# SAFETY DATA SHEET

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## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

### 1.1 Product identifier

**Product name** : SIGMAFAST 210 HS BASE XX

**Product code** : PMC10210010-M/2180

**Product type** : Liquid.

**Other means of identification** : Not available.

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

**Product use** : Industrial applications, Used by spraying.

**Use of the substance/ mixture** : Coating.

**Uses advised against** : Product is not intended, labelled or packaged for consumer use.

### 1.3 Details of the supplier of the safety data sheet

«PPG Industries Lipetsk», LLC
Russian Federation, 399071, Lipetsk region,
Gryazinskij district, Kazinka village, Special Economic Zone IPT “Lipetsk”, building 43.
Tel.: +7 (4742) 42 30 63

**e-mail address of person responsible for this SDS** : Product.Stewardship.EMEA@ppg.com

**National contact**

PPG Architectural Coatings UK Ltd, Huddersfield Road, Birstall, West Yorkshire WF17 9XA, Tel: +44 (0) 1924 354000

### 1.4 Emergency telephone number

**Supplier**

Tel: 112 (General rescue service); 01 (local fire brigade); +7 (4742) 42-30-63 (PPG emergency)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

**Classification according to UK CLP/GHS**

Flam. Liq. 3, H226
Skin Sens. 1, H317
Aquatic Chronic 2, H411

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : Warning

**Hazard statements** : Flammable liquid and vapour.
May cause an allergic skin reaction.
Toxic to aquatic life with long lasting effects.

**Precautionary statements**

## SECTION 2: Hazards identification

**Prevention** : Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapour.

**Response** : Collect spillage.

**Storage** : Not applicable.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

P280, P210, P273, P261, P391, P501

**Supplemental label elements** : Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

**Special packaging requirements**

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

| Product/ingredient name | Identifiers | % | Classification | Type |
|---|---|---|---|---|
| n-butyl acetate | REACH #: 01-2119485493-29<br>EC: 204-658-1<br>CAS: 123-86-4<br>Index: 607-025-00-1 | ≥10 - <20 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066 | [1] [2] |
| xylene | REACH #: 01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7<br>Index: 601-022-00-9 | ≥5.0 - <10 | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412 | [1] [2] |
| trizinc bis(orthophosphate) | REACH #: 01-2119485044-40<br>EC: 231-944-3<br>CAS: 7779-90-0<br>Index: 030-011-00-6 | ≥1.0 - ≤5.0 | Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1) | [1] |
| ethylbenzene | REACH #: 01-2119489370-35<br>EC: 202-849-4<br>CAS: 100-41-4<br>Index: 601-023-00-4 | ≥1.0 - ≤5.0 | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373 (hearing organs)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, | [1] [2] |

## SECTION 3: Composition/information on ingredients

| | | | | |
|---|---|---|---|---|
| | | | H412 | |
| Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | REACH #: 01-2119491304-40<br>EC: 915-687-0<br>CAS: 1065336-91-5 | ≤1.0 | Skin Sens. 1A, H317<br>Repr. 2, H361f<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1) | [1] |
| α-[3-[3-(2H-benzotriazol-2-yl) derivatives | CAS: 104810-48-2 | <0.10 | Skin Sens. 1A, H317<br>Aquatic Chronic 2, H411 | [1] |
| | | | **See Section 16 for the full text of the H statements declared above.** | |

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene.

Type

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit

This mixture contains ≥ 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

Occupational exposure limits, if available, are listed in Section 8.

**SUB codes represent substances without registered CAS Numbers.**

## SECTION 4: First aid measures

### 4.1 Description of 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 recognised skin cleanser. Do NOT use solvents or thinners.

**Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. 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.

### 4.2 Most important symptoms and effects, both acute and delayed

**Potential acute health effects**

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

**Eye contact** : No specific data.

**Inhalation** : No specific data.

## SECTION 4: First aid measures

**Skin contact** : Adverse symptoms may include the following:
irritation
redness
dryness
cracking

**Ingestion** : No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use dry chemical, $CO_2$, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture** : Flammable liquid and vapour. 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 combustion products** : Decomposition products may include the following materials:
carbon oxides
sulfur oxides
phosphorus oxides
metal oxide/oxides

### 5.3 Advice for firefighters

**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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to British standard BS EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour. Put on appropriate personal protective equipment. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

## SECTION 6: Accidental release measures

**6.2 Environmental precautions** : Avoid dispersal of spilt 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.

### 6.3 Methods and material 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 the 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 spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour 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.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 5 to 35°C (41 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. Eliminate all ignition sources. Separate from oxidising 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

# SECTION 7: Handling and storage

See Section 1.2 for Identified uses.

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|---|---|
| n-butyl acetate | **EH40/2005 WELs (United Kingdom (UK), 1/2020)**<br>STEL 15 minutes: 966 mg/m³.<br>STEL 15 minutes: 200 ppm.<br>TWA 8 hours: 724 mg/m³.<br>TWA 8 hours: 150 ppm. |
| xylene | **EH40/2005 WELs (United Kingdom (UK), 1/2020) [xylene, o-,m-,p- or mixed isomers]** Absorbed through skin.<br>STEL 15 minutes: 441 mg/m³.<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 220 mg/m³.<br>STEL 15 minutes: 100 ppm. |
| ethylbenzene | **EH40/2005 WELs (United Kingdom (UK), 1/2020)** Absorbed through skin.<br>STEL 15 minutes: 552 mg/m³.<br>STEL 15 minutes: 125 ppm.<br>TWA 8 hours: 100 ppm.<br>TWA 8 hours: 441 mg/m³. |

### Biological exposure indices

| Product/ingredient name | Exposure indices |
|---|---|
| xylene | **EH40/2005 BMGVs (United Kingdom (UK), 1/2020) [Xylene, o-, m-, p- or mixed isomers]**<br>BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift. |

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### DNELs/DMELs

| | | | |
|---|---|---|---|
| n-butyl acetate | DNEL - Workers - Long term - Inhalation | *Systemic* | 300 mg/m³ |
| | DNEL - Workers - Long term - Dermal | *Systemic* | 11 mg/m³ |
| | DNEL - General population - Long term - Oral | *Systemic* | 2 mg/kg bw/day |
| | DNEL - General population - Short term - Oral | *Systemic* | 2 mg/kg bw/day |
| | DNEL - General population - Long term - Dermal | *Systemic* | 3.4 mg/kg bw/day |
| | DNEL - General population - Short term - Dermal | *Systemic* | 6 mg/kg bw/day |
| | DNEL - Workers - Long term - Dermal | *Systemic* | 7 mg/kg bw/day |
| | DNEL - Workers - Short term - Dermal | *Systemic* | 11 mg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | *Systemic* | 12 mg/m³ |
| | DNEL - General population - Long term - Inhalation | *Local* | 35.7 mg/m³ |
| | DNEL - Workers - Long term - Inhalation | *Systemic* | 48 mg/m³ |
| | DNEL - General population - Short term - | *Local* | 300 mg/m³ |

## SECTION 8: Exposure controls/personal protection

| | | | |
|---|---|---|---|
| | Inhalation | | |
| | DNEL - General population - Short term - Inhalation | *Systemic* | 300 mg/m³ |
| | DNEL - Workers - Long term - Inhalation | *Local* | 300 mg/m³ |
| | DNEL - Workers - Short term - Inhalation | *Local* | 600 mg/m³ |
| | DNEL - Workers - Short term - Inhalation | *Systemic* | 600 mg/m³ |
| xylene | DNEL - General population - Long term - Oral | *Systemic* | 5 mg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | *Local* | 65.3 mg/m³ |
| | DNEL - General population - Long term - Inhalation | *Systemic* | 65.3 mg/m³ |
| | DNEL - General population - Long term - Dermal | *Systemic* | 125 mg/kg bw/day |
| | DNEL - Workers - Long term - Dermal | *Systemic* | 212 mg/kg bw/day |
| | DNEL - Workers - Long term - Inhalation | *Local* | 221 mg/m³ |
| | DNEL - Workers - Long term - Inhalation | *Systemic* | 221 mg/m³ |
| | DNEL - General population - Short term - Inhalation | *Local* | 260 mg/m³ |
| | DNEL - General population - Short term - Inhalation | *Systemic* | 260 mg/m³ |
| | DNEL - Workers - Short term - Inhalation | *Local* | 442 mg/m³ |
| | DNEL - Workers - Short term - Inhalation | *Systemic* | 442 mg/m³ |
| ethylbenzene | DMEL - Workers - Long term - Inhalation | *Local* | 442 mg/m³ |
| | DMEL - Workers - Short term - Inhalation | *Systemic* | 884 mg/m³ |
| | DNEL - General population - Long term - Oral | *Systemic* | 1.6 mg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | *Systemic* | 15 mg/m³ |
| | DNEL - Workers - Long term - Inhalation | *Systemic* | 77 mg/m³ |
| | DNEL - Workers - Long term - Dermal | *Systemic* | 180 mg/kg bw/day |
| | DNEL - Workers - Short term - Inhalation | *Local* | 293 mg/m³ |
| α-[3-[3-(2H-benzotriazol-2-yl) derivatives | DNEL - General population - Long term - Oral | *Systemic* | 0.025 mg/kg bw/day |
| | DNEL - General population - Long term - Dermal | *Systemic* | 0.025 mg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | *Systemic* | 0.085 mg/m³ |
| | DNEL - Workers - Long term - Dermal | *Systemic* | 0.25 mg/kg bw/day |
| | DNEL - Workers - Long term - Inhalation | *Systemic* | 0.35 mg/m³ |

**PNECs**

| Product/ingredient name | Compartment Detail - Method | Value |
|---|---|---|
| n-butyl acetate | Fresh water | 0.18 mg/l |
| | Marine water | 0.018 mg/l |
| | Fresh water sediment | 0.981 mg/kg |
| | Marine water sediment | 0.0981 mg/kg |
| | Sewage Treatment Plant | 35.6 mg/l |
| | Soil | 0.0903 mg/kg |
| xylene | Fresh water | 0.327 mg/l |
| | Marine water | 0.327 mg/l |
| | Sewage Treatment Plant | 6.58 mg/l |
| | Fresh water sediment | 12.46 mg/kg dwt |
| | Marine water sediment | 12.46 mg/kg dwt |
| | Soil | 2.31 mg/kg |
| trizinc bis(orthophosphate) | Fresh water - Sensitivity Distribution | 20.6 µg/l |
| | Marine water - Sensitivity Distribution | 6.1 µg/l |
| | Sewage Treatment Plant - Assessment Factors | 100 µg/l |
| | Fresh water sediment - Sensitivity Distribution | 117.8 mg/kg dwt |
| | Marine water sediment - Equilibrium Partitioning | 56.5 mg/kg dwt |
| | Soil - Sensitivity Distribution | 35.6 mg/kg dwt |
| ethylbenzene | Fresh water - Assessment Factors | 0.1 mg/l |
| | Marine water - Assessment Factors | 0.01 mg/l |
| | Sewage Treatment Plant - Assessment Factors | 9.6 mg/l |
| | Fresh water sediment - Equilibrium Partitioning | 13.7 mg/kg dwt |

## SECTION 8: Exposure controls/personal protection

| | | |
|---|---|---|
| | Marine water sediment - Equilibrium Partitioning<br>Soil - Equilibrium Partitioning<br>Secondary Poisoning | 1.37 mg/kg dwt<br>2.68 mg/kg dwt<br>20 mg/kg |

### 8.2 Exposure controls

**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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety glasses with side shields.

**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. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

nitrile rubber, butyl rubber, PVC, 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. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3

**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.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

**Appearance**

**Physical state** : Liquid.

**Colour** : White.

**Odour** : Aromatic.

**Odour threshold** : Not available.

**Melting point/freezing point** :

**Initial boiling point and boiling range** : >37.78°C (>100°F)

**Flammability (solid, gas)** : liquid

**Upper/lower flammability or explosive limits** : Not available.

**Flash point** : Closed cup: 27°C (80.6°F)

**Auto-ignition temperature** :

| Ingredient name | °C | °F | Method |
|---|---|---|---|
| Castor oil, dehydrated | 395 | 743 | |

**pH** : Not applicable.
Not applicable. insoluble in water.

**Viscosity** : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C): >21 $mm^2/s$

**Solubility(ies)** :

| Media | Result |
|---|---|
| cold water | Not soluble |

**Miscible with water** : No.

**Partition coefficient: n-octanol/water** : Not applicable.

**Vapour pressure** :

| | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|---|---|---|---|---|---|---|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| ethylbenzene | 9.30076 | 1.2 | | | | |

**Relative density** : 1.48

**Explosive properties** : The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.

**Oxidising properties** : Product does not present an oxidizing hazard.

**Particle characteristics**

**Median particle size** : Not applicable.

## SECTION 10: Stability and reactivity

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

## SECTION 10: Stability and reactivity

**10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.
Refer to protective measures listed in sections 7 and 8.

**10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

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

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity**

| Product/ingredient name | Result | Dose / Exposure |
|---|---|---|
| n-butyl acetate | Rabbit - Dermal - LD50 | >17600 mg/kg |
| | Rat - Oral - LD50 | 10.768 g/kg |
| | Rat - Inhalation - LC50 Vapour | 2000 ppm [4 hours] |
| | Rat - Inhalation - LC50 Vapour | >21.1 mg/l [4 hours] |
| xylene | Rat - Oral - LD50 | 4.3 g/kg |
| | Rabbit - Dermal - LD50 | 1.7 g/kg |
| trizinc bis(orthophosphate) | Rat - Oral - LD50 | >5000 mg/kg |
| | Rat - Inhalation - LC50 Dusts and mists | >5.7 mg/l [4 hours] |
| ethylbenzene | Rat - Oral - LD50 | 3.5 g/kg |
| | Rabbit - Dermal - LD50 | 17.8 g/kg |
| | Rat - Inhalation - LC50 Vapour | 17.8 mg/l [4 hours] |
| Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Rat - Male, Female - Oral - LD50 | 3230 mg/kg |
| | Rat - Dermal - LD50 | >3170 mg/kg |
| α-[3-[3-(2H-benzotriazol-2-yl) derivatives | Rat - Male, Female - Oral - LD50 | >5000 mg/kg |
| | Rat - Male, Female - Dermal - LD50 | >2000 mg/kg |

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

**Acute toxicity estimates**

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|---|---|---|---|---|
| SIGMAFAST 210 HS BASE XX | N/A | 22343.7 | N/A | 130.2 | N/A |
| n-butyl acetate | 10768 | N/A | N/A | N/A | N/A |
| xylene | 4300 | 1700 | N/A | 11 | N/A |
| ethylbenzene | 3500 | 17800 | N/A | 17.8 | N/A |
| Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 3230 | N/A | N/A | N/A | N/A |

**Irritation/Corrosion**

| Product/ingredient name | Result |
|---|---|
| xylene | Rabbit - Skin - Moderate irritant<br>Amount/concentration applied: 500 mg<br>Duration of treatment/exposure: 24 hours |

**Conclusion/Summary** : Not available.

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

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

## SECTION 11: Toxicological information

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

**Sensitisation**

**Conclusion/Summary**

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

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

**Mutagenicity**

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

**Carcinogenicity**

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

**Reproductive toxicity**

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

**Specific target organ toxicity (single exposure)**

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|---|---|---|
| n-butyl acetate<br>xylene | Category 3<br>Category 3 | -<br>- | Narcotic effects<br>Respiratory tract irritation |

**Specific target organ toxicity (repeated exposure)**

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|---|---|---|
| ethylbenzene | Category 2 | - | hearing organs |

**Aspiration hazard**

| Product/ingredient name | Result |
|---|---|
| xylene<br>ethylbenzene | ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1 |

**Information on likely routes of exposure** : Not available.

**Potential acute health effects**

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact** : No specific data.

**Inhalation** : No specific data.

**Skin contact** : Adverse symptoms may include the following:
irritation
redness
dryness
cracking

**Ingestion** : No specific data.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Short term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

# SECTION 11: Toxicological information

## Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

## Potential chronic health effects

**Conclusion/Summary** : Not available.

**General** : 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** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

## Other information

Not available.

# SECTION 12: Ecological information

## 12.1 Toxicity

| Product/ingredient name | Result | Species | Dose / Exposure |
|---|---|---|---|
| n-butyl acetate | Acute - LC50 | Fish | 18 mg/l [96 hours] |
| trizinc bis(orthophosphate) | Acute - LC50 | Fish | 0.112 mg/l [96 hours] |
| | Chronic - NOEC | Fish | 0.026 mg/l [30 days] |
| ethylbenzene | Acute - EC50 - Fresh water | Daphnia | 1.8 mg/l [48 hours] |
| | Chronic - NOEC - Fresh water | Daphnia - *Ceriodaphnia dubia* | 1 mg/l |
| Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | LC50 | Fish | 0.9 mg/l [96 hours] |
| | EC50 | Algae | 1.68 mg/l [72 hours] |
| α-[3-[3-(2H-benzotriazol-2-yl) derivatives | Acute - LC50 | Fish | 2.8 mg/l [96 hours] |
| | Acute - EC50 | Daphnia | 4 mg/l [48 hours] |
| | Chronic - NOEC | Daphnia | 0.23 mg/l [21 days] |
| | Acute - EC50 | Algae | 16.6 mg/l [72 hours] |
| | Acute - NOEC | Algae | 3.2 mg/l [72 hours] |

**Conclusion/Summary** : Not available.

## 12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose / Inoculum |
|---|---|---|---|
| n-butyl acetate | TEPA and OECD 301D | 83% [28 days] - Readily | |
| ethylbenzene | - | 79% [10 days] - Readily | |
| α-[3-[3-(2H-benzotriazol-2-yl) derivatives | OECD [ Ready Biodegradability - CO2 Evolution Test] | 24% [28 days] - Not readily | |

**Conclusion/Summary** : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|---|---|---|
| n-butyl acetate | - | - | Readily |
| xylene | - | - | Readily |
| ethylbenzene | - | - | Readily |
| α-[3-[3-(2H-benzotriazol-2-yl) derivatives | - | - | Not readily |

## 12.3 Bioaccumulative potential

## SECTION 12: Ecological information

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| n-butyl acetate | 2.3 | - | Low |
| xylene | 3.12 | 7.4 to 18.5 | Low |
| ethylbenzene | 3.6 | 79.43 | Low |

### 12.4 Mobility in soil

**Soil/water partition coefficient** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

| Product/ingredient name | PBT | P | B | T | vPvB | vP | vB |
|---|---|---|---|---|---|---|---|
| n-butyl acetate | No | N/A | N/A | No | N/A | N/A | N/A |
| xylene | No | N/A | No | No | No | N/A | No |
| trizinc bis(orthophosphate) | No | No | No | No | No | No | No |
| ethylbenzene | No | N/A | No | Yes | No | N/A | No |
| Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | N/A | N/A | N/A | Yes | N/A | N/A | N/A |
| α-[3-[3-(2H-benzotriazol-2-yl) derivatives | No | N/A | N/A | No | N/A | N/A | N/A |

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

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

**Product**

**Methods of disposal** : The generation of waste should be avoided or minimised 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.

**Hazardous waste**

**Waste catalogue**

| Waste code | Waste designation |
|---|---|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |

**Packaging**

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

| Type of packaging | Waste catalogue | |
|---|---|---|
| Container | 15 01 04 | metallic packaging |

## SECTION 13: Disposal considerations

**Special precautions** : 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|---|---|---|---|---|
| **14.1 UN number** | UN1263 | UN1263 | UN1263 | UN1263 |
| **14.2 UN proper shipping name** | PAINT | PAINT | PAINT | PAINT |
| **14.3 Transport hazard class(es)** | 3 | 3 | 3 | 3 |
| **14.4 Packing group** | III | III | III | III |
| **14.5 Environmental hazards** | Yes. | Yes. | Yes. | Yes. The environmentally hazardous substance mark is not required. |
| **Marine pollutant substances** | Not applicable. | Not applicable. | (trizinc bis (orthophosphate)) | Not applicable. |

**Additional information**

**ADR/RID** : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**Tunnel code** : (D/E)

**ADN** : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

**14.6 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.

**14.7 Transport in bulk according to IMO instruments** : Not available.

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**UK (GB)/REACH**

**Annex XIV - List of substances subject to authorisation**

**Annex XIV**

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

**Explosive precursors** : Not applicable.

**Ozone depleting substances**

## SECTION 15: Regulatory information

Not listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

| Product/ingredient name | Entry Number (REACH) |
|---|---|
| SIGMAFAST 210 HS BASE XX | 3 |

**Labelling** : Not applicable.

**Seveso Directive**

This product is controlled under the Seveso Directive.

**Danger criteria**

| Category |
|---|
| P5c<br>E2 |

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate
GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = GB CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

**Procedure used to derive the classification**

| Classification | Justification |
|---|---|
| Flam. Liq. 3, H226<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411 | On basis of test data<br>Calculation method<br>Calculation method |

**Full text of abbreviated H statements**

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H361f | Suspected of damaging fertility. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

**Full text of classifications**

## SECTION 16: Other information

| | |
|---|---|
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Flam. Liq. 2 | FLAMMABLE LIQUIDS - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Repr. 2 | REPRODUCTIVE TOXICITY - Category 2 |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITISATION - Category 1A |
| STOT RE 2 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

**History**

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**Prepared by** : EHS

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**Disclaimer**

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