SAFETY DATA SHEET



Date of issue/Date of revision 12 April 2024 Version 3

| Section 1. Identification | | |
|----------------------------------|---|--|
| Product name | : PPG SIGMA SAILADVANCE RX BROWN | |
| Product code | : 000001188846 | |
| Other means of identification | : 00444778 | |
| 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 | |
| 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 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |
| | Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 3.3% (oral), 22% (dermal), 26.5% (inhalation) |
| CHS label elements | |

GHS label elements

Product name PPG SIGMA SAILADVANCE RX BROWN

Section 2. Hazards identification

| Hazard pictograms | |
|-------------------------------------|---|
| Signal word | : Danger |
| Hazard statements | Flammable liquid and vapor. Harmful if swallowed or if inhaled. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. (lungs) |
| Precautionary statements | <u>8</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. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. 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. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of 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. Immediately call a POISON CENTER or doctor. |
| Storage | : Store locked up. Store in a well-ventilated place. Keep cool. |
| 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. Dried Film of This Paint May Be Harmful If Eaten or Chewed. Contains lead. Exposure to lead dust and fumes adversely affects blood and blood forming tissues, kidneys, liver, the central/peripheral nervous systems and male/female reproductive organs. Lead exposure causes adverse developmental effects including brain damage in children and unborn fetuses. 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 | : Prolonged or repeated contact may dry skin and cause irritation. |

Product name PPG SIGMA SAILADVANCE RX BROWN

Section 3. Composition/information on ingredients

- Substance/mixture
- : Mixture

: PPG SIGMA SAILADVANCE RX BROWN

- Product name Other means of identification
- : 00444778

| Ingredient name | % | CAS number |
|---|--------------|-------------|
| dicopper oxide | ≥20 - ≤47 | 1317-39-1 |
| rosin | ≥10 - ≤19 | 8050-09-7 |
| zinc oxide | ≥10 - ≤18 | 1314-13-2 |
| 4-methylpentan-2-one | ≥5.0 - ≤10 | 108-10-1 |
| Solvent naphtha (petroleum), light aromatic | ≥5.0 - ≤8.3 | 64742-95-6 |
| zineb (ISO) | ≥1.0 - ≤5.0 | 12122-67-7 |
| Limestone | ≥1.0 - ≤5.0 | 1317-65-3 |
| 1,2,4-trimethylbenzene | ≥1.0 - ≤5.0 | 95-63-6 |
| diiron trioxide | ≥1.0 - ≤5.0 | 1309-37-1 |
| 3-ethyltoluene | ≥1.0 - ≤5.0 | 620-14-4 |
| xylene | ≥0.10 - ≤2.1 | 1330-20-7 |
| 12-hydroxyoctadecanoic acid, reaction products with | ≤1.7 | 220926-97-6 |
| 1,3-benzenedimethanamine and hexamethylenediamine | | |
| Terpineol | ≥1.0 - ≤5.0 | 8000-41-7 |
| carbon black | ≤1.0 | 1333-86-4 |
| ethylbenzene | <1.0 | 100-41-4 |
| lead monoxide | <0.10 | 1317-36-8 |

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. |
| 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

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Section 4. First aid measures

| Potential acute health effe | <u>cts</u> |
|-----------------------------|---|
| Eye contact | : Causes serious eye damage. |
| Inhalation | : Harmful if inhaled. |
| Skin contact | : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion | : Harmful if swallowed. |
| Over-exposure signs/symp | <u>otoms</u> |
| Eye contact | : Adverse symptoms may include the following: pain watering |
| Inhalation | redness : No specific data. |
| Skin contact | : Adverse symptoms may include the following: |
| | pain or irritation redness dryness cracking blistering may occur |
| Ingestion | : Adverse symptoms may include the following: stomach pains |
| Indication of immediate me | dical attention and special treatment needed, if necessary |
| Notes to physician | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Specific treatments | : No specific treatment. |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

See toxicological information (Section 11)

Section 5. Fire-fighting measures

| Extinguishing media | |
|--|--|
| Suitable extinguishing media | : Use dry chemical, CO ₂ , water spray (fog) or foam. |
| Unsuitable extinguishing media | : Do not use water jet. |
| Specific hazards arising from the chemical | : Flammable liquid and vapor. 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

| | netal oxide/oxides oxides of lead |
|--|--|
| for fire-fighters the transformed to the transforme | Promptly isolate the scene by removing all persons from the vicinity of the incident if here is a fire. No action shall be taken involving any personal risk or without suitable raining. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| | 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. 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 | | |
| 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 co | ontainment 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. 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. Do not apply on toys and other children's articles, furniture, or interior surfaces of any dwelling or facility which may be occupied or used by children. Do not apply on exterior surfaces of dwelling units, such as window sills, porches, stairs, or railings, to which children may be commonly exposed. 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. |

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

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Section 8. Exposure controls/personal protection

| Ingredient name | Exposure limits |
|---|---|
| dícopper oxide | ACGIH TLV (United States, 1/2023). |
| | [Copper Fume] |
| | TWA: 0.2 mg/m ³ 8 hours. Form: Fume |
| rosin | ACGIH TLV (United States, 1/2023). [resin |
| | acids as total Resin acids] Skin sensitizer. |
| | Inhalation sensitizer. |
| | TWA: 0.001 mg/m³, (as total Resin acids) 8 |
| | hours. Form: Inhalable fraction |
| zinc oxide | OSHA PEL (United States, 5/2018). |
| | TWA: 5 mg/m ³ 8 hours. Form: Fume |
| | TWA: 5 mg/m ³ 8 hours. Form: Respirable |
| | fraction |
| | TWA: 15 mg/m ³ 8 hours. Form: Total dust |
| | ACGIH TLV (United States, 1/2023). |
| | STEL: 10 mg/m ³ 15 minutes. Form: |
| | Respirable fraction |
| | TWA: 2 mg/m ³ 8 hours. Form: Respirable |
| | fraction |
| 4-methylpentan-2-one | ACGIH TLV (United States, 1/2023). |
| | STEL: 75 ppm 15 minutes. |
| | TWA: 20 ppm 8 hours. |
| | OSHA PEL (United States, 5/2018). |
| | TWA: 410 mg/m ³ 8 hours. |
| | TWA: 100 ppm 8 hours. |
| Solvent naphtha (petroleum), light aromatic | None. |
| zineb (ISO) | None. |
| Limestone | OSHA PEL (United States, 5/2018). |
| | TWA: 5 mg/m³ 8 hours. Form: Respirable |
| | fraction |
| | TWA: 15 mg/m³ 8 hours. Form: Total dust |
| 1,2,4-trimethylbenzene | ACGIH TLV (United States, 1/2023). |
| | TWA: 10 ppm 8 hours. |
| diiron trioxide | ACGIH TLV (United States, 1/2023). |
| | TWA: 5 mg/m ³ 8 hours. Form: Respirable |
| | fraction |
| | OSHA PEL (United States, 5/2018). |
| | TWA: 5 mg/m ³ 8 hours. Form: Respirable |
| | fraction |
| | TWA: 15 mg/m ³ 8 hours. Form: Total dust |
| 3-ethyltoluene | None. |
| xylene | OSHA PEL (United States, 5/2018). |
| | [Xylenes (o-, m-, p-isomers)] |
| | TWA: 435 mg/m ³ 8 hours. |
| | TWA: 100 ppm 8 hours. |
| | ACGIH TLV (United States, 1/2023). [p- |
| | xylene and mixtures containing p-xylene] |
| | Ototoxicant. |
| | TWA: 20 ppm 8 hours. |
| 12-hydroxyoctadecanoic acid, reaction products with | ACGIH TLV (United States). |
| 1,3-benzenedimethanamine and hexamethylenediamine | |
| | |

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Section 8. Exposure controls/personal protection

| | | TWA: 10 mg/m³ Form: Inhalable particle |
|---|---|---|
| | | TWA: 3 mg/m³, (inhalable dust) Form: |
| | | Respirable particle |
| Terpineol carbon black | | None. |
| | | ACGIH TLV (United States, 1/2023). TWA: 3 mg/m ³ 8 hours. Form: Inhalable |
| | | fraction |
| | | OSHA PEL (United States, 5/2018). |
| | | TWA: 3.5 mg/m ³ 8 hours. |
| ethylbenzene | | ACGIH TLV (United States, 1/2023). |
| | | Ototoxicant. |
| | | TWA: 20 ppm 8 hours. |
| | | OSHA PEL (United States, 5/2018). |
| | | TWA: 435 mg/m³ 8 hours. TWA: 100 ppm 8 hours. |
| lead monoxide | | ACGIH TLV (United States, 1/2023). [Lead |
| | | and inorganic compounds as Pb] |
| | | TWA: 0.05 mg/m³, (as Pb) 8 hours. |
| | | OSHA PEL (United States). |
| | | TWA: 50 μg/m ³ |
| | | OSHA PEL (United States, 5/2018). [Lead |
| | | inorganic (as Pb)] |
| | | TWA: 50 μg/m³, (as Pb) 8 hours. |
| | Key to abbreviations | O Detectivite de constitue |
| A = Acceptable Maximum Pe ACGIH = American Conference of | eak Governmental Industrial Hygienists. | S = Potential skin absorption SR = Respiratory sensitization |
| C = Ceiling Limit | | SS = Skin sensitization |
| F = Fume | | STEL = Short term Exposure limit values |
| IPEL = Internal Permissible Exp OSHA = Occupational Safety and | | TD = Total dust TLV = Threshold Limit Value |
| R = Respirable | | TWA = Time Weighted Average |
| Z = OSHA 29 CFR 1910.120 | 00 Subpart Z - Toxic and Hazardous Substances | |
| 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 | | |
| | recommended or statutory limits. The engineering controls also need to keep ga vapor or dust concentrations below any lower explosive limits. Use explosion-pro ventilation equipment. | |
| Environmental exposure | | ocess equipment should be checked to ensure |
| controls | they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. | |
| | | |

Individual protection measures

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Section 8. Exposure controls/personal protection

| 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 | : Chemical splash goggles and face shield. |
| Skin protection | |
| Hand protection | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
| Gloves | : butyl 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 anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. |
| Other skin protection | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The respiratory protection shall be in accordance to 29 CFR 1910.134. |

Section 9. Physical and chemical properties

| <u>Appearance</u> | | |
|--|---|---------------------------|
| Physical state | : | Liquid. |
| Color | 1 | Brown. |
| Odor | : | Aromatic. [Slight] |
| Odor threshold | 1 | Not available. |
| рН | 1 | Not applicable. |
| Melting point | 1 | Not available. |
| Boiling point | 1 | >37.78°C (>100°F) |
| Flash point | 1 | Closed cup: 28°C (82.4°F) |
| Auto-ignition temperature | : | Not available. |
| Decomposition temperature | : | Not available. |
| Flammability | 1 | Not available. |
| Lower and upper explosive (flammable) limits | : | Not available. |
| Evaporation rate | : | Not available. |
| | | |

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Section 9. Physical and chemical properties

| Vapor pressure | : Not available. | | |
|--|--------------------------|-----------------------------|---|
| Vapor density | : Not available. | | |
| Relative density | : 1.66 | | |
| Density(lbs / gal) | : 13.85 | | |
| Solubility(ies) | Media | Result | |
| | cold water | Not soluble | |
| Partition coefficient: n- octanol/water | : Not applicable. | | I |
| Viscosity | : Kinematic (40°C (10 | 04°F)): >21 mm²/s (>21 cSt) | |
| Volatility | : 🗾 🗖 50% (v/v), 25.748% | » (w/w) | |
| % Solid. (w/w) | : 74.252 | | |
| | | | |

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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|---------------------------------|---------|-------------------------|-------------|
| dicopper oxide | LC50 Inhalation Dusts and mists | Rat | 3.34 mg/l | 4 hours |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | 500 mg/kg | - |
| rosin | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | 7600 mg/kg | - |
| zinc oxide | LC50 Inhalation Dusts and mists | Rat | >5700 mg/m ³ | 4 hours |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| 4-methylpentan-2-one | LC50 Inhalation Vapor | Rat | 11 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | <u> </u> | 1 | United States | Page: 10/19 |

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Section 11. Toxicological information

| - | - | | 1 | |
|------------------------------|---------------------------------|--------|-------------------------|---------|
| | LD50 Oral | Rat | 2.08 g/kg | - |
| Solvent naphtha (petroleum), | LD50 Dermal | Rabbit | 3.48 g/kg | - |
| light aromatic | | | | |
| | LD50 Oral | Rat | 8400 mg/kg | - |
| zineb (ISO) | LD50 Oral | Rat | >2000 mg/kg | - |
| Limestone | LD50 Oral | Rat | 6450 mg/kg | - |
| 1,2,4-trimethylbenzene | LC50 Inhalation Vapor | Rat | 18000 mg/m ³ | 4 hours |
| | LD50 Oral | Rat | 5 g/kg | - |
| diiron trioxide | LC50 Inhalation Dusts and mists | Rat | >5 mg/l | 4 hours |
| | LD50 Oral | Rat | 10 g/kg | - |
| xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| | LD50 Oral | Rat | 4.3 g/kg | - |
| 12-hydroxyoctadecanoic acid, | LC50 Inhalation Dusts and mists | Rat | 3.56 mg/l | 4 hours |
| reaction products with | | | | |
| 1,3-benzenedimethanamine | | | | |
| and hexamethylenediamine | | | | |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >2000 mg/kg | - |
| Terpineol | LD50 Oral | Rat | 4300 mg/kg | - |
| carbon black | LD50 Oral | Rat | >10 g/kg | - |
| ethylbenzene | LC50 Inhalation Vapor | Rat | 17.8 mg/l | 4 hours |
| - | LD50 Dermal | Rabbit | 17.8 g/kg | - |
| | LD50 Oral | Rat | 3.5 g/kg | - |
| | | | | |

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

Irritation/Corrosion

| Product/ingredient name | Result | | Species | Score | Exposure | Observation |
|-------------------------|--------------------|------------|---------------|-------------|--------------------|-------------|
| x ylene | Skin - Moderate in | ritant | Rabbit | - | 24 hours 500 mg | - |
| Terpineol | Skin - Irritant | | Rabbit | - | - | - |
| Conclusion/Summary | | | | | | |
| Skin | : There are no dat | a availabl | e on the mixt | ure itself. | | |
| Eyes | : There are no dat | a availabl | e on the mixt | ure itself. | | |
| Respiratory | : There are no dat | a availabl | e on the mixt | ure itself. | | |
| <u>Sensitization</u> | | | | | | |
| Product/ingredient name | Route of | Species | ; | R | esult | |
| | exposure | | | | | |
| zineb (ISO) | skin | Guinea | oig | S | ensitizing | |
| Terpineol | skin | Guinea | pig | Se | ensitizing | |
| Conclusion/Summary | | | | | | |
| Skin | : zineb (ISO): We | akly posit | ive. | | | |
| Respiratory | : There are no dat | a availabl | e on the mixt | ure itself. | | |
| <u>Mutagenicity</u> | | | | | | |
| Conclusion/Summary | : There are no dat | a availabl | e on the mixt | ure itself. | | |
| Carcinogenicity | | | | | | |
| Conclusion/Summary | : There are no dat | a availabl | e on the mixt | ure itself. | | |
| Classification | | | | | | |

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Section 11. Toxicological information

| Product/ingredient name | OSHA | IARC | NTP |
|-------------------------|------|------|-----|
| и methylpentan-2-one | - | 2B | - |
| zineb (ISO) | - | 3 | - |
| diiron trioxide | - | 3 | - |
| xylene | - | 3 | - |
| carbon black | - | 2B | - |
| ethylbenzene | - | 2B | - |

Carcinogen Classification code:

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

Teratogenicity

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

Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|---|------------|-------------------|---------------------------------|
| 4-methylpentan-2-one | Category 3 | - | Narcotic effects |
| Solvent naphtha (petroleum), light aromatic | Category 3 | - | Narcotic effects |
| zineb (ISO) | Category 3 | - | Respiratory tract irritation |
| 1,2,4-trimethylbenzene | Category 3 | - | Respiratory tract irritation |
| xylene | Category 3 | - | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

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

Target organs

: Contains material which causes damage to the following organs: brain, central nervous system (CNS).

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, gastrointestinal tract, upper respiratory tract, skin, eye, lens or cornea.

Aspiration hazard

United States

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Product name PPG SIGMA SAILADVANCE RX BROWN

Section 11. Toxicological information

| Name | | Result |
|--|---|--|
| Solvent naphtha (petroleum), light aromatic 3-ethyltoluene xylene Terpineol ethylbenzene | | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |
| nformation on the likely re | outes of exposure | |
| Potential acute health eff | <u>ects</u> | |
| Eye contact Inhalation Skin contact Ingestion | : Harmful if swallowed. | ing to the skin. May cause an allergic skin reaction. |
| Over-exposure signs/syn | | |
| Eye contact Inhalation Skin contact | Adverse symptoms may inclupain watering redness No specific data. Adverse symptoms may inclupain or irritation redness dryness cracking blistering may occur | |
| Ingestion | Adverse symptoms may inclusion stomach pains | ide the following: |
| Delayed and immediate eff | ects and also chronic effects from | <u>m short and long term exposure</u> |
| Conclusion/Summary | and fumes adversely affects a peripheral nervous systems a causes adverse development fetuses. Exposure to compo occupational exposure limit n membrane and respiratory sy and central nervous system. muscular weakness, drowsin Solvents may cause some of some evidence that repeated constant loud noise can caus noise alone. If splashed in th damage. Ingestion may cause where known, delayed and in | on the mixture itself. Contains lead. Exposure to lead dus blood and blood forming tissues, kidneys, liver, the central and male/female reproductive organs. Lead exposure tal effects including brain damage in children and unborn onent solvent vapor concentrations in excess of the stated may result in adverse health effects such as mucous vstem irritation and adverse effects on the kidneys, liver Symptoms and signs include headache, dizziness, fatigue ess and, in extreme cases, loss of consciousness. The above effects by absorption through the skin. There is exposure to organic solvent vapors in combination with the greater hearing loss than expected from exposure to ble eyes, the liquid may cause irritation and reversible se nausea, diarrhea and vomiting. This takes into account mediate effects and also chronic effects of components in exposure by oral, inhalation and dermal routes of |
| Potential immediate effects Potential delayed effects | There are no data available of There are no data available of | |

Product name PPG SIGMA SAILADVANCE RX BROWN

Section 11. Toxicological information

| | - | |
|-----------------------------|---|--|
| 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 ef | <u>></u> | |
| General | May cause damage to organs through prolonged or repeated exposure. 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 | 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/ I) |
|---|------------------|-------------------|--------------------------------|----------------------------------|---|
| PPG SIGMA SAILADVANCE RX BROWN | 1543.7 | 3368.0 | N/A | 64.4 | 4.0 |
| dicopper oxide | 500 | 2500 | N/A | N/A | 3.34 |
| rosin | 7600 | 2500 | N/A | N/A | N/A |
| zinc oxide | N/A | 2500 | N/A | N/A | N/A |
| 4-methylpentan-2-one | 2080 | N/A | N/A | 11 | 1.5 |
| Solvent naphtha (petroleum), light aromatic | 8400 | 3480 | N/A | N/A | N/A |
| zineb (ISO) | 2500 | N/A | N/A | N/A | N/A |
| Limestone | 6450 | N/A | N/A | N/A | N/A |
| 1,2,4-trimethylbenzene | 5000 | N/A | N/A | 18 | 1.5 |
| diiron trioxide | 10000 | N/A | N/A | N/A | N/A |
| xylene | 4300 | 1700 | N/A | 11 | 1.5 |
| 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine | 2500 | 2500 | N/A | N/A | 3.56 |
| Terpineol | 4300 | N/A | N/A | N/A | N/A |
| ethylbenzene | 3500 | 17800 | N/A | 17.8 | 1.5 |

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|--|-------------------------------------|---|-------------|
| dícopper oxide | LC50 0.003 mg/l | Fish | 96 hours |
| zinc oxide | Acute EC50 0.17 mg/l | Algae | 72 hours |
| | Acute EC50 0.481 mg/l Fresh water | Daphnia - <i>Daphnia magna</i> - Neonate | 48 hours |
| | Chronic NOEC 0.017 mg/l Fresh water | Algae | 72 hours |
| 4-methylpentan-2-one | Acute LC50 >179 mg/l | Fish | 96 hours |
| Solvent naphtha (petroleum), light aromatic | Acute LC50 8.2 mg/l | Fish | 96 hours |
| | | United States | Page: 14/19 |

Product name PPG SIGMA SAILADVANCE RX BROWN

Section 12. Ecological information

| Limestone | Acute LC50 >56000 mg/l | Fish | 96 hours |
|--|---------------------------------|---|----------|
| diiron trioxide | Acute EC50 >100 mg/l | Daphnia | 48 hours |
| 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine | Acute EC50 >100 mg/l | Algae - Pseudokirchneriella subcapitata (microalgae) | 72 hours |
| | Acute EC50 >100 mg/l | Daphnia - <i>Daphnia magna</i> (Water flea) | 48 hours |
| | Acute LC50 >100 mg/l | Fish - Oncorhynchus mykiss (rainbow trout) | 96 hours |
| | Chronic NOEC 100 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Chronic NOEC ≥50 mg/l | Daphnia - <i>Daphnia magna</i> (Water flea) | 21 days |
| ethylbenzene | Acute EC50 1.8 mg/l Fresh water | Daphnia | 48 hours |
| - | Chronic NOEC 1 mg/l Fresh water | Daphnia - Ceriodaphnia dubia | - |

Persistence and degradability

| Product/ingredient name | Test | Result | | Dose | | Inoculum |
|--|--|------------|------------------------------------|------|-------------------------------|------------|
| 4-methylpentan-2-one 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine | OECD 301F OECD 301D Ready Biodegradability - Closed Bottle Test | | dily - 28 days eadily - 29 days | - | | - |
| ethylbenzene | - | 79 % - Rea | dily - 10 days | - | | - |
| Product/ingredient name | Aquatic half-life | | Photolysis | | Biodeg | radability |
| ✓-methylpentan-2-one xylene ethylbenzene | - - - | | - | | Readily Readily Readily | |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|--|------------|-------------|-----------|
| P osin | 1.9 to 7.7 | - | High |
| 4-methylpentan-2-one | 1.9 | - | Low |
| zineb (ISO) | 1.3 | - | Low |
| 1,2,4-trimethylbenzene | 3.63 | 120.23 | Low |
| 3-ethyltoluene | 3.98 | - | Low |
| xylene | 3.12 | 7.4 to 18.5 | Low |
| 12-hydroxyoctadecanoic acid, reaction products with | >6 | - | High |
| 1,3-benzenedimethanamine and hexamethylenediamine | | | |
| Terpineol | 2.6 | - | Low |
| ethylbenzene | 3.6 | 79.43 | Low |

Mobility in soil

| United States | Page: 15/19 |
|---------------|-------------|
| | |

Product name PPG SIGMA SAILADVANCE RX BROWN

Section 12. Ecological information

Soil/water partition coefficient (Koc)

: 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.

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

| | DOT | IMDG | ΙΑΤΑ | |
|--------------------------------|-----------------|------------------|--|--|
| UN number | UN1263 | UN1263 | UN1263 | |
| UN proper shipping name | PAINT | PAINT | PAINT | |
| Transport hazard class (es) | 3 | 3 | 3 | |
| Packing group | 111 | | | |
| Environmental hazards | No. | Yes. | Yes. The environmentally hazardous substance mark is not required. | |
| Marine pollutant substances | Not applicable. | (dicopper oxide) | Not applicable. | |
| Product RQ (lbs) | 7881.6 | Not applicable. | Not applicable. | |
| RQ substances | (xylene) | Not applicable. | Not applicable. | |

14. Transport information

| Additional in | nformation |
|---------------|--|
| 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. |
| ΙΑΤΑ | : The environmentally hazardous substance mark may appear if required by other transportation regulations. |

Product name PPG SIGMA SAILADVANCE RX BROWN

14. Transport information

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

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

United States

United States inventory (TSCA 8b) : At least one component is not listed.

SARA 302/304 SARA 304 RQ

: Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

| Classification | : FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SECUEIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |
|----------------|--|
| | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 HNOC - Defatting irritant |

Composition/information on ingredients

| Name | % | Classification |
|--|-------------|--|
| dicopper oxide | ≥20 - ≤47 | ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE - Category 1 |
| rosin | ≥10 - ≤19 | COMBUSTIBLE DUSTS SKIN SENSITIZATION - Category 1B |
| 4-methylpentan-2-one | ≥5.0 - ≤10 | FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant |
| Solvent naphtha (petroleum), light aromatic | ≥5.0 - ≤8.3 | FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant |
| zineb (ISO) | ≥1.0 - ≤5.0 | COMBUSTIBLE DUSTS SKIN SENSITIZATION - Category 1B |
| | | United States Page: 17/19 |

Product name PPG SIGMA SAILADVANCE RX BROWN

Section 15. Regulatory information

| | | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) |
|------------------------------|--------------|--|
| | | (Respiratory tract irritation) - Category 3 |
| 1,2,4-trimethylbenzene | ≥1.0 - ≤5.0 | FLAMMABLE LIQUIDS - Category 3 |
| | | ACUTE TOXICITY (inhalation) - Category 4 |
| | | SKIN IRRITATION - Category 2 |
| | | EYE IRRITATION - Category 2A |
| | | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) |
| | | (Respiratory tract irritation) - Category 3 |
| | | HNOC - Defatting irritant |
| 3-ethyltoluene | ≥1.0 - ≤5.0 | FLAMMABLE LIQUIDS - Category 3 |
| | | ASPIRATION HAZARD - Category 1 |
| | | HNOC - Defatting irritant |
| xylene | ≥0.10 - ≤2.1 | 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 |
| | | ASPIRATIÓN HAZARD - Ćategory 1 |
| 12-hydroxyoctadecanoic acid, | ≤1.7 | COMBUSTIBLE DUSTS |
| reaction products with | | ACUTE TOXICITY (inhalation) - Category 4 |
| 1,3-benzenedimethanamine and | | SPECIFIC TARGET ORGAN TOXICITY (REPEATED |
| hexamethylenediamine | | EXPOSURE) - Category 2 |
| Terpineol | ≥1.0 - ≤5.0 | FLAMMABLE LIQUIDS - Category 4 |
| • | | SKIN IRRITATION - Category 2 |
| | | EYE IRRITATION - Category 2A |
| | | SKIN SENSITIZATION - Category 1B |
| | | ASPIRATION HAZARD - Category 1 |
| carbon black | ≤1.0 | COMBUSTIBLE DUSTS |
| | | CARCINOGENICITY - Category 2 |
| ethylbenzene | <1.0 | FLAMMABLE LIQUIDS - Category 2 |
| | | ACUTE TOXICITY (inhalation) - Category 4 |
| | | CARCINOGENICITY - Category 2 |
| | | SPECIFIC TARGET ORGAN TOXICITY (REPEATED |
| | | EXPOSURE) - Category 2 |
| | | ASPIRATION HAZARD - Category 1 |
| | | HNOC - Defatting irritant |
| | | |

SARA 313

| | Chemical name | CAS number | Concentration |
|-----------------------|------------------------|------------|----------------------|
| Supplier notification | : dícopper oxide | 1317-39-1 | 10 - 30 |
| | zinc oxide | 1314-13-2 | 7 - 13 |
| | 4-methylpentan-2-one | 108-10-1 | 5 - 10 |
| | zineb (ISO) | 12122-67-7 | 1 - 5 |
| | 1,2,4-trimethylbenzene | 95-63-6 | 1 - 5 |
| | xylene | 1330-20-7 | 0.5 - 1.5 |
| | ethylbenzene | 100-41-4 | 0.1 - 1 |
| | lead monoxide | 1317-36-8 | 0.010573 |

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

Product name PPG SIGMA SAILADVANCE RX BROWN

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 and Reproductive Harm - www.P65Warnings.ca.gov.

Section 16. Other information

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

Health : 3 * Flammability : 3 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 and the associated label are not required on MSDSs or products leaving a facility 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 trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

| Health : 3 Flammat Date of previous issue Organization that prepared the SDS | pility : 3 Instability : 1 : 12/1/2023 : 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 = International Air Transport Association IBC = 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.