SAFETY DATA SHEET



Date of issue/Date of revision 18 December 2025

Version 7

Section 1. Identification

Product name : VERSAFLEX 468 HG WHITE RESIN

Product code : 00463561

Other means of : Not available.

identification Product type

: Liquid.

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

Product use : Professional applications, Used by spraying.

Use of the substance/

mixture

: Coating.

Uses advised against

: Not applicable.

Manufacturer : PPG Industries, Inc.

One PPG Place Pittsburgh, PA 15272 : (412) 434-4515 (U.S.)

Emergency telephone

<u>number</u>

(514) 645-1320 (Canada)

SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)

Technical Phone Number: 888-977-4762

Section 2. Hazards identification

OSHA/HCS status

Classification of the substance or mixture

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

: FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 2

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 16.9% (oral), 27.6% (dermal), 39.7% (inhalation)

This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8).

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Section 2. Hazards identification

GHS label elements

Hazard pictograms









Signal word

Hazard statements

: Danger

: Flammable liquid and vapor.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause cancer.

Suspected of damaging fertility or the unborn child.

<u>Precautionary statements</u>

Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response

: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage Disposal

: Store locked up.

Supplemental label elements

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

: Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Do not taste or swallow. 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.

Hazards not otherwise classified

: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

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Section 3. Composition/information on ingredients

Substance/mixture : Mixture

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| Ingredient name | % | CAS number |
|---|-----------|-------------|
| iranium dioxide | 10 - 30 | 13463-67-7 |
| barium sulfate | 10 - 30 | 7727-43-7 |
| n-butyl acetate | 5 - 10 | 123-86-4 |
| bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane | 5 - 10 | 136210-32-7 |
| Ketimine | 3 - 7 | 71077-09-3 |
| heptan-2-one | 1 - 5 | 110-43-0 |
| Wollastonite | 1 - 5 | 13983-17-0 |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | 1 - 5 | 41556-26-7 |
| zinc oxide | 1 - 5 | 1314-13-2 |
| Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine | 0.5 - 1.5 | 911674-82-3 |
| α-[3-[3-(2H-benzotriazol-2-yl) derivatives | 0.1 - 1 | 104810-48-2 |
| methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 0.1 - 1 | 82919-37-7 |
| crystalline silica, non-respirable powder (>10 microns) | 0.1 - 1 | 14808-60-7 |

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
 Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
 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.

: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

: 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 effects

Skin contact

Ingestion

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.

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Section 4. First aid measures

Ingestion : Corrosive to the digestive tract. Causes burns.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain watering redness

Inhalation: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Skin contact: Adverse symptoms may include the following:

pain or irritation redness dryness cracking

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion: Adverse symptoms may include the following:

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

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, CO2, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

Specific hazards arising from the chemical

: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

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Section 5. Fire-fighting measures

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides phosphorus 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

metal oxide/oxides

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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

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

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

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

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Section 7. Handling and storage

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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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.

Special precautions

: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. 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

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.

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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits | |
|------------------|---|--|
| titanium dioxide | ACGIH TLV (United States, 1/2025) | |
| | TWA 8 hours: 2.5 mg/m³. Form: respirable | |
| | fraction, finescale particles. | |
| | OSHA PEL (United States, 5/2018) | |
| | TWA 8 hours: 15 mg/m³. Form: Total dust. | |
| barium sulfate | ACGIH TLV (United States, 1/2025) | |
| | TWA 8 hours: 5 mg/m ³ . Form: Inhalable | |
| | fraction. | |
| | OSHA PEL (United States, 5/2018) | |
| | TWA 8 hours: 15 mg/m³. Form: Total dust. | |
| | TWA 8 hours: 5 mg/m ³ . Form: Respirable | |

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Section 8. Exposure controls/personal protection

n-butyl acetate

bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane Ketimine

heptan-2-one

Wollastonite

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate zinc oxide

Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine

α-[3-[3-(2H-benzotriazol-2-yl) derivatives methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate crystalline silica, non-respirable powder (>10 microns)

ACGIH TLV (United States, 1/2025) [Butyl

acetates1

STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm.

OSHA PEL (United States, 5/2018)

TWA 8 hours: 150 ppm. TWA 8 hours: 710 mg/m³.

None. None.

ACGIH TLV (United States, 1/2025)

TWA 8 hours: 50 ppm.

OSHA PEL (United States, 5/2018)

TWA 8 hours: 100 ppm. TWA 8 hours: 465 mg/m³.

ACGIH TLV (United States, 1/2025)

TWA 8 hours: 1 mg/m³. Form: Inhalable

fraction. None.

ACGIH TLV (United States, 1/2025)

TWA 8 hours: 2 mg/m³. Form: Respirable

STEL 15 minutes: 10 mg/m³. Form:

Respirable fraction.

OSHA PEL (United States, 5/2018)

TWA 8 hours: 15 mg/m³. Form: Total dust. TWA 8 hours: 5 mg/m³. Form: Respirable

fraction.

TWA 8 hours: 5 mg/m³. Form: Fume.

ACGIH TLV (United States)

TWA: 3 mg/m³ (Respirable fraction).

TWA: 10 mg/m³ (Total dust).

None. None.

ACGIH TLV (United States, 1/2025) [Silica, crystalline1

TWA 8 hours: 0.025 mg/m³. Form:

Respirable fraction.

OSHA PEL (United States, 5/2018) [Silica, crystalline]

TWA 8 hours: 50 µg/m³. Form: Respirable

OSHA PEL Z3 (United States, 6/2016)

TWA 8 hours: $250 / (\%SiO_2 + 5)$ mppcf. Form:

Respirable.

TWA 8 hours: $10 / (\%SiO_2+2) \text{ mg/m}^3$. Form:

Respirable.

Key to abbreviations

= Acceptable Maximum Peak

ACGIH = American Conference of Governmental Industrial Hygienists.

= Ceiling Limit

S = Potential skin absorption SR = Respiratory sensitization

SS

= Skin sensitization

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Section 8. Exposure controls/personal protection

IPEL

= Internal Permissible Exposure Limit

OSHA = Occupational Safety and Health Administration.

R = Respirable

Ζ = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

= Short term Exposure limit values TD = Total dust

TLV = Threshold Limit Value **TWA** = Time Weighted Average

Consult local authorities for acceptable exposure limits.

procedures

Recommended monitoring: 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.

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

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 **Skin protection Hand protection**

Chemical splash goggles and face shield.

: 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

: nitrile neoprene

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 antistatic 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.

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Section 8. Exposure controls/personal protection

The respiratory protection shall be in accordance to 29 CFR 1910.134.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.
Color : White.

Odor : Characteristic.

pH : Not applicable.

Melting point : Not available.

Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: 23°C (73.4°F)

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Flammability : Not available.

Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure: Not available.Vapor density: Not available.

Relative density : 1.54

Density (lbs / gal) : 12.85

Solubility(ies) : Media Result

cold water Not soluble

Partition coefficient: n-

octanol/water

: Not applicable.

Viscosity : Dynamic (room temperature): Not available.

Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

% **Solid.** (w/w) : 83.248

Particle characteristics

Median particle size : Not applicable.

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.

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Section 10. Stability and reactivity

Incompatible materials

: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

Hazardous decomposition products

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

Section 11. Toxicological information

Information on toxicological effects Acute toxicity

| Product/ingredient name | Result | Dose |
|---|-----------------------------------|-----------------------|
| titanium dioxide | Rat - Oral - LD50 | >5000 mg/kg |
| | Rabbit - Dermal - LD50 | >5000 mg/kg |
| | Rat - Inhalation - LC50 Dusts and | >6.82 mg/l [4 hours] |
| | mists | |
| barium sulfate | Rat - Oral - LD50 | >5000 mg/kg |
| | Rat - Dermal - LD50 | >2000 mg/kg |
| n-butyl acetate | Rabbit - Dermal - LD50 | >17600 mg/kg |
| • | Rat - Oral - LD50 | 10.768 g/kg |
| | Rat - Inhalation - LC50 Vapor | 2000 ppm [4 hours] |
| | Rat - Inhalation - LC50 Vapor | >21.1 mg/l [4 hours] |
| bis(4-(1,2-bis(ethoxycarbonyl)ethylamino) -3-methylcyclohexyl)methane | Rat - Oral - LD50 | >2000 mg/kg |
| , , , , | Rat - Dermal - LD50 | >2000 mg/kg |
| | Rat - Inhalation - LC50 Dusts and | >4224 mg/l [4 hours] |
| | mists | |
| Ketimine | Rat - Oral - LD50 | 2000 mg/kg |
| heptan-2-one | Rat - Oral - LD50 | 1.6 g/kg |
| ' | Rabbit - Dermal - LD50 | 10.206 g/kg |
| | Rat - Inhalation - LC50 Vapor | 16.7 mg/l [4 hours] |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | Rat - Oral - LD50 | 3.125 g/kg |
| zinc oxide | Rat - Oral - LD50 | >5000 mg/kg |
| | Rat - Dermal - LD50 | >2000 mg/kg |
| | Rat - Inhalation - LC50 Dusts and | >5700 mg/m³ [4 hours] |
| | mists | [|
| Reaction products of | Rat - Inhalation - LC50 Dusts and | >5.08 mg/l [4 hours] |
| 12-hydroxyoctadecanoic acid and | mists | |
| octadecanoic acid and | | |
| 1,3-phenylenedimethanamine | | |
| α-[3-[3-(2H-benzotriazol-2-yl) derivatives | Rat - Male, Female - Oral - LD50 | >5000 mg/kg |
| | Rat - Male, Female - Dermal - | >2000 mg/kg |
| | LD50 | |
| methyl 1,2,2,6,6-pentamethyl-4-piperidyl | Rat - Oral - LD50 | 3.125 g/kg |
| sebacate | | |

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

Skinn Garrosion/irritation Corrosive to the skin. (OECD In Vitro Skin Corrosion: Human Skinn Morgel Test)

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

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Section 11. Toxicological information

Serious eye damage/eye irritation

Ingredient name Summary

Ketimine Corrosive to eyes.

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

Respiratory corrosion/irritation

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

Sensitization

| Product/ingredient name | Species | Result |
|-------------------------|--|---------------------|
| Ketimine | Mouse - skin OECD [Skin sensitization: Local Lymph Node Assay] | Result: Sensitizing |

Skin

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

Respiratory

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

Mutagenicity

| Product/ingredient name | Species | Result |
|-------------------------|--|------------------|
| Ketimine | In vitro - Bacteria OECD [Bacterial Reverse Mutation Test] | Result: Negative |

Ingredient name Summary

Ketimine Not mutagenic in Ames test.

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

Carcinogenicity

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

Classification

| Product/ingredient name | OSHA | IARC | NTP |
|---|------|------|---------------------------------|
| titanium dioxide | - | 2B | - |
| Wollastonite | - | 3 | - |
| crystalline silica, non-respirable powder (>10 microns) | + | 1 | Known to be a human carcinogen. |

Carcinogen Classification IARC

IARC: 1, 2A, 2B, 3, 4

code:

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

Reproductive toxicity

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

Specific target organ toxicity (single exposure)

| Product/ingredient name | Result |
|-------------------------|--|
| n-butyl acetate | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) |
| | (Narcotic effects) - Category 3 |
| heptan-2-one | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) |
| | (Narcotic effects) - Category 3 |

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|-----------|------------------|
|-----------|------------------|

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Section 11. Toxicological information

<u>Target organs</u>: Contains material which causes damage to the following organs: brain.

Contains material which may cause damage to the following organs: blood, kidneys, lungs, peripheral nervous system, gastrointestinal tract, upper respiratory tract, skin,

central nervous system (CNS), eye, lens or cornea.

Information on the likely routes of exposure

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.

Ingestion: Corrosive to the digestive tract. Causes burns.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain watering redness

Inhalation : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness dryness cracking

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion: Adverse symptoms may include the following:

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Conclusion/Summary

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

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Section 11. Toxicological information

occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Short term exposure

Potential immediate

Potential delayed effects

effects

There are no data available on the mixture itself.

: There are no data available on the mixture itself.

Long term exposure

Potential immediate

effects

There are no data available on the mixture itself.

Potential delayed effects: There are no data available on the mixture itself.

Potential chronic health effects

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

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 : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity: No known significant effects or critical hazards.

Reproductive toxicity: Suspected of damaging fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|------------------|-------------------|--------------------------------|----------------------------------|--|
| VERSAFLEX 468 HG WHITE RESIN | 8722.6 | 6440.2 | N/A | 203.7 | 18.3 |
| barium sulfate | N/A | 2500 | N/A | N/A | N/A |
| n-butyl acetate | 10768 | N/A | N/A | N/A | N/A |
| bis(4-(1,2-bis(ethoxycarbonyl)ethylamino) -3-methylcyclohexyl)methane | 2500 | 2500 | N/A | N/A | N/A |
| Ketimine | 2000 | N/A | N/A | N/A | N/A |
| heptan-2-one | 1600 | 10206 | N/A | 16.7 | 1.5 |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | 3125 | N/A | N/A | N/A | N/A |
| zinc oxide | N/A | 2500 | N/A | N/A | N/A |
| α-[3-[3-(2H-benzotriazol-2-yl) derivatives | N/A | 2500 | N/A | N/A | N/A |
| methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 3125 | N/A | N/A | N/A | N/A |

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Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species |
|---|--|---------------------------------------|
| titanium dioxide | Acute - LC50 - Fresh water | Daphnia - Daphnia magna |
| | >100 mg/l [48 hours] | |
| n-butyl acetate | Acute - LC50 | Fish |
| | OECD 203 | |
| his/4/4/2 his/athasy/asylhamina | 18 mg/l [96 hours] | Fish Denie verie |
| bis(4-(1,2-bis(ethoxycarbonyl)ethylamino) -3-methylcyclohexyl)methane | Acute - LC50 66 mg/l [96 hours] | Fish - Danio rerio |
| -3-methylcyclonexyr/methane | Acute - EC50 | Daphnia - <i>Daphnia magna</i> |
| | 88.6 mg/l [48 hours] | Baprinia - Baprinia magna |
| | Acute - IC50 | Algae - Scenedesmus subspicatus |
| | 113 mg/l [72 hours] | , |
| Ketimine | LC50 | Fish |
| | >53.1 mg/l [96 hours] | |
| | EC50 | Daphnia |
| | 25.9 mg/l [48 hours] | Alma |
| | Acute - EC50 OECD 201 | Algae |
| | 13 mg/l [72 hours] | |
| heptan-2-one | Acute - LC50 | Fish |
| noptan 2 one | 131 mg/l [96 hours] | |
| zinc oxide | Acute - EC50 - Fresh water | Daphnia - Water flea - <i>Daphnia</i> |
| | OECD | magna - Neonate |
| | Age: <24 hours | |
| | 0.481 mg/l [48 hours] | |
| | Intoxication | Alexander |
| | Acute - EC50 | Algae |
| | 0.17 mg/l [72 hours] Chronic - NOEC - Fresh water | Algae |
| | 0.017 mg/l [72 hours] | Aigae |
| Reaction products of | Acute - LC50 | Fish |
| 12-hydroxyoctadecanoic acid and | >100 mg/l [96 hours] | |
| octadecanoic acid and | | |
| 1,3-phenylenedimethanamine | | |
| α-[3-[3-(2H-benzotriazol-2-yl) derivatives | Acute - LC50 | Fish |
| | OECD [Fish, Acute Toxicity Test] | |
| | 2.8 mg/l [96 hours] | Danhaia |
| | Acute - EC50 4 mg/l [48 hours] | Daphnia |
| | Chronic - NOEC | Daphnia |
| | OECD [Daphnia sp. Acute | Бартта |
| | Immobilization Test and | |
| | Reproduction Test] | |
| | 0.23 mg/l [21 days] | |
| | Acute - EC50 | Algae |
| | OECD [Alga, Growth Inhibition | |
| | Test] | |
| | 16.6 mg/l [72 hours] Acute - NOEC | Algae |
| | OECD [Alga, Growth Inhibition | Algae |
| | | |

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Section 12. Ecological information

3.2 mg/l [72 hours]

Conclusion/Summary : Not available.

Persistence and degradability

| Product/ingredient name | Result |
|--|--|
| n-butyl acetate | TEPA and OECD 301D 83% [28 days] - Readily |
| Ketimine | 0% [28 days] - Not readily |
| heptan-2-one | OECD 310 |
| | 69% [28 days] - Readily |
| α-[3-[3-(2H-benzotriazol-2-yl) derivatives | OECD [Ready Biodegradability - CO ₂ Evolution Test] 24% [28 days] - Not readily |

Conclusion/Summary : Not available.

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|--|-------------|-----|-------------|
| n-butyl acetate bis(4-(1,2-bis | 2.3 5.99 | - | Low High |
| (ethoxycarbonyl)ethylamino) -3-methylcyclohexyl)methane heptan-2-one | 2.26 | - | Low |

Mobility in soil

Soil/Water partition coefficient

: Not available.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

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Section 13. Disposal considerations

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

Product code 00463561

| | DOT | IMDG | IATA |
|-----------------------------|--------------------------------|-------------------------------|--|
| UN number | UN3470 | UN3470 | UN3470 |
| UN proper shipping name | PAINT, CORROSIVE, FLAMMABLE | l ' | PAINT, CORROSIVE, FLAMMABLE |
| Transport hazard class (es) | 8 (3) | 8 (3) | 8 (3) |
| Packing group | II | II | II |
| Environmental hazards | No. | Yes. | Yes. The environmentally hazardous substance mark is not required. |
| Marine pollutant substances | Not applicable. | (trizinc bis(orthophosphate)) | Not applicable. |
| Product RQ (lbs) | 27534 | Not applicable. | Not applicable. |
| RQ substances | (xylene) | Not applicable. | Not applicable. |

Additional information

DOT : Package sizes shipped in quantities less than the product reportable quantity are not subject to the

RQ (reportable quantity) transportation requirements.

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.

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

United States

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

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

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Product name VERSAFLEX 468 HG WHITE RESIN

Section 15. Regulatory information

Classification

: FLAMMABLE LIQUIDS - Category 3
SKIN CORROSION - Category 1B
SERIOUS EYE DAMAGE - Category 1
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 1A
TOXIC TO REPRODUCTION - Category 2
HNOC - Corrosive to digestive tract
HNOC - Defatting irritant

Composition/information on ingredients

| Name | % | Classification |
|---|--------------|---|
| titanium dioxide | ≥10 - ≤20 | CARCINOGENICITY - Category 2 |
| n-butyl acetate | ≥5.0 - ≤10 | FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant |
| bis(4-(1,2-bis(ethoxycarbonyl) ethylamino)-3-methylcyclohexyl) methane | ≥5.0 - ≤10 | SKIN SENSITIZATION - Category 1B |
| Ketimine | ≥5.0 - ≤9.5 | ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A HNOC - Corrosive to digestive tract |
| heptan-2-one | ≥1.0 - ≤5.0 | FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant |
| bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate | ≥0.10 - ≤2.7 | SKIN SENSITIZATION - Category 1B TOXIC TO REPRODUCTION - Category 2 |
| Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine | ≥1.0 - ≤5.0 | SKIN SENSITIZATION - Category 1B |
| α-[3-[3-(2H-benzotriazol-2-yl) derivatives | <1.0 | SKIN SENSITIZATION - Category 1A |
| methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate | <1.0 | SKIN SENSITIZATION - Category 1B TOXIC TO REPRODUCTION - Category 2 |
| crystalline silica, non-respirable powder (>10 microns) | ≤1.0 | CARCINOGENICITY - Category 1A |

SARA 313

Supplier notification

Chemical name
Trizinc bis(orthophosphate)
Trizinc oxide

CAS number
7779-90-0
1 - 5
1314-13-2
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.

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Section 15. Regulatory information

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

California Prop. 65

WARNING: Cancer - www.P65Warnings.ca.gov.

Section 16. Other information

Please refer to Section 2 of this document for GHS hazard classifications. The customer is responsible for determining the PPE code for this material.

Date of previous issue : 8/27/2025

Organization that prepared : EHS

the SDS

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 = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group 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.

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