SAFETY DATA SHEET



Date of issue/Date of revision 18 May 2021 Version 5

Section 1. Identification of the substance/mixture and of the company/undertaking

| Product code | : 00247442 |
|----------------------------------|-----------------------------|
| Product name | : SIGMAFAST 210 BASE BASE L |
| Other means of identification | : Not available. |
| Product type | : Liquid. |

| Relevant identified uses of the substance or mixture and uses advised against | | | |
|---|--|--|--|
| Product use | Coating. Professional applications, Used by spraying. | | |
| Uses advised against | : Product is not intended, labelled or packaged for consumer use. | | |
| 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 substance or mixture | FLAMMABLE LIQUIDS - Category 3 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 2 AQUATIC HAZARD (LONG-TERM) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 14.4% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 25.9% |
|---|--|
| | |

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the

Section 2. Hazards identification

| GHS label elements | |
|---|--|
| Hazard pictograms | |
| Signal word | : Warning |
| Hazard statements | Fammable liquid and vapor. May be harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Toxic to aquatic life with long lasting effects. |
| Precautionary statements | |
| Prevention | : Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling. |
| Response | : Collect spillage. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Take off contaminated clothing and wash before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation occurs: Get medical advice or 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 advice or attention. |
| Storage | : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. |
| Disposal | : Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Other hazards which do not result in classification | : P rolonged or repeated contact may dry skin and cause irritation. |
| Section 3. Compo | sition/information on ingredients |
| Substance/mixture | : Mixture |
| CAS number/other identifier | |
| CAS number | : Not applicable. |

aquatic environment: 48.9%

CAS number

: Not applicable.

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Product name SIGMAFAST 210 BASE BASE L

Section 3. Composition/information on ingredients

| Ingredient name | % | CAS number |
|---|-----------|-------------|
| xylene | 20- <25 | 1330-20-7 |
| barium sulfate | 10- <20 | 7727-43-7 |
| trizinc bis(orthophosphate) | 5- <10 | 7779-90-0 |
| ethylbenzene | 3 - <5 | 100-41-4 |
| Talc, not containing asbestiform fibres | 3 - <5 | 14807-96-6 |
| 12-hydroxyoctadecanoic acid, reaction products with | 1- <3 | 220926-97-6 |
| 1,3-benzenedimethanamine and hexamethylenediamine | | |
| zinc oxide | 0.1- <0.3 | 1314-13-2 |
| 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 necess | ary 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

| noot important oymptomo/ene | |
|--------------------------------|---|
| 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. |
| Over-exposure signs/sympton | <u>ns</u> |
| 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. |

Section 4. First aid measures

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. The exposed person may need to be kept under medical surveillance for 48 hours. |
|----------------------------|---|
| Specific treatments | : No specific treatment. |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

See toxicological information (Section 11)

Section 5. Fire-fighting measures

| Extinguishing media | |
|--|---|
| Suitable extinguishing media | : Use dry chemical, 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 toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| Hazardous thermal decomposition products | : Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides phosphorus 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, protective equipment and emergency procedures

| For non-emergency personnel | : | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
|--------------------------------|------|---|
| For emergency responders | : | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| | | 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. Collect spillage. |
| Methods and materials for co | onta | ainment 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 |

Section 7. Handling and storage

Precautions for safe handling : Fut on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities
 Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. 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 |
|---|--|
| xylene | Ministry of Labor (Thailand, 8/2017). |
| | TWA: 100 ppm 8 hours. |
| barium 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 |
| ethylbenzene | Ministry of Labor (Thailand, 8/2017). |
| | TWA: 100 ppm 8 hours. |
| Talc , not containing asbestiform fibres | Ministry of Labor (Thailand, 8/2017). |
| - | TWA: 0.1 fibres/1 cc 8 hours. Form: |
| | Respirable dust |
| | TWA: 2 mg/m ³ 8 hours. Form: Respirable |
| | dust |
| 12-hydroxyoctadecanoic acid, reaction products with | ACGIH TLV (United States). |
| 1,3-benzenedimethanamine and hexamethylenediamine | TWA: 10 mg/m ³ Form: Inhalable particle |
| | TWA: 3 mg/m³, (inhalable dust) Form: |
| | Respirable particle |
| zinc oxide | Ministry of Labor (Thailand, 8/2017). |
| | TWA: 5 mg/m ³ 8 hours. Form: Fume |
| | TWA: 5 mg/m ³ 8 hours. Form: Respirable |
| | dust |
| | TWA: 15 mg/m ³ 8 hours. Form: inhalable |
| | dust |
| toluene | Ministry of Labor (Thailand, 8/2017). |
| | CEIL: 300 ppm |
| | STEL: 500 ppm 10 minutes. |
| | TWA: 200 ppm 8 hours. |

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.

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Section 8. Exposure controls/personal protection

| 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. Emissions from ventilation or work process equipment should be checked to ensure |
|-------------------------------------|---|
| Environmental exposure controls | 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 measur | es de la constante de la const |
| 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, natural rubber (latex), Chloroprene, 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

| Appearance | | |
|--|----|--|
| Physical state | 1 | Liquid. |
| Color | 4 | Various |
| Odor | 1 | Aromatic. [Slight] |
| Odor threshold | 1 | Not available. |
| рН | : | insoluble in water. |
| Melting point | : | May start to solidify at the following temperature: -94.9°C (-138.8°F) This is based on data for the following ingredient: ethylbenzene. Weighted average: -94.95°C (-138.9°F) |
| Boiling point | 1 | >37.78°C (>100°F) |
| Flash point | : | Closed cup: 29°C (84.2°F) |
| Evaporation rate | 1 | Highest known value: 0.84 (ethylbenzene) Weighted average: 0.78compared with butyl acetate |
| Flammability (solid, gas) | 1 | liquid |
| Lower and upper explosive (flammable) limits | 1 | Greatest known range: Lower: 0.8% Upper: 6.7% (xylene) |
| Vapor pressure | : | Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.95 kPa (7.13 mm Hg) (at 20°C) |
| Vapor density | | Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.7 (Air = 1) |
| Relative density | | 1.48 |
| Solubility | | Insoluble in the following materials: cold water. |
| Partition coefficient: n- octanol/water | 1 | Not applicable. |
| Auto-ignition temperature | | Lowest known value: 432°C (809.6°F) (xylene). |
| Decomposition temperature | | Stable under recommended storage and handling conditions (see Section 7). |
| Viscosity | | k Kinematic (40°C): >21 mm²/s |
| Viscosity | _: | a > 100 s (ISO 6mm) |

Section 10. Stability and reactivity

| Reactivity | : No specific test data related to reactivity available for this product or its ingredient | ts. |
|------------------------------------|--|-----|
| 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. | |

Section 10. Stability and reactivity

 Hazardous decomposition
 : Depending on conditions, decomposition products may include the following

 products
 : arbon oxides nitrogen oxides sulfur oxides phosphorus oxides metal

 oxide/oxides
 : oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|------------------------------|---------------------------------|---------|-------------------------|----------|
| xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| | LD50 Oral | Rat | 4.3 g/kg | - |
| barium sulfate | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| trizinc bis(orthophosphate) | LC50 Inhalation Dusts and mists | Rat | >5.7 mg/l | 4 hours |
| | 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 | - |
| 12-hydroxyoctadecanoic acid, | LC50 Inhalation Dusts and mists | Rat | 3.56 mg/l | 4 hours |
| reaction products with | | | _ | |
| 1,3-benzenedimethanamine and | | | | |
| hexamethylenediamine | | | | |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >2000 mg/kg | - |
| zinc oxide | LC50 Inhalation Dusts and mists | Rat | >5700 mg/m ³ | 4 hours |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/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 | | | | | |
| 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 | 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 Carcinogenicity | There are no data available | e on the mixture | itself. | | |

Section 11. Toxicological information

| Conclusion/Summary | : There are no data available on the mixture itself. |
|---------------------------|--|
| 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. |
| Chapific terret error ter | |

Specific target organ toxicity (single exposure)

| Name | ••• | Route of exposure | Target organs |
|--|--------------------------|-------------------|--|
| Talc , not containing asbestiform fibres | Category 3 Category 3 | | Respiratory tract irritation Respiratory tract irritation Narcotic effects |
| | Category 3 | - | |

Specific target organ toxicity (repeated exposure)

| Name | • • • | Route of exposure | Target organs |
|---|--------------------------|----------------------|-------------------------|
| ethylbenzene 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine | Category 2 Category 2 | - inhalation | hearing organs lungs |
| toluene | Category 2 | - | - |

Aspiration hazard

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

| Information on the likely routes of exposure | 1 | Not available. |
|---|---|----------------------|
| Potential acute health effects | | |
| Eve contact | ÷ | Causes serious eve i |

| 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 |

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| | - |
|--------------------------------|--|
| 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 |
| <u>Short term exposure</u> | |
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |
| <u>Long term exposure</u> | |
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |
| Potential chronic health effe | ects |
| 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. |
| Reproductive toxicity | : No known significant effects or critical hazards. |
| Reproductive toxicity | |

Numerical measures of toxicity

ż

Acute toxicity estimates

| Route | ATE value |
|------------------------------|----------------|
| Øral | 14267.06 mg/kg |
| Dermal | 3967.59 mg/kg |
| Inhalation (vapors) | 31.91 mg/l |
| Inhalation (dusts and mists) | 4.02 mg/l |

Other information

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. 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.

Section 12. Ecological information

Toxicity

| | Species | Exposure |
|--|---|---|
| Acute LC50 0.112 mg/l | Fish | 96 hours |
| Chronic NOEC 0.026 mg/l | Fish | 30 days |
| Acute LC50 150 to 200 mg/l Fresh water | Fish | 96 hours |
| Acute EC50 >100 mg/l | Algae - Pseudokirchneriella | 72 hours |
| | subcapitata (microalgae) | |
| Acute EC50 >100 mg/l | Daphnia - Daphnia magna (Water flea) | 48 hours |
| Acute LC50 >100 mg/l | Fish - Oncorhynchus mykiss (rainbow trout) | 96 hours |
| Chronic NOEC 100 mg/l | Algae - Pseudokirchneriella | 72 hours |
| Chronic NOEC ≥50 mg/l | Daphnia - Daphnia magna | 21 days |
| Acute EC50 0.17 mg/l | Àlgae | 72 hours |
| Acute EC50 0.481 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| Chronic NOEC 0.017 mg/l Fresh water | Algae | 72 hours |
| _ | Chronic NOEC 0.026 mg/l Acute LC50 150 to 200 mg/l Fresh water Acute EC50 >100 mg/l Acute EC50 >100 mg/l Acute LC50 >100 mg/l Chronic NOEC 100 mg/l Chronic NOEC 250 mg/l Acute EC50 0.17 mg/l Acute EC50 0.481 mg/l Fresh water | Chronic NOEC 0.026 mg/l Acute LC50 150 to 200 mg/l Fresh waterFishAcute EC50 >100 mg/lAlgae - Pseudokirchneriella subcapitata (microalgae)Acute EC50 >100 mg/lDaphnia - Daphnia magna (Water flea)Acute LC50 >100 mg/lFish - Oncorhynchus mykiss (rainbow trout)Acute LC50 >100 mg/lFish - Oncorhynchus mykiss (rainbow trout)Chronic NOEC 100 mg/lAlgae - Pseudokirchneriella subcapitataChronic NOEC 250 mg/lDaphnia - Daphnia magna (Water flea)Acute EC50 0.17 mg/l Acute EC50 0.481 mg/l Fresh waterAlgae Daphnia - Daphnia magna - Neonate |

Persistence/degradability

| Product/ingredient name | Test | Result | | Dose | Inoculum |
|--|---|-----------------------|--------------|------|-------------------------------|
| 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine | OECD 301D Ready Biodegradability - Closed Bottle Test | 9 % - Not readily - 2 | 29 days | - | - |
| Conclusion/Summary | : There are no d | lata available on the | mixture itse | lf. | |
| Product/ingredient name | Aquatic half-life | | Photolysi | s | Biodegradability |
| xylene ethylbenzene toluene | - | | - - - | | Readily Readily Readily |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|--|-------------------|-------|--------------------|
| ylene ethylbenzene 12-hydroxyoctadecanoic acid, reaction products with | 3.12 3.6 >6 | 79.43 | low low high |
| 1,3-benzenedimethanamine and hexamethylenediamine toluene | 2.73 | 8.32 | low |

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Section 12. Ecological information

Mobility in soil

| Soil/water partition | 1 | Not av |
|-----------------------|---|--------|
| coefficient (Koc) | | |
| Other adverse effects | | No kno |

/ailable.

: 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 |
|------------------|---|
| | 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 | IATA |
|-----------------------------|--|-------------------------------|--|
| UN number | UN1263 | UN1263 | UN1263 |
| UN proper shipping name | PAINT | PAINT | PAINT |
| Transport hazard class(es) | 3 | 3 | 3 |
| Packing group | III | III | |
| Environmental hazards | Yes. The environmentally hazardous substance mark is not required. | Yes. | Yes. The environmentally hazardous substance mark is not required. |
| Marine pollutant substances | Not applicable. | (trizinc bis(orthophosphate)) | Not applicable. |

Additional information

| UN | : None identified. |
|------|--|
| IMDG | : The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg. |
| ΙΑΤΑ | The environmentally hazardous substance mark may appear if required by other transportation regulations. |

Product code 00247442

Date of issue 18 May 2021

Product name SIGMAFAST 210 BASE BASE L

Section 14. Transport information

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

Harmful Chemicals List

: Listed

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Section 16. Other information

History

| <u>Instory</u> | |
|-----------------------------------|---|
| Date of issue/Date of revision | : 18 May 2021 |
| Date of previous issue | : 1/16/2020 |
| Version | : 5 |
| 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 |
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✓ Indicates information that has changed from previously issued version.

Notice to reader

Section 16. Other information

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.