELO RAL 1021
- : AT138BR-74L.20
- : Not available.
- : Liquid.

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

Identified uses

Coating. Paints. Painting-related materials.

| Uses advised against | Reason |
|----------------------|--------|
| Not applicable. | |

Supplier's details: Supplier : PPG Industrial do Brasil – Tintas e Vernizes Ltda Via Anhanguera KM 106, Bairro Sao Judas Tadeu Sumare / SP, Brasil 55 19 2103-6000 (Recepção e Portaria) e-mail address of person responsible for this SDS : fispq@ppg.com

| Emergency telephone number | : | 0800 707 1767 / 0800 707 7022 – Empresa Suatrans Cotec |
|----------------------------|---|--|
| | | 0800 14 8110 – CEATOX - Centro de Assistência Toxicológica |

Section 2. Hazards identification

| Classification of the | : FLAMMABLE LIQUIDS - Category 3 |
|-----------------------|--|
| substance or mixture | ACUTE TOXICITY (oral) - Category 5 |
| | ACUTE TOXICITY (dermal) - Category 5 |
| | ACUTE TOXICITY (inhalation) - Category 4 |
| | SKIN IRRITATION - Category 2 |
| | EYE IRRITATION - Category 2A |
| | SKIN SENSITIZATION - Category 1 |
| | CARCINOGENICITY - Category 1A |
| | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) |
| | - Category 1 |
| Target organs | : Contains material which causes damage to the following organs: liver, spleen, brain, |
| | bone marrow. |
| | Contains material which may cause damage to the following organs: kidneys, lungs, |
| | the nervous system, heart, upper respiratory tract, immune system, skin, central |
| | nervous system (CNS), ears, eye, lens or cornea. |
| | |

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| • • • | |

| Product name | AMERCOAT 138 BR AMARELO RAL 1021 |
|-------------------|---|
| Section 2. H | lazards identification |
| | ✓ercentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 60.4% (Oral), 65.4% (Dermal), 85% (Inhalation) |
| | Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 85.3% |
| | This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). |
| GHS label element | <u>s</u> |
| Hazard pictogran | |
| Signal word | : Danger |
| Hazard statemen | ts : Flammable liquid and vapor. Harmful if inhaled. May be harmful if swallowed or in contact with skin. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May cause cancer. Causes damage to organs through prolonged or repeated exposure. (hearing organs) |
| Precautionary sta | atements |
| 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. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. |
| Response | : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. 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. Call a POISON CENTER or physician if you feel unwell. IF Since shower. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. |
| Storage | : Store locked up. Store in a well-ventilated place. Keep cool. |
| Disposal | : Dispose of contents and container in accordance with all local, regional, national and international regulations. |

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| Code | AT138BR-74L.2 | D Date of iss | sue 24 Novembe | r 2019 | Version | 3.01 |
|-------------|---------------|-------------------------------|----------------|--------|---------|------|
| Product nam | e AME | RCOAT 138 BR AMARELO RAL 1021 | | | | |

Section 2. Hazards identification

result in classification

Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

| Substance/mixture | : Mixture |
|-------------------|------------------|
| Other means of | : Not available. |
| identification | |

CAS number/other identifiers

| Ingredient name | % | CAS number |
|---|------------|------------|
| rystalline silica, respirable powder (<10 microns) | 60 - 100 | 14808-60-7 |
| Epoxy Resin (700 <mw<=1100)< td=""><td>12.5 - <15</td><td>25036-25-3</td></mw<=1100)<> | 12.5 - <15 | 25036-25-3 |
| xylene | 7 - <10 | 1330-20-7 |
| 1-methoxy-2-propanol | 2 - <3 | 107-98-2 |
| barium sulfate | 2 - <3 | 7727-43-7 |
| ethylbenzene | 1 - <2 | 100-41-4 |
| titanium dioxide | 1 - <2 | 13463-67-7 |
| 4-methylpentan-2-one | 0.5 - <1 | 108-10-1 |

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.

SUB codes represent substances without registered CAS Numbers.

Section 4. First aid measures

| Description of necessary first | at 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. |
| Indication of immediate med | cal attention and special treatment needed, if necessary |
| Notes to physician Specific treatments | 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. 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. |
| Potential acute health effects | 2 |

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|-------------|---------|----------------------------|---------------|------------------|---------|------|
| Product nam | ie | AMERCOAT 138 BR AMARELO RA | AL 1021 | | | |

Section 4. First aid measures

| Eye contact | : Causes serious eye irritation. |
|--------------|--|
| Inhalation | : Harmful if inhaled. |
| Skin contact | : May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion | : May be harmful if swallowed. |

See toxicological information (Section 11)

Section 5. Fire-fighting measures

| Extinguishing media | |
|---|--|
| Suitable extinguishing media | : Use dry chemical, CO ₂ , water spray (fog) or foam. |
| Unsuitable extinguishing media | : Do not use water jet. |
| Specific hazards arising from the chemical | : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. |
| Hazardous thermal decomposition products | : Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides 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, protect | :tiv | re 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

| Section 6. Accidental release measures | | |
|--|--|--|
| Small spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. | |
| Large spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. | |

Section 7. Handling and storage

| Precautions for safe handling | : Put on appropriate personal protective equipment (see Section 8). 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. Do not ingest. Avoid contact with eyes, skin and clothing. 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 non-sparking tools. 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. |
|--|--|
| 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. See Section 10 for incompatible materials before handling or use. |

Section 8. Exposure controls/personal protection

Control parameters Occupational exposure limits

Version

Section 8. Exposure controls/personal protection

| Ingredient name | | Exposure limits | | |
|---|---|---|--|--|
| orystalline silica, respirable powder (<10 microns) | | ACGIH TLV (United States, 3/2019). TWA: 0.025 mg/m ³ 8 hours. Form: | | |
| xylene | | Respirable Minsitry of Labor and Employement (Brazil, 11/2001). TWA: 340 mg/m ³ 8 hours. | | |
| 1-methoxy-2-propanol | | TWA: 78 ppm 8 hours. ACGIH TLV (United States, 3/2019). STEL: 369 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 184 mg/m ³ 8 hours. | | |
| barium sulfate | | TWA: 50 ppm 8 hours. ACGIH TLV (United States, 3/2019). TWA: 5 mg/m ³ 8 hours. Form: Inhalable | | |
| ethylbenzene | | fraction Minsitry of Labor and Employement (Brazil, 11/2001). TWA: 340 mg/m ³ 8 hours. | | |
| titanium dioxide | | TWA: 78 ppm 8 hours. ACGIH TLV (United States, 3/2019). TWA: 10 mg/m ³ 8 hours. | | |
| 4-methylpentan-2-one | | ACGIH TLV (United States, 3/2019). STEL: 75 ppm 15 minutes. TWA: 20 ppm 8 hours. | | |
| Recommended monitoring procedures | atmosphere or biological moni of the ventilation or other contr protective equipment. Referer standards. Reference to natio | ents with exposure limits, personal, workplace itoring may be required to determine the effectiveness of measures and/or the necessity to use respiratory nee should be made to appropriate monitoring nal guidance documents for methods for the ibstances 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 v they comply with the requirement | vork process equipment should be checked to ensure ents of environmental protection legislation. In some or engineering modifications to the process equipment | | |
| ndividual protection measure | <u>es</u> | | | |
| Hygiene measures | eating, smoking and using the Appropriate techniques should Contaminated work clothing sh contaminated clothing before r | ce thoroughly after handling chemical products, before lavatory and at the end of the working period. I be used to remove potentially contaminated clothing. hould not be allowed out of the workplace. Wash reusing. Ensure that eyewash stations and safety | | |
| Eye protection Skin protection | showers are close to the works : Chemical splash goggles. | | | |

| Section 8. Expos | sure 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 | : butyl rubber |
| Body protection Other skin protection | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Appropriate footwear and any additional skin protection measures should be selected |
| | based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. |

Section 9. Physical and chemical properties

| <u>Appearance</u> | |
|--|---|
| Physical state | : Liquid. |
| Color | : Not available. |
| Odor | : Not available. |
| рН | : Not available. |
| Melting point | : Not available. |
| Boiling point | : >37.78°C (>100°F) |
| Flash point | : Closed cup: 26°C (78.8°F) |
| Evaporation rate | : Not available. |
| Flammability (solid, gas) | : Not available. |
| Lower and upper explosive (flammable) limits | : Not available. |
| Vapor pressure | : Not available. |
| Vapor density | : Not available. |
| Relative density | : 1.85 |
| Solubility | : Insoluble in the following materials: cold water. |
| Partition coefficient: n- octanol/water | : Not available. |
| Auto-ignition temperature | : Not available. |
| Decomposition temperature | : Not available. |
| Viscosity | : Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt) |
| Viscosity | : 60 - 100 s (ISO 6mm) |
| , | |

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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. |
| 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 |
| ₽poxy Resin (700 <mw <=1100)</mw | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >2000 mg/kg | - |
| xylene | LD50 Dermal | Rabbit | >1.7 g/kg | - |
| | LD50 Oral | Rat | 4.3 g/kg | - |
| 1-methoxy-2-propanol | LD50 Dermal | Rabbit | 13 g/kg | - |
| | LD50 Oral | Rat | 5.2 g/kg | - |
| barium sulfate | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >5000 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 | - |
| 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 | - |
| 4-methylpentan-2-one | LC50 Inhalation Vapor | Rat | 12.3 mg/l | 4 hours |
| | LD50 Oral | Rat | 2.08 g/kg | - |

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|---------|-------|--------------------|-------------|
| x ylene | Skin - Moderate irritant | Rabbit | | 24 hours 500 mg | - |
| Conclusion/Summary | 1 | | • | • | |

| Skin | There are no data available on the mixture itself. |
|----------------|--|
| Eves | : There are no data available on the mixture itself. |
| Respiratory | There are no data available on the mixture itself. |
| Sensitization | |
| Not available. | |
| | |

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| Conclusion/Summary | |
|--------------------|--|
| Skin | : There are no data available on the mixture itself. |
| Respiratory | : There are no data available on the mixture itself. |
| Mutagenicity | |
| Not available. | |

Conclusion/Summary

Carcinogenicity

Not available.

Conclusion/Summary

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

Date of issue

Classification

| Product/ingredient name | OSHA | IARC | NTP |
|--|------|------|---------------------------------|
| vystalline silica, respirable powder (<10 microns) | - | 1 | Known to be a human carcinogen. |
| xylene | - | 3 | - |
| ethylbenzene | - | 2B | - |
| titanium dioxide | - | 2B | - |
| 4-methylpentan-2-one | - | 2B | - |

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

Not available.

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

Teratogenicity

Not available.

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

Specific target organ toxicity (single exposure)

| Category | Route of exposure | Target organs |
|--------------------------|------------------------------------|--|
| Category 3 | Not applicable. | Respiratory tract irritation |
| Category 3 Category 3 | Not applicable. Not applicable. | Narcotic effects Respiratory tract irritation |
| | Category 3 Category 3 | exposure Category 3 Not applicable. Category 3 Not applicable. |

Specific target organ toxicity (repeated exposure)

| Name | | Route of exposure | Target organs |
|------|------|----------------------|----------------------------------|
| | - 55 | | Not determined hearing organs |

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Section 11. Toxicological information

Target organs

: Contains material which causes damage to the following organs: liver, spleen, brain, bone marrow. Contains material which may cause damage to the following organs: kidneys, lungs,

the nervous system, heart, upper respiratory tract, immune system, skin, central nervous system (CNS), ears, eye, lens or cornea.

Aspiration hazard

| Name | Result |
|--------------|--|
| ethylbenzene | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 2 |

| Information on the likely routes of exposure | 1 | Not available. |
|---|-----|---|
| Potential acute health effects | | |
| Eye contact | 1 | Causes serious eye irritation. |
| Inhalation | 1 | Harmful if inhaled. |
| Skin contact | : | May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion | : | May be harmful if swallowed. |
| Symptoms related to the physical | sic | al, chemical and toxicological characteristics |
| Eye contact | : | Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | 1 | No specific data. |
| Skin contact | : | Adverse symptoms may include the following: irritation redness dryness cracking |
| Ingestion | : | No specific data. |
| Delayed and immediate effect | ts | and also chronic effects from short and long term exposure |
| Conclusion/Summary | : | There are no data available on the mixture itself. 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 |

silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous

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Section 11. Toxicological information

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| | | 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. |
| <u>Short term exposure</u> | | |
| Potential immediate effects | ; | There are no data available on the mixture itself. |
| Potential delayed effects | : | There are no data available on the mixture itself. |
| Long term exposure | | |
| Potential immediate effects | : | There are no data available on the mixture itself. |
| Potential delayed effects | : | There are no data available on the mixture itself. |
| Potential chronic health eff | ects | <u>></u> |
| Not available. | | |
| General | : | Causes damage to organs through prolonged or repeated exposure. 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 | : | May cause cancer. Risk of cancer depends on duration and level of exposure. |
| Mutagenicity | : | No known significant effects or critical hazards. |
| Teratogenicity | : | No known significant effects or critical hazards. |
| Developmental effects | : | No known significant effects or critical hazards. |
| Fertility effects | : | No known significant effects or critical hazards. |
| | | |

Numerical measures of toxicity

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--|------------------|-------------------|--------------------------------|----------------------------------|--|
| MERCOAT 138 BR AMARELO RAL 1021 | 4968 | 2448.3 | N/A | 17.8 | 2.3 |
| Epoxy Resin (700 <mw<=1100)< td=""><td>2500</td><td>2500</td><td>N/A</td><td>N/A</td><td>N/A</td></mw<=1100)<> | 2500 | 2500 | N/A | N/A | N/A |
| xylene | 4300 | 1100 | N/A | 11 | 1.5 |
| 1-methoxy-2-propanol | 5200 | 13000 | N/A | N/A | N/A |
| barium sulfate | N/A | 2500 | N/A | N/A | N/A |
| ethylbenzene | 3500 | 17800 | N/A | 17.8 | 1.5 |
| 4-methylpentan-2-one | 2080 | N/A | N/A | 12.3 | 1.5 |

Other information

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Code AT138BR-74L.20 Product name AMER

Section 11. Toxicological information

Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

Section 12. Ecological information

Ecotoxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|--|-------------------------|----------|
| 1-methoxy-2-propanol | Acute LC50 23300 mg/l | Daphnia | 48 hours |
| | Acute LC50 >4500 mg/l Fresh water | Fish | 96 hours |
| ethylbenzene | Acute LC50 150 to 200 mg/l Fresh water | Fish | 96 hours |
| titanium dioxide | Acute LC50 >100 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |

Persistence/degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|--------------------|
| xylene ethylbenzene | - | - | Readily Readily |
| etriyiberizerie | - | - | Readily |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-------------|-----------|
| x /lene | 3.16 | 7.4 to 18.5 | low |
| ethylbenzene | 3.15 | 79.43 | low |
| 4-methylpentan-2-one | 1.31 | - | low |

Mobility in soil

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

Other adverse effects : No known significant effects or critical hazards.

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

| English (US) | Brazil | 12/14 |
|--------------|--------|-------|
|--------------|--------|-------|

Section 13. Disposal considerations

sewers.

Section 14. Transport information

| | Brazil (ANTT) | IMDG | ΙΑΤΑ |
|--------------------------------|-----------------|-----------------|-----------------|
| 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. |

Additional information

| Brazil | : None identified. |
|-------------|--------------------|
| Risk number | : 30 |
| 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

Safety, health and environmental regulations specific for the product

: No known specific national and/or regional regulations applicable to this product (including its ingredients).

Section 16. Other information

| Hi | sto | ory |
|----|-----|-----|
| - | | |

| Date of previous issue | : 9/14/2019 |
|------------------------|--|
| Version | : 3.01 |
| Prepared by | : EHS |
| Key to abbreviations | ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association |

| English (US) | Brazil | |
|--------------|--------|--|
| | | |

Section 16. Other information

| | 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) |
| | RID = The Regulations concerning the International Carriage of Dangerous Goods by |
| | Rail |
| | UN = United Nations |
| References : | ABNT NBR 14725-4: 2014 |
| | ANTT - National Land Transportation Agency |
| 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.