



Date of issue/Date of revision 1 April 2020

Version 7.01

| Section 1. Identification | | |
|--|--|--|
| Product code | : 00332412 | |
| Product name | : SIGMADUR 550 BASE RAL 9005 | |
| Other means of identification | : Not available. | |
| Product type | : Liquid. | |
| Relevant identified uses o | of the substance or mixture and uses advised against | |
| Product use | : Coating. Paint. Painting-related materials. | |
| Supplier's details | : PPG Coatings (Thailand) Co., Ltd. 15 Rama 9 Road, Kwaeng Huamark, Khet Bangkapi, Bangkok 10240 Thailand T: 662-319-4190 #224 F: 662-319-4189 | |
| Emergency telephone number (with hours of operation) | : CHEMTREC 001-800-13-203-9987 (CCN 17704) | |

Section 2. Hazards identification

| Classification of the | : FLAMMABLE LIQUIDS - Category 3 |
|-----------------------|--|
| substance or mixture | ACUTE TOXICITY (dermal) - Category 5 |
| | ACUTE TOXICITY (inhalation) - Category 4 |
| | SKIN CORROSION/IRRITATION - Category 2 |
| | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A |
| | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract |
| | irritation) - Category 3 |
| | AQUATIC HAZARD (ACUTE) - Category 3 |
| | Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 38% (Inhalation) |
| | Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 61.3% |

GHS label elements

Section 2. Hazards identification

| Hazard pictograms | |
|---|--|
| Signal word | : Warning |
| Hazard statements | Flammable liquid and vapor. Harmful if inhaled. May be harmful in contact with skin. Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. Harmful to aquatic life. |
| Precautionary statements | |
| Prevention | : Wear protective gloves. Wear eye or face protection. 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. Avoid release to the environment. Avoid breathing vapor. Wash hands thoroughly after handling. |
| Response | : IF INHALED: Remove victim to fresh air and keep at rest in a position 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. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. |
| Storage | : Store locked up. Store in a well-ventilated place. Keep cool. |
| Disposal | : Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Other hazards which do not result in classification | : Prolonged or repeated contact may dry skin and cause irritation. |

Section 3. Composition/information on ingredients

| Substance/mixture | : Mixture | | |
|-------------------|-----------|--|--|
| | | | |

| CAS number/other identifiers | | |
|------------------------------|---|-----------------|
| CAS number | : | Not applicable. |

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Section 3. Composition/information on ingredients

| Ingredient name | % | CAS number |
|---|-----------|------------|
| parium sulfate | 25- <50 | 7727-43-7 |
| xylene | 20- <25 | 1330-20-7 |
| n-butyl acetate | 5- <10 | 123-86-4 |
| ethylbenzene | 3 - <5 | 100-41-4 |
| carbon black, respirable powder | 1- <3 | 1333-86-4 |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | 0.1- <0.3 | 41556-26-7 |
| toluene | 0.1- <0.3 | 108-88-3 |

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 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

| most important symptoms/enects, acute and delayed | | |
|---|---|--|
| Potential acute health eff | ects | |
| Eye contact | : Causes serious eye irritation. | |
| Inhalation | : Harmful if inhaled. May cause respiratory irritation. | |
| Skin contact | : May be harmful in contact with skin. 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. | |

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Section 4. First aid measures

| Indication of immediate medical attention and special treatment needed, if necessary | | |
|--|---|--|
| Notes to physician | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. | |
| Specific treatments | : No specific treatment. | |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. | |

See toxicological information (Section 11)

Section 5. Fire-fighting measures

| - | |
|---|---|
| Extinguishing media | |
| Suitable extinguishing media | : 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. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| Hazardous thermal decomposition products | : Decomposition products may include the following materials: carbon 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

| 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. |
|--------------------------------|--|

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Section 6. Accidental release measures

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

Section 7. Handling and storage

Precautions for safe : Put on appropriate personal protective equipment (see Section 8). Eating, drinking handling 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.

Section 7. Handling and storage

| Conditions for safe storage, | |
|------------------------------|---|
| including any | accordance with local regulations. Store in a segregated and approved area. Store |
| incompatibilities | 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

| Ingredient name | Exposure limits |
|---------------------------------|--|
| parium sulfate | Ministry of Labor (Thailand, 8/2017). |
| | TWA: 5 mg/m ³ 8 hours. Form: Respirable |
| | dust |
| | TWA: 15 mg/m ³ 8 hours. Form: inhalable |
| | dust |
| xylene | Ministry of Labor (Thailand, 8/2017). |
| | TWA: 100 ppm 8 hours. |
| n-butyl acetate | ACGIH TLV (United States, 3/2019). |
| | STEL: 150 ppm 15 minutes. |
| | TWA: 50 ppm 8 hours. |
| ethylbenzene | Ministry of Labor (Thailand, 8/2017). |
| | TWA: 100 ppm 8 hours. |
| carbon black, respirable powder | ACGIH TLV (United States, 3/2019). |
| | TWA: 3 mg/m ³ 8 hours. Form: Inhalable |
| | fraction |
| toluene | Ministry of Labor (Thailand, 8/2017). |
| | CEIL: 300 ppm |
| | STEL: 500 ppm 10 minutes. |
| | TWA: 200 ppm 8 hours. |
| - · · | ins ingredients with exposure limits, personal, workplace gical monitoring may be required to determine the effectiveness |
| of the ventilation or | other control measures and/or the necessity to use respiratory |
| | nt. Reference should be made to appropriate monitoring |
| | ce to national guidance documents for methods for the |
| determination of ha | zardous 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.

Section 8. Exposure controls/personal protection

| - | | |
|------------------------------------|----------|--|
| 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 | <u>s</u> | |
| 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 protection | : | Chemical splash goggles. |
| Skin protection | | |
| Hand protection | : | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
| Gloves | ÷ | For prolonged or repeated handling, use the following type of gloves: |
| | | Not recommended: nitrile rubber Recommended: neoprene, PVC, natural rubber (latex), polyvinyl alcohol (PVA), Viton® |
| Body protection | : | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. |
| Other skin protection | : | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| 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

| A | n | De | e. | ra | n | CE | ż |
|-----|---|----|----|-----|---|----|---|
| / Y | | μv | -4 | 1 u | | | - |

| Appearance | | |
|--|--|----------|
| Physical state | Liquid. | |
| Color | Black. | |
| Odor | Not available. | |
| Odor threshold | Not available. | |
| рН | insoluble in water. | |
| Melting point | May start to solidify at the following temperature: -94.9°C (-138.8°F) This is base data for the following ingredient: ethylbenzene. Weighted average: -95.61°C (-140.1°F) | ed on |
| Boiling point | >37.78°C (>100°F) | |
| Flash point | Closed cup: 24°C (75.2°F) | |
| Evaporation rate | Highest known value: 1 (n-butyl acetate) Weighted average: 0.82compared wit butyl acetate | ĥ |
| Flammability (solid, gas) | liquid | |
| Lower and upper explosive (flammable) limits | Greatest known range: Lower: 1.4% Upper: 7.6% (n-butyl acetate) | |
| Vapor pressure | Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate). Weigh average: 1.04 kPa (7.8 mm Hg) (at 20°C) | ited |
| Vapor density | Highest known value: 4 (Air = 1) (n-butyl acetate). Weighted average: 3.75 (A | ۸ir = 1) |
| Relative density | 1.35 | |
| Bulk Density (g/cm³) | 1.34 | |
| Solubility | Insoluble in the following materials: cold water. | |
| Partition coefficient: n- octanol/water | Not applicable. | |
| Auto-ignition temperature | Lowest known value: 415°C (779°F) (n-butyl acetate). | |
| Decomposition temperature | Stable under recommended storage and handling conditions (see Section 7). | |
| Viscosity | Kinematic (40°C): >0.21 cm²/s | |
| | | |

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. |

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Section 10. Stability and reactivity

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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|-----------------------|---------|-------------|----------|
| barium sulfate | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| xylene | LD50 Dermal | Rabbit | >1.7 g/kg | - |
| | LD50 Oral | Rat | 4.3 g/kg | - |
| n-butyl acetate | LC50 Inhalation Vapor | Rat | >21.1 mg/l | 4 hours |
| | LC50 Inhalation Vapor | Rat | 2000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | >17600 mg/ | - |
| | | | kg | |
| | LD50 Oral | Rat | 10.768 g/kg | - |
| 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 | - |
| carbon black, respirable powder | LD50 Dermal | Rabbit | >3 g/kg | - |
| | LD50 Oral | Rat | >15400 mg/ | - |
| | | | kg | |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | LD50 Oral | Rat | 3.125 g/kg | - |
| toluene | LC50 Inhalation Vapor | Rat | 49 g/m³ | 4 hours |
| | LD50 Dermal | Rabbit | 8.39 g/kg | - |
| | LD50 Oral | Rat | 5580 mg/kg | - |

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

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|-------------------------------|----------------|---------|--------------------|-------------|
| xylene | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |
| Conclusion/Summary | | | | | 1 |
| 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 Reproductive toxicity | : There are no data available | on the mixture | itself. | | |

Section 11. Toxicological information

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

Teratogenicity

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

Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|-----------------|------------|----------------------|------------------------------|
| xylene | Category 3 | Not applicable. | Respiratory tract irritation |
| n-butyl acetate | Category 3 | Not applicable. | Narcotic effects |
| toluene | Category 3 | Not applicable. | Narcotic effects |

Specific target organ toxicity (repeated exposure)

| Name | | Route of exposure | Target organs |
|------|--------------------------|----------------------|----------------------------------|
| | Category 2 Category 2 | | hearing organs Not determined |

Aspiration hazard

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

Information on the likely : Not available. routes of exposure

Potential acute health effects

| Eye contact | : Causes serious eye irritation. |
|--------------|---|
| Inhalation | : Harmful if inhaled. May cause respiratory irritation. |
| Skin contact | : May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. |
| Ingestion | : No known significant effects or critical hazards. |

Symptoms related to the physical, chemical and toxicological characteristics

| 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 | |

Section 11. Toxicological information

Ingestion

: No specific data.

| Delayed and immediate effect | ts and also chronic effects from short and long term exposure | | | |
|----------------------------------|--|--|--|--|
| Short term exposure | | | | |
| Potential immediate effects | : Not available. | | | |
| Potential delayed effects | : Not available. | | | |
| Long term exposure | | | | |
| Potential immediate effects | : Not available. | | | |
| Potential delayed effects | : Not available. | | | |
| Potential chronic health effects | | | | |
| General | : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. | | | |
| Carcinogenicity | : No known significant effects or critical hazards. | | | |
| 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 |
|------------------------------|----------------|
| Øral | 15090.69 mg/kg |
| Dermal | 2747.99 mg/kg |
| Inhalation (vapors) | 26.32 mg/l |
| Inhalation (dusts and mists) | 3.38 mg/l |

Other information

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

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. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

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

Section 11. Toxicological information

short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|---|--------------|----------------------|
| p -butyl acetate ethylbenzene | Acute LC50 18 mg/l Acute LC50 150 to 200 mg/l Fresh water | Fish Fish | 96 hours 96 hours |
| Conclusion/Commons | . There are no data available on the | | • |

Conclusion/Summary

: There are no data available on the mixture itself.

Persistence/degradability

| Product/ingredient name | Test | Result | | Dose | Inoculum |
|--|-----------------------|---------------------|-------------|------|--|
| n-butyl acetate | TEPA and OECD 301D | 83 % - Readily - 28 | days | - | - |
| Conclusion/Summary : There are no data available on the mixture itself. | | | | | |
| Product/ingredient name | Aquatic half-life | | Photolysis | S | Biodegradability |
| xylene n-butyl acetate ethylbenzene toluene | - - - - | | - - - | | Readily Readily Readily Readily |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-------------|-----------|
| xylene | 3.16 | 7.4 to 18.5 | low |
| n-butyl acetate | 1.78 | - | low |
| ethylbenzene | 3.15 | 79.43 | low |
| toluene | 2.73 | 8.32 | low |

Mobility in soil

Soil/water partition coefficient (K_{oc}) Other adverse effects

- : Not available.
- : 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 sewers.

Section 14. Transport information

| | UN | 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

- UN : 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

: Listed

Safety, health and environmental regulations specific for the product

Harmful Chemicals List

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

International regulations

Montreal Protocol

Not listed.

112.4

Section 16. Other information

| <u>History</u> | |
|--------------------------------|--|
| Date of issue/Date of revision | : 1 April 2020 |
| Date of previous issue | : 2/22/2020 |
| Version | : 7.01 |
| 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 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 |

Indicates information that has changed from previously issued version.

Notice to reader

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.