SAFETY DATA SHEET



Date of issue/Date of revision 17 December 2025

Version 18

Section 1. Identification

Product name : SIGMAWELD 199US PASTE REDBROWN

Product code : 00333292
Other means of : Not available.

identification

Product type : Liquid.

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: Not applicable.

Manufacturer : PPG Industries, Inc.

One PPG Place Pittsburgh, PA 15272

Emergency telephone

number

: (412) 434-4515 (U.S.) (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

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

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 59.2%

(oral), 69% (dermal)

GHS label elements

Hazard pictograms







Signal word : Danger

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Section 2. Hazards identification

Hazard statements

: Highly flammable liquid and vapor. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer.

Precautionary statements

Prevention

: 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

F exposed or concerned: Get medical advice or attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Storage Disposal

: Store locked up.

: 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. Emits toxic fumes when heated.

Hazards not otherwise classified

: None known.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Product name

: SIGMAWELD 199US PASTE REDBROWN

| Ingredient name | % | CAS number |
|--|---------|-------------------|
| diron trioxide | 5 - 10 | 1309-37-1 |
| zinc oxide | 5 - 10 | 1314-13-2 |
| Isopropyl alcohol | 5 - 10 | 67-63-0 |
| 1-methoxy-2-propanol | 3 - 7 | 107-98-2 |
| xylene | 1 - 5 | 1330-20-7 |
| ethylbenzene | 0.1 - 1 | 100-41-4 |
| Fatty acids, C18-unsatd., trimers, compds. with oleylamine | 0.1 - 1 | 147900-93-4 |

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.

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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 effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact: May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain or irritation watering

redness

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

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

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Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

: Use dry chemical, CO₂, water spray (fog) or foam.

: Do not use water jet.

Specific hazards arising from the chemical

: Highly 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.

Hazardous thermal decomposition products

Decomposition products may include the following materials: carbon oxides

metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

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

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.

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Section 6. Accidental release measures

Large spill

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

Section 7. Handling and storage

Precautions for safe 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. 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. 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

Do not store above the following temperature: 50°C (122°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 |
|--|---|
| øfiron trioxide | ACGIH TLV (United States, 1/2025) |
| | TWA 8 hours: 5 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. |
| zinc oxide | ACGIH TLV (United States, 1/2025) |
| | TWA 8 hours: 2 mg/m³. Form: Respirable fraction. |
| | 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. |
| Isopropyl alcohol | ACGIH TLV (United States, 1/2025) |
| | TWA 8 hours: 200 ppm. |
| | STEL 15 minutes: 400 ppm. |
| | OSHA PEL (United States, 5/2018) |
| | TWA 8 hours: 400 ppm. |
| | TWA 8 hours: 980 mg/m³. |
| 1-methoxy-2-propanol | ACGIH TLV (United States, 1/2025) |
| | TWA 8 hours: 50 ppm. |
| | TWA 8 hours: 184 mg/m³. |
| | STEL 15 minutes: 100 ppm. STEL 15 minutes: 369 mg/m³. |
| xylene | ACGIH TLV (United States, 1/2025) [p- |
| xylene | xylene and mixtures containing p-xylene] |
| | Ototoxicant. |
| | TWA 8 hours: 20 ppm. |
| | OSHA PEL (United States, 5/2018) [Xylenes] |
| | TWA 8 hours: 100 ppm. |
| | TWA 8 hours: 435 mg/m³. |
| ethylbenzene | ACGIH TLV (United States, 1/2025) |
| • | Ototoxicant. |
| | TWA 8 hours: 20 ppm. |
| | OSHA PEL (United States, 5/2018) |
| | TWA 8 hours: 100 ppm. |
| | TWA 8 hours: 435 mg/m³. |
| Fatty acids, C18-unsatd., trimers, compds. with oleylamine | None. |

Key to abbreviations

A = Acceptable Maximum Peak S = Potential skin absorption
ACGIH = American Conference of Governmental Industrial Hygienists. SR = Respiratory sensitization
C = Ceiling Limit SS = Skin sensitization

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Section 8. Exposure controls/personal protection

F = Fume
IPEL = Internal Permissi

= Internal Permissible Exposure Limit

OSHA = Occupational Safety and Health Administration.

R = Respirable

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

STEL = Short term Exposure limit values

TD = Total dust

TLV = Threshold Limit Value
TWA = Time Weighted Average

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

: 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.

: 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, polyvinyl alcohol (PVA), Viton® May be used: 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. 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.

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Section 8. Exposure controls/personal protection

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

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : Not available. Odor : Characteristic. pН : Not applicable. **Melting point** : Not available.

: >37.78°C (>100°F) **Boiling point**

: Closed cup: 20.56°C (69°F) Flash point

Auto-ignition temperature : Not available. **Decomposition temperature** : Not available. **Flammability** : Not available. Lower and upper explosive : Not available.

(flammable) limits

: 2.9 kPa (21.8 mm Hg) Vapor pressure

Vapor density : Not available.

Relative density 2.59 : 21.61 Density (lbs/gal)

Media Result Solubility(ies) cold water Not soluble

Partition coefficient: n-

octanol/water

: Not applicable.

: Dynamic (room temperature): Not available. **Viscosity**

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

: 80.669 % Solid. (w/w)

Particle characteristics

Median particle size : Not applicable.

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

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

Section 11. Toxicological information

Information on toxicological effects Acute toxicity

| Product/ingredient name | Result | Dose |
|--|---|-----------------------|
| diiron trioxide | Rat - Oral - LD50 | 10 g/kg |
| | Rat - Inhalation - LC50 Dusts and mists | >5 mg/l [4 hours] |
| 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 | |
| Isopropyl alcohol | Rat - Oral - LD50 | 5045 mg/kg |
| | Rabbit - Dermal - LD50 | 12800 mg/kg |
| | Rat - Inhalation - LC50 Vapor | 72600 mg/m³ [4 hours] |
| 1-methoxy-2-propanol | Rabbit - Dermal - LD50 | 13 g/kg |
| | Rat - Oral - LD50 | 5.2 g/kg |
| | Rat - Inhalation - LC50 Vapor | >7000 ppm [6 hours] |
| xylene | Rat - Oral - LD50 | 4.3 g/kg |
| | Rabbit - Dermal - LD50 | 1.7 g/kg |
| ethylbenzene | Rat - Oral - LD50 | 3.5 g/kg |
| | Rabbit - Dermal - LD50 | 17.8 g/kg |
| | Rat - Inhalation - LC50 Vapor | 17.8 mg/l [4 hours] |
| Fatty acids, C18-unsatd., trimers, compds. with oleylamine | Rat - Oral - LD50 | >1570 mg/kg |

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

Skin corrosion/irritation

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Section 11. Toxicological information

| Product/ingredient name | Species | Dose | Score |
|-------------------------|-----------------------------------|---|-------|
| K ylene | Rabbit - Skin - Moderate irritant | Amount/concentration applied: 500 mg Duration of treatment/exposure: 24 hours | - |

Conclusion/Summary

: There are no data available on the mixture itself.

Serious eye damage/eye irritation

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

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

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 |
|-------------------------|------|------|-----|
| diron trioxide | - | 3 | - |
| Isopropyl alcohol | - | 3 | - |
| xylene | - | 3 | - |
| ethylbenzene | - | 2B | - |

Carcinogen Classification

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 |
|-------------------------|--|
| sopropyl alcohol | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| 1-methoxy-2-propanol | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| xylene | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Result |
|-------------------------|---|
| | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) |
| | (gastrointestinal tract, immune system, liver) (oral) - Category 2 |

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Section 11. Toxicological information

Target organs

: Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, heart, spleen, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Aspiration hazard

| Product/ingredient name | Result |
|-------------------------|---|
| | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |

Information on the likely routes of exposure

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact: May cause an allergic skin reaction.

Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

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. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. 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

effects

There are no data available on the mixture itself.

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

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Section 11. Toxicological information

Long term exposure

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

effects

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 : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

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

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) |
|--|------------------|-------------------|--------------------------------|----------------------------------|--|
| MGMAWELD 199US PASTE REDBROWN | 40573.1 | 5032.9 | N/A | 254.6 | 34.7 |
| diiron trioxide | 10000 | N/A | N/A | N/A | N/A |
| zinc oxide | N/A | 2500 | N/A | N/A | N/A |
| Isopropyl alcohol | 5045 | 12800 | N/A | 72.6 | N/A |
| 1-methoxy-2-propanol | 5200 | 13000 | N/A | N/A | N/A |
| xylene | 4300 | 1700 | N/A | 11 | 1.5 |
| ethylbenzene | 3500 | 17800 | N/A | 17.8 | 1.5 |
| Fatty acids, C18-unsatd., trimers, compds. with oleylamine | 500 | N/A | N/A | N/A | N/A |

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species |
|-------------------------|------------------------------|---------------------------------------|
| diron trioxide | Acute - EC50 | Daphnia |
| | OECD 202 | · |
| | >100 mg/l [48 hours] | |
| zinc oxide | Acute - EC50 - Fresh water | Daphnia - Water flea - Daphnia |
| | OECD | magna - Neonate |
| | Age: <24 hours | |
| | 0.481 mg/l [48 hours] | |
| | Intoxication | |
| | Acute - EC50 | Algae |
| | 0.17 mg/l [72 hours] | |
| | Chronic - NOEC - Fresh water | Algae |
| | 0.017 mg/l [72 hours] | |
| Isopropyl alcohol | Acute - EC50 - Fresh water | Daphnia - Water flea - <i>Daphnia</i> |
| | OECD | magna |
| | Age: 8 to 24 hours | |

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Section 12. Ecological information

| | 10.1 g/l [48 hours] Intoxication | |
|----------------------|-------------------------------------|------------------------------|
| 1-methoxy-2-propanol | Acute - LC50 - Fresh water | Fish - Goldfish |
| | >4500 mg/l [96 hours] | |
| | Acute - LC50 | Daphnia - Daphnia |
| | 23300 mg/l [48 hours] | |
| ethylbenzene | Acute - EC50 - Fresh water | Daphnia |
| | 1.8 mg/l [48 hours] | |
| | Chronic - NOEC - Fresh water | Daphnia - Ceriodaphnia dubia |
| | 1 mg/l | , |

Conclusion/Summary : Not available.

Persistence and degradability

| Product/ingredient name | Result |
|-------------------------|-------------------------|
| e thylbenzene | 79% [10 days] - Readily |

Conclusion/Summary : Not available.

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-------------|-----------|
| Sopropyl alcohol | 0.05 | - | Low |
| 1-methoxy-2-propanol | <1 | - | Low |
| xylene | 3.12 | 7.4 to 18.5 | Low |
| ethylbenzene | 3.6 | 79.43 | 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.

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Product name SIGMAWELD 199US PASTE REDBROWN

Section 13. Disposal considerations

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 | IATA |
|-----------------------------|--|--|--|
| UN number | UN1263 | UN1263 | UN1263 |
| UN proper shipping name | PAINT | PAINT | PAINT |
| Transport hazard class (es) | 3 | 3 | 3 |
| Packing group | II | II | II |
| Environmental hazards | No. | Yes. | Yes. The environmentally hazardous substance mark is not required. |
| Marine pollutant substances | Not applicable. | (Zinc powder - zinc dust (stabilized)) | Not applicable. |
| Product RQ (lbs) | 2 314.6 | Not applicable. | Not applicable. |
| RQ substances | (xylene, Zinc powder - zinc dust (stabilized)) | 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.

TSCA 12(b) - Chemical export notification:

Zinc powder - zinc dust (stabilized) Annual notification [Section 6]

SARA 302/304

SARA 304 RQ : Not applicable.

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Section 15. Regulatory information

Composition/information on ingredients

No products were found.

SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 2

EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

Composition/information on ingredients

| Name | % | Classification |
|------------------------------------|--------------|---|
| ⊮ opropyl alcohol | ≥5.0 - ≤10 | FLAMMABLE LIQUIDS - Category 2 |
| | | EYE IRRITATION - Category 2A |
| | | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) |
| | . 5 0 . 10 0 | (Narcotic effects) - Category 3 |
| 1-methoxy-2-propanol | ≥5.0 - ≤8.2 | FLAMMABLE LIQUIDS - Category 3 |
| | | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) |
| vo de me | ≥1.0 - ≤4.3 | (Narcotic effects) - Category 3 |
| xylene | ≥1.0 - ≤4.3 | FLAMMABLE LIQUIDS - Category 3 |
| | | ACUTE TOXICITY (dermal) - Category 4 |
| | | ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 |
| | | EYE IRRITATION - Category 2A |
| | | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) |
| | | (Respiratory tract irritation) - Category 3 |
| | | ASPIRATION HAZARD - Category 1 |
| ethylbenzene | <1.0 | FLAMMABLE LIQUIDS - Category 2 |
| - Carry 12 cm 2 cm | 1.0 | ACUTE TOXICITY (inhalation) - Category 4 |
| | | CARCINOGENICITY - Category 2 |
| | | SPECIFIC TARGET ORGAN TOXICITY (REPEATED |
| | | EXPOSURE) - Category 2 |
| | | ASPIRATION HAZARD - Category 1 |
| | | HNOC - Defatting irritant |
| Fatty acids, C18-unsatd., trimers, | <1.0 | COMBUSTIBLE DUSTS |
| compds. with oleylamine | | ACUTE TOXICITY (oral) - Category 4 |
| | | SKIN IRRITATION - Category 2 |
| | | SKIN SENSITIZATION - Category 1 |
| | | SPECIFIC TARGET ORGAN TOXICITY (REPEATED |
| | | EXPOSURE) - Category 2 |

SARA 313

| | <u>Chemical name</u> | CAS number | Concentration |
|-----------------------|---------------------------------------|------------|----------------------|
| Supplier notification | : Znc powder - zinc dust (stabilized) | 7440-66-6 | 15 - 40 |
| | zinc oxide | 1314-13-2 | 5 - 10 |
| | xylene | 1330-20-7 | 1 - 5 |
| | ethylbenzene | 100-41-4 | 0.1 - 1 |
| | lead massive | 7439-92-1 | 0.0038331 |
| | lead monoxide | 1317-36-8 | 0.0003753 |

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

MARNING: 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 : 2/5/2024
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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