SAFETY DATA SHEET



Date of issue/Date of revision14 December 2015Version 5

| Section 1. Identification | | |
|----------------------------------|---|--|
| Product name | : Envirobase HP | |
| Product code | : EHP-1 | |
| Other means of identification | : Not available. | |
| Product type | : Liquid. | |
| Relevant identified uses of | the substance or mixture and uses advised against | |
| Product use | : Industrial applications. | |
| Use of the substance/ mixture | : Coating. Paints. Painting-related materials. | |
| Uses advised against | : Not applicable. | |
| Manufacturer | : PPG Industries, Inc. One PPG Place, Pittsburgh, PA 15272 | |
| Emergency telephone number | : (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico) | |
| Technical Phone Number | : (740) 363-9610 (DELAWARE, OH) 8:00 a.m 5:00 p.m. EST | |

Section 2. Hazards identification

| OSHA/HCS status | : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
|--|--|
| Classification of the substance or mixture | : SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 |
| | Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 82.8% |
| GHS label elements Hazard pictograms | |
| Signal word | : Warning |

Product name Envirobase HP

Section 2. Hazards identification

| Hazard statements | Causes serious eye irritation. Causes skin irritation. Suspected of causing cancer. |
|----------------------------------|--|
| Precautionary statements | |
| Prevention | Øbtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash hands thoroughly after handling. |
| Response | : IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. 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. |
| Disposal | : Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Supplemental label elements | : 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. Wash thoroughly after handling. Emits toxic fumes when heated. DANGER - RAGS, STEEL WOOL OR WASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER EACH USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL CONTAINER. |
| Hazards not otherwise classified | : Prolonged or repeated contact may dry skin and cause irritation. |

Section 3. Composition/information on ingredients

Substance/mixture

- Product name
- : Mixture
- : Envirobase HP

| Ingredient name | % | CAS number |
|---|------------|------------------|
| 2-butoxyethanol | ≥7 - <25 | 111-76-2 |
| titanium dioxide | ≥0.1 - <25 | 13463-67-7 |
| aluminium oxide | ≥0.1 - <25 | 1344-28-1 |
| diiron trioxide | ≥0.1 - <25 | 1309-37-1 |
| Mica-group minerals | ≥0.1 - <25 | 12001-26-2 |
| 3-butoxypropan-2-ol | ≥4 - <24 | 5131-66-8 |
| Natural graphite | ≥0.1 - <25 | 7782-42-5 |
| Aluminium powder (stabilized) | ≥0.1 - <25 | 7429-90-5 |
| carbon black, respirable powder | ≥0.1 - <25 | 1333-86-4 |
| [1,3,8,16,18,24-hexabromo-2,4,9,10,11,15,17,22,23,25-decachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]copper | ≥2 - <25 | 14302-13-7 |
| 2-(2-butoxyethoxy)ethanol | ≥1 - <10 | 112-34-5 |
| [1-[[(2-hydroxyphenyl)imino]methyl]-2-naphtholato(2-)-N,O,O']copper | ≥1 - <9 | 15680-42-9 |
| Naphtha (petroleum), hydrotreated heavy | ≥1 - <13 | 64742-48-9 |
| aluminium hydroxide | ≥0.1 - <25 | 21645-51-2 |
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Product name Envirobase HP

Section 3. Composition/information on ingredients

NJTS# 80100337-5011

≥0.1 - <1

Proprietary

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

| Eye contact | 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

| Potential acute health effect | <u>cts</u> |
|-------------------------------|--|
| Eye contact | : Causes serious eye irritation. |
| Inhalation | : No known significant effects or critical hazards. |
| Skin contact | : Causes skin irritation. Defatting to the skin. |
| Ingestion | : No known significant effects or critical hazards. |
| Over-exposure signs/symp | u <u>toms</u> |
| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | : No specific data. |
| Skin contact | : Adverse symptoms may include the following: irritation redness dryness cracking |
| Ingestion | : No specific data. |
| Indication of immediate med | lical 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. |
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Section 4. First aid measures

Specific treatments Protection of first-aiders : No specific treatment.

: 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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures **Extinguishing media** Suitable extinguishing : Use an extinguishing agent suitable for the surrounding fire. media Unsuitable extinguishing : None known. media Specific hazards arising : In a fire or if heated, a pressure increase will occur and the container may burst. This from the chemical 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 may include the following materials: carbon dioxide decomposition products carbon monoxide nitrogen oxides

halogenated compounds 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. |
|--|---|---|
| Special protective equipment for fire-fighters | 1 | 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. 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 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". |
| Environmental precautions | : | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |

Methods and materials for containment and cleaning up

Product name Envirobase HP

Section 6. Accidental release measures

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

Section 7. Handling and storage

| Precautions for safe handling | |
|--|--|
| Protective measures | : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| Special precautions | : Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. |
| 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. |
| Conditions for safe storage, including any incompatibilities | : Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. 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. 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. |

Product name Envirobase HP

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| ngredient name | Exposure limits |
|------------------------------|---|
| butoxyethanol | ACGIH TLV (United States, 4/2014). |
| | TWA: 20 ppm 8 hours. |
| | OSHA PEL (United States, 2/2013). |
| | Absorbed through skin. |
| | TWA: 240 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| tanium dioxide | OSHA PEL (United States, 2/2013). |
| | TWA: 15 mg/m ³ 8 hours. Form: Total dust |
| | ACGIH TLV (United States, 4/2014). |
| | TWA: 10 mg/m ³ 8 hours. |
| luminium oxide | ACGIH TLV (United States). |
| | TWA: 3 mg/m ³ Form: Respirable |
| | ACGIH TLV (United States, 4/2014). |
| | TWA: 1 mg/m ³ 8 hours. Form: Respirable |
| | fraction |
| | OSHA PEL (United States, 2/2013). |
| | TWA: 5 mg/m ³ 8 hours. Form: Respirable |
| | fraction |
| | TWA: 15 mg/m ³ 8 hours. Form: Total dust |
| | ACGIH TLV (United States, 1/2007). |
| | TWA: 10 mg/m ³ 8 hours. |
| iiron trioxide | ACGIH TLV (United States, 4/2014). |
| | TWA: 5 mg/m ³ 8 hours. Form: Respirable |
| | fraction |
| | OSHA PEL (United States, 2/2013). |
| | TWA: 10 mg/m ³ 8 hours. |
| /lica-group minerals | ACGIH TLV (United States, 4/2014). |
| lica-group minerals | TWA: 3 mg/m ³ 8 hours. Form: Respirable |
| | • |
| | fraction |
| | OSHA PEL Z3 (United States, 2/2013). |
| butownronon 2 ol | TWA: 20 mppcf 8 hours. |
| -butoxypropan-2-ol | IPEL (PPG). |
| latural araabita | TWA: 50 ppm |
| latural graphite | OSHA PEL (United States). |
| | TWA: 5 mg/m ³ Form: Respirable |
| | TWA: 10 mg/m ³ |
| | ACGIH TLV (United States, 4/2014). |
| | TWA: 2 mg/m ³ 8 hours. Form: Respirable |
| | fraction |
| | OSHA PEL Z3 (United States, 2/2013). |
| | TWA: 15 mppcf 8 hours. |
| luminium powder (stabilised) | ACGIH TLV (United States, 4/2014). |
| | TWA: 1 mg/m ³ 8 hours. Form: Respirable |
| | fraction |
| | OSHA PEL (United States, 2/2013). |
| | TWA: 5 mg/m ³ , (as AI) 8 hours. Form: |
| | |
| | Respirable fraction |

TWA: 15 mg/m³, (as Al) 8 hours. Form: Total

Product name Envirobase HP

Section 8. Exposure controls/personal protection

| | | United States Page: 7/15 |
|--|--|---|
| Individual protection measur Hygiene measures | : Wash hands, forearms and face thoroug eating, smoking and using the lavatory a Appropriate techniques should be used | to remove potentially contaminated clothing. sing. Ensure that eyewash stations and safety |
| Environmental exposure controls | : Emissions from ventilation or work proce they comply with the requirements of en | ess equipment should be checked to ensure wironmental protection legislation. In some ering modifications to the process equipment |
| Appropriate engineering controls | | , gas, vapor or mist, use process enclosures, ering controls to keep worker exposure to mended or statutory limits |
| Recommended monitoring procedures | the ventilation or other control measures protective equipment. Reference should | y be required to determine the effectiveness of s and/or the necessity to use respiratory d be made to appropriate monitoring standards. ents for methods for the determination of |
| Consult local authorities for a | • | |
| OSHA = Occupational Safety and R = Respirable | | TLV = Threshold Limit Value TWA = Time Weighted Average |
| | Governmental Industrial Hygienists. | SR = Respiratory sensitization SS = Skin sensitization STEL = Short term Exposure limit values TD = Total dust |
| A = Acceptable Maximum Pe | Key to abbreviations | S = Potential skin absorption |
| NJTS# 80100337-5011 | | TWA: 1 mg/m³ None. |
| | | fraction ACGIH TLV (United States). |
| aluminium hydroxide | | ACGIH TLV (United States, 4/2014). TWA: 1 mg/m ³ 8 hours. Form: Respirable |
| [1-[[(2-hydroxyphenyl)imino]methyl]-2-naphtholato(2-)-N,O,O']copper Naphtha (petroleum), hydrotreated heavy | | None. |
| | | TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor |
| 31H-phthalocyaninato(2-)-N2 2-(2-butoxyethoxy)ethanol | | ACGIH TLV (United States, 4/2014). |
| [1,3,8,16,18,24-hexabromo-2 | 2,4,9,10,11,15,17,22,23,25-decachloro-29H, | TWA: 3.5 mg/m ³ 8 hours. |
| | | fraction OSHA PEL (United States, 2/2013). |
| carbon black, respirable powder | | ACGIH TLV (United States, 4/2014). TWA: 3 mg/m ³ 8 hours. Form: Inhalable |
| | | dust |

Product name Envirobase HP

Section 8. Exposure controls/personal protection

| Eye/face protection Skin protection | : Chemical splash goggles. |
|--|--|
| 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: |
| | Recommended: butyl rubber, nitrile rubber |
| 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. |
| 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

| <u>Appearance</u> | |
|--|-------------------------------|
| Physical state | : Liquid. |
| Color | : Various |
| Odor | : Not available. |
| Odor threshold | : Not available. |
| рН | : Not available. |
| Melting point | : Not available. |
| Boiling point | : >37.78°C (>100°F) |
| Flash point | : Closed cup: 93.33°C (200°F) |
| Material supports combustion. | : Yes. |
| Auto-ignition temperature | : Not available. |
| Decomposition temperature | : Not available. |
| Flammability (solid, gas) | : Not available. |
| Lower and upper explosive (flammable) limits | : Not available. |
| Evaporation rate | : Not available. |
| Vapor pressure | : Not available. |
| Vapor density | : Not available. |
| Relative density | : 1.12 |

Product name Envirobase HP

Section 9. Physical and chemical properties

| Density (lbs / gal) | : 9.35 |
|--|--|
| Solubility | : Insoluble in the following materials: cold water. |
| Partition coefficient: n- octanol/water | : Not available. |
| Viscosity | : Kinematic (40°C (104°F)): >0.21 cm ² /s (>21 cSt) |
| Volatility | : 79% (v/v), 72% (w/w) |
| % Solid. (w/w) | : 28.1 |

Physical property values shown in this section are calculated averages. For specific product information, contact your PPG Sales Representative.

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. Refer to protective measures listed in sections 7 and 8. |
| Incompatible materials | : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids. |
| Hazardous decomposition products | : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen. |

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---------------------------------------|---------------------------------|----------|-------------------------|------------|
| 2-butoxyethanol | LD50 Dermal | Rabbit | 1060 mg/kg | - |
| · | LD50 Oral | Rat | 470 mg/kg | - |
| titanium dioxide | LD50 Oral | Rat | >11 g/kg | - |
| diiron trioxide | LD50 Oral | Rat | 10 g/kg | - |
| 3-butoxypropan-2-ol | LD50 Dermal | Rabbit | 3100 mg/kg | - |
| | LD50 Oral | Rat | 2.2 g/kg | - |
| carbon black, respirable | LD50 Dermal | Rabbit | >3 g/kg | - |
| powder | | | | |
| | LD50 Oral | Rat | >15400 mg/kg | - |
| 2-(2-butoxyethoxy)ethanol | LD50 Dermal | Rabbit | 2700 mg/kg | - |
| · · · · · · · · · · · · · · · · · · · | LD50 Oral | Rat | 4500 mg/kg | - |
| [1-[[(2-hydroxyphenyl)imino] | LC50 Inhalation Dusts and mists | Rat | >1000 mg/m ³ | 4 hours |
| methyl]-2-naphtholato(2-)-N, | | | | |
| | 1 | <u> </u> | United States | Page: 9/15 |

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| ection 11. Toxico | logical | inforn | nation | | | | | |
|---|--|----------------------------|------------------|--------------|-----------|------------|-----------|----------------|
| O,O']copper Naphtha (petroleum), hydrotreated heavy | LC50 Inha | alation Vap | or | Rat | | 8500 mg/m³ | 3 | 4 hours |
| | LD50 Ora | | | Rat | | >6 g/kg | - | |
| NJTS# 80100337-5011 | LD50 Ora | | | Rat | | 4.6 g/kg | - | |
| Conclusion/Summary rritation/Corrosion | : There ar | e no data a | available on th | ne mixture | e itself. | | | |
| Product/ingredient name | Result | | Spee | ies | Score | Expo | sure | Observation |
| NJTS# 80100337-5011 | | vere irritan d irritant | - | oit | - | | ililiters | - |
| Conclusion/Summary | | | | | | | | |
| Skin | : There ar | e no data a | available on th | ne mixture | e itself. | | | |
| Eyes | | | available on th | | | | | |
| Respiratory | : There ar | re no data a | available on th | ne mixture | e itself. | | | |
| Sensitization | | | | | | | | |
| Conclusion/Summary | . Thans - | o no data | wollohio " | o mi | iteelf | | | |
| Skin | There are no data available on the mixture itself. There are no data available on the mixture itself. | | | | | | | |
| Respiratory | : There ar | e no data a | avaliable on ti | ie mixture | e itseit. | | | |
| <u>Iutagenicity</u> | . These | | available ar 4 | | Hack | | | |
| Conclusion/Summary | : There ar | e no data a | available on th | ie mixture | e itseit. | | | |
| Carcinogenicity | . Thoro or | o no doto / | available on t | o mixture | itaalf | | | |
| Conclusion/Summary Classification | : There ar | | available on th | | e itsen. | | | |
| | | | NTD | | | | | |
| Product/ingredient name | OSHA | IARC | NTP | | | | | |
| 2-butoxyethanol titanium dioxide | - | 3 2B | - | | | | | |
| diiron trioxide | - | 3 | - | | | | | |
| carbon black, respirable powder | - | 2B | - | | | | | |
| Carcinogen Classification | n code: | | | | | | | |
| IARC: 1, 2A, 2B, 3, NTP: Known to be OSHA: + Not listed/not regu | e a human car | cinogen; Rea | asonably anticip | ated to be a | a human (| carcinogen | | |
| eproductive toxicity | | | | | | | | |
| Conclusion/Summary | : There are | e no data a | vailable on th | e mixture | itself. | | | |
| <u>eratogenicity</u> | | | | | | | | |
| · · · · · · · · · · · · · · · · · · · | | | vailable on th | e mixture | itself. | | | |
| pecific target organ toxicity | <u> (single ex</u> | <u>posure)</u> | | | | | | |
| | | | | | | | | Cotogon |
| Name | | | | | | | | Category |

| | United States | Page: 10/15 |
|--|---------------|-------------|
|--|---------------|-------------|

Product name Envirobase HP

Section 11. Toxicological information

Not available.

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Target organs
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: Contains material which causes damage to the following organs: brain, central nervous system (CNS), eye, lens or cornea.

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, spleen, lymphatic system, cardiovascular system, upper respiratory tract, skin, bone marrow.

Aspiration hazard

| | Name | | | Result | | |
|----|--|----|---|--|--|--|
| Ē | Naphtha (petroleum), hydrotreated heavy | | ASPIRATION HAZARD - Category 1 | | | |
| In | nformation on the likely routes of exposure | | | | | |
| 1 | Potential acute health effects | | | | | |
| | Eye contact | : | Causes serious eye irritation. | | | |
| | Inhalation | 1 | No known significant effects or critical haz | ards. | | |
| | Skin contact | 1 | Causes skin irritation. Defatting to the ski | n. | | |
| | Ingestion | : | No known significant effects or critical haz | ards. | | |
| 9 | <u> Over-exposure signs/sympt</u> | om | <u>IS</u> | | | |
| | Eye contact | : | Adverse symptoms may include the follow pain or irritation watering redness | ving: | | |
| | Inhalation | 1 | No specific data. | | | |
| | Skin contact | | Adverse symptoms may include the follow irritation redness dryness cracking | ing: | | |
| | Ingestion : No specific data. | | | | | |
| D | Delayed and immediate effects and also chronic effects from short and long term exposure | | | | | |
| | Conclusion/Summary | : | concentrations in excess of the stated occ health effects such as mucous membrane effects on the kidneys, liver and central ne headache, dizziness, fatigue, muscular we loss of consciousness. Solvents may cau through the skin. There is some evidence vapors in combination with constant loud ne expected from exposure to noise alone. It irritation and reversible damage. Ingestion This takes into account, where known, de | f splashed in the eyes, the liquid may cause n may cause nausea, diarrhea and vomiting. layed and immediate effects and also chronic d long-term exposure by oral, inhalation and | | |
| - | Short term exposure | | | | | |
| | Potential immediate effects | 1 | There are no data available on the mixture | e itself. | | |
| | Potential delayed effects | : | There are no data available on the mixture | e itself. | | |
| _ | | | | | | |

Product name Envirobase HP

Section 11. Toxicological information

| Long term exposure | | | | |
|--------------------------------|--|--|--|--|
| Potential immediate effects | There are no data available on the mixture itself. | | | |
| Potential delayed effects | : There are no data available on the mixture itself. | | | |
| Potential chronic health effe | <u>ots</u> | | | |
| General | : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. | | | |
| Carcinogenicity | : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. | | | |
| Mutagenicity | No known significant effects or critical hazards. | | | |
| Teratogenicity | : No known significant effects or critical hazards. | | | |
| Developmental effects | pmental effects : No known significant effects or critical hazards. | | | |
| Fertility effects | Fertility effects : No known significant effects or critical hazards. | | | |
| Numerical measures of toxic | <u>ty</u> | | | |
| Acute toxicity estimates | | | | |
| Route | ATE value | | | |
| Øral | 10171.4 mg/kg | | | |

| Øral | 10171.4 mg/kg |
|------------------------------|---------------|
| Dermal | 20684.8 mg/kg |
| Inhalation (gases) | 91551.3 ppm |
| Inhalation (vapors) | 193.8 mg/l |
| Inhalation (dusts and mists) | 30.52 mg/l |

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|----------------------------------|-------------------------|----------|
| titanium dioxide | Acute LC50 >100 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |

Persistence and degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| 2-butoxyethanol | - | - | Readily |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|---------------------------|--------|-----|-----------|
| 2-butoxyethanol | 0.81 | - | low |
| 3-butoxypropan-2-ol | 1.15 | - | low |
| 2-(2-butoxyethoxy)ethanol | 0.56 | - | low |

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

United States Page: 12/15

Product name Envirobase HP

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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information

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

Additional information

- DOT : None identified. IMDG : None identified.
- IATA : None identified.

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

Product name Envirobase HP

Section 15. Regulatory information

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United States

United States inventory (TSCA 8b) : All components are listed or exempted.

U.S. Federal regulations

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification

: Immediate (acute) health hazard Delayed (chronic) health hazard

Composition/information on ingredients

| Name | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|---|----------------|----------------------------------|----------|--|--|
| 2-butoxyethanol | Yes. | No. | No. | Yes. | No. |
| titanium dioxide | No. | No. | No. | No. | Yes. |
| 3-butoxypropan-2-ol | Yes. | No. | No. | Yes. | No. |
| Natural graphite | Yes. | No. | No. | No. | No. |
| aluminium powder (stabilised) | Yes. | No. | No. | No. | No. |
| carbon black, respirable powder | Yes. | No. | No. | No. | Yes. |
| [1,3,8,16,18,24-hexabromo-2,4,9,10, 11,15,17,22,23,25-decachloro-29H, 31H-phthalocyaninato(2-)-N29,N30, N31,N32]copper | Yes. | No. | No. | Yes. | No. |
| 2-(2-butoxyethoxy)ethanol | Yes. | No. | No. | Yes. | No. |
| [1-[[(2-hydroxyphenyl)imino]methyl] -2-naphtholato(2-)-N,O,O']copper | Yes. | No. | No. | Yes. | No. |
| Naphtha (petroleum), hydrotreated heavy | Yes. | No. | No. | Yes. | No. |
| NJTS# 80100337-5011 | No. | No. | No. | Yes. | No. |

| | <u>Chemical name</u> | CAS number | Concentration |
|-----------------------|---|------------|----------------------|
| Supplier notification | : bismuth vanadium tetraoxide | 14059-33-7 | 10 - 30 |
| | 2-butoxyethanol | 111-76-2 | 5 - 10 |
| | Aluminium powder (stabilized) | 7429-90-5 | 1 - 5 |
| | 2-(2-butoxyethoxy)ethanol | 112-34-5 | 1 - 5 |
| | [1-[[(2-hydroxyphenyl)imino]methyl]-2-naphtholato (2-)-N,O,O']copper | 15680-42-9 | 1 - 5 |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

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

California Prop. 65

SARA 313

WARNING: This product contains a chemical known to the State of California to cause cancer.

United States Page: 14/15

Product name Envirobase HP

Section 16. Other information

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

Health : 3 * Flammability : 1 Physical hazards : 1

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

| National Fire Protection Ass | ociation (U.S.A.) |
|--|----------------------------|
| Health : 3 Flamma | bility : 1 Instability : 1 |
| Date of previous issue | : 7/11/2015 |
| Organization that prepared the MSDS | : EHS |
| Key to abbreviations : ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ship 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations | |

Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.