SAFETY DATA SHEET



The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2015.

Date of issue/Date of revision 4 September 2023 Version 3

| Section 1. Identification | | |
|----------------------------------|---|--|
| Product name | : SIGMASHIELD 420 BASE GREY 5177 | |
| Product code | : 00445401 | |
| Other means of identification | : Not available. | |
| 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. | |
| Supplier | PPG Architectural Coatings Canada, Inc. 1550, rue Ampère, bureau 500 Boucherville (Québec) J4B 7L4 Canada +1 450-655-3121 | |
| | 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. Hazard identification

| Classification of the substance or mixture | FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Health Hazards Not Otherwise Classified - Category 1 |
|---|--|
| | Healur Hazarus Not Otherwise Classined - Calegory T |

Product name SIGMASHIELD 420 BASE GREY 5177

Section 2. Hazard identification

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).

GHS label elements Hazard pictograms Signal word : Danger **Hazard statements** : Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. May cause respiratory irritation. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. (hearing organs) Prolonged or repeated contact may dry skin and cause irritation. **Precautionary statements 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 only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. : IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove Response person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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. : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Storage : Dispose of contents and container in accordance with all local, regional, national Disposal and international regulations. **Supplemental label** : Sanding and grinding dusts may be harmful if inhaled. This product contains elements 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. 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. Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 32.3% (oral), 58.3% (dermal), 82.9% (inhalation)

Canada Page: 2/18

Section 3. Composition/information on ingredients

| Substance/mixture | : Mixture |
|-------------------------------|----------------------------------|
| Product name | : SIGMASHIELD 420 BASE GREY 5177 |
| Other means of identification | : Not available. |

CAS number/other identifiers

| Ingredient name | Synonyms | % (w/w) | CAS number |
|---|--|----------|-------------------|
| erystalline silica, respirable powder (>10 microns) | alpha-quartz; Silica, crystalline (quartz); Silica, Crystalline Quartz; SILICA, CRYSTALLINE, QUARTZ; Silica- Crystalline, Quartz; Silica - Crystalline Quartz; Silica-Crystalline : Quartz; Silica, crystalline - quartz | 15 - 40 | 14808-60-7 |
| reaction product: bisphenol-A- (epichlorhydrin); epoxy resin | epoxy resin; 4,4'-lsopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane; Phenol, 4,4'- (1-methylethylidene)bis-, polymer with 2- (chloromethyl)oxirane; Phenol, 4,4'- (1-methylethylidene)bis-, polymer with (chloromethyl)oxirane; phenol, 4,4'- (1-methylethylidene)bis-, polymer with 2- (chloromethyl)oxirane; oxirane, (chloromethyl)-, polymer with 4,4'- (1-methylethylidene)bis[phenol]; Bisphenol A, epichlorohydrin polymer; Epichlorohydrin, bisphenol A resin; poly{ (4,4'-propane-2,2-diyldiphenol)-co-[2- (chloromethyl)oxirane]}; BADGE; DGEBPA; diglycidyl ether of bis¬phenol A; bisphenol A)-epichloridrin copolymer; poly [4,4'-(1-methylethylidene)bisphenol-co- (chloromethyl)oxirane] | 10 - 30* | 25068-38-6 |
| Talc , not containing asbestiform fibres | Talc; magnesium silicate monohydrate (talc) not containing asbestiform fibres | 7 - 13* | 14807-96-6 |
| xylene | Benzene, dimethyl-; Xylol; xylene, mixed isomers, pure; xylene, crude; Benzene, dimethyl-,; Xylene (mixed); Xylenes; Dimethylbenzene; XYLENES (Isomer Mixture); xylene (mixture), including m- xylene, o-xylene, p-xylene; XYLENE, mixture of isomers | 5 - 10* | 1330-20-7 |
| titanium dioxide | Titanium oxide; Titanium oxide (TiO2); Cl 77891; Titanium peroxide; Rutile; C.I. Pigment White 6; titanium dioxide coated with isopropoxytitanium triisostearate, containing by weight 1,5 % or more but not more than 2,5 % of isopropoxytitanium triisostearate; glass flakes (CAS RN 65997-17-3): — of a thickness of 0,3 μ m or more but not more | 1 - 5* | 13463-67-7 |
| | | | Canada Page: 3/18 |

Product name SIGMASHIELD 420 BASE GREY 5177

Section 3. Composition/information on ingredients

| | | 15 | |
|---------------------|---|------------|------------|
| | than 10 μm, and — coated with titanium dioxide (CAS RN 13463-67-7) or iron oxide (CAS RN 18282- 10-5); titanium dioxide, other than those of heading 3206 11 00; C.I. 77891; E 171; titanium(IV) oxide, other than those of heading 3206 11 00 | | |
| 2-methylpropan-1-ol | iso-butanol; 1-Propanol, 2-methyl-; Isobutyl alcohol; Isobutanol; 2-Methyl- 1-propanol; Isopropylcarbinol; IBA; i-Butyl alcohol; catalyst consisting predominantly of dinonylnaphthalenedisulphonic acid in the form of a solution in isobutanol; isobutanol; iso-butanol; Isobutyl alcohol (I, T) | 1 - 5* | 78-83-1 |
| ethylbenzene | Benzene, ethyl-; Phenylethane; Ethylbenzol; photosensitive emulsion consisting of cyclized polyisoprene containing: — 55 % or more but not more than 75 % by weight of xylene (CAS RN 1330-20-7) and — 12 % or more but not more than 18 % by weight of ethylbenzene (CAS RN 100-41-4); EB; Mono-(or di-) methyl (ethyl,bromoallyl, bromopropyloxycarbonyl orchloropropyloxycarbonyl) benzene | 1 - 5* | 100-41-4 |
| nonylphenol | Phenol, nonyl-; Nonylphenol (mixed isomers); Monononylphenol; preparation containing nonylphenols; NONYLPHENOL (isomer mixture); (2,6-Dimethylheptan-4-yl)phenol, mixed isomers; nonylphenol ethoxylates; Nonylphenol and preparations containing it; Monoalkyl(C3-9)phenol; Nonylphenols; Mixed ortho and para nonyl phenols | 0.5 - 1.5* | 25154-52-3 |

*Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

SUB codes represent substances without registered CAS Numbers.

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

Product name SIGMASHIELD 420 BASE GREY 5177

Section 4. 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/e | ffeo | cts, acute and delayed |
|------------------------------|------------|---|
| Potential acute health effec | <u>ts</u> | |
| Eye contact | 1 | Causes serious eye damage. |
| Inhalation | 1 | Harmful if inhaled. May cause respiratory irritation. |
| Skin contact | 1 | Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion | 1 | No known significant effects or critical hazards. |
| Over-exposure signs/symp | ton | <u>15</u> |
| Eye contact | : | Adverse symptoms may include the following: pain watering redness |
| Inhalation | : | Adverse symptoms may include the following: respiratory tract irritation coughing 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 med | <u>ica</u> | l 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 | 1 | 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. |
| | | Canada Page: 5/18 |

Product name SIGMASHIELD 420 BASE GREY 5177

Section 4. First-aid measures

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. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. |
| Hazardous thermal decomposition products | : Decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides |
| Special protective actions for fire-fighters | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. 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, protect | iv | e 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 | : | 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 co | nta | ainment 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. |

Product name SIGMASHIELD 420 BASE GREY 5177

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. 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. |

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|---|---|
| rystalline silica, respirable powder (>10 microns) | CA British Columbia Provincial (Canada, 6/2022). [Silica, Crystalline - alpha quartz and Cristobalite Respirable] TWA: 0.025 mg/m ³ 8 hours. Form: Respirable CA Ontario Provincial (Canada, 6/2019). [Silica, Crystalline (Quartz/Tripoli)] TWA: 0.1 mg/m ³ 8 hours. Form: Respirable CA Quebec Provincial (Canada, 6/2022). [Silica Crystalline -Quartz] TWAEV: 0.1 mg/m ³ 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 0.025 mg/m ³ 8 hours. Form: Respirable particulate CA Saskatchewan Provincial (Canada, 7/2013). TWA: 0.05 mg/m ³ 8 hours. Form: respirable fraction |
| reaction product: bisphenol-A-(epichlorhydrin); epoxy resin Talc , not containing asbestiform fibres | None. CA British Columbia Provincial (Canada, 6/2022). TWA: 2 mg/m ³ 8 hours. Form: Respirable CA Ontario Provincial (Canada). TWA: 2 ppb Form: Respirable TWA: 2 mg/m ³ Form: Respirable CA Quebec Provincial (Canada, 6/2022). TWAEV: 2 mg/m ³ 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 2 mg/m ³ 8 hours. Form: Respirable particulate CA Ontario Provincial (Canada, 6/2019). TWA: 2 mg/m ³ 8 hours. Form: Respirable particulate matter. CA Saskatchewan Provincial (Canada, 7/2013). TWA: 2 mg/m ³ 8 hours. Form: respirable fraction |
| xylene | CA Alberta Provincial (Canada, 6/2018). [Dimethylbenzene (o,m & p isomers)] 15 min OEL: 651 mg/m ³ 15 minutes. 15 min OEL: 150 ppm 15 minutes. 8 hrs OEL: 434 mg/m ³ 8 hours. 8 hrs OEL: 100 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). [Xylene (o, m & p isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). |

Product name SIGMASHIELD 420 BASE GREY 5177

Section 8. Exposure controls/personal protection

| | [Xylene (o-,m-,p- isomers)] STEV: 651 mg/m ³ 15 minutes. STEV: 150 ppm 15 minutes. TWAEV: 434 mg/m ³ 8 hours. TWAEV: 100 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). [Xylene (o-, m-, p-isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Xylene (o, m-, p-isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. |
|---------------------|--|
| titanium dioxide | CA British Columbia Provincial (Canada, 6/2022). [Titanium dioxide] TWA: 10 mg/m³ 8 hours. Form: Total dust TWA: 3 mg/m³ 8 hours. Form: respirable fraction CA Quebec Provincial (Canada, 6/2022). TWAEV: 10 mg/m³ 8 hours. Form: Total dust. CA Alberta Provincial (Canada, 6/2018). Skin sensitizer. 8 hrs OEL: 10 mg/m³ 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 10 mg/m³ 8 hours. Form: total dust CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m³ 15 minutes. TWA: 10 mg/m³ 8 hours. |
| 2-methylpropan-1-ol | CA Alberta Provincial (Canada, 6/2018). Skin sensitizer. 8 hrs OEL: 152 mg/m ³ 8 hours. 8 hrs OEL: 50 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). TWA: 50 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). TWAEV: 152 mg/m ³ 8 hours. TWAEV: 152 mg/m ³ 8 hours. TWAEV: 50 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 60 ppm 15 minutes. TWA: 50 ppm 8 hours. |
| ethylbenzene | CA Alberta Provincial (Canada, 6/2018). 15 min OEL: 543 mg/m ³ 15 minutes. 15 min OEL: 125 ppm 15 minutes. 8 hrs OEL: 434 mg/m ³ 8 hours. 8 hrs OEL: 100 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). Canada Page: 9/18 |

Product name SIGMASHIELD 420 BASE GREY 5177

Section 8. Exposure controls/personal protection

| | TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022) TWAEV: 20 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. | - |
|------------------------------------|---|---------------|
| nonylphenol | None. | |
| Consult local authorities for | eptable 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 con also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. | trols |
| Environmental exposure controls | Emissions from ventilation or work process equipment should be checked to en- they comply with the requirements of environmental protection legislation. In so cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. | |
| Individual protection measu | | |
| Hygiene measures | Wash hands, forearms and face thoroughly after handling chemical products, be eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated cloth 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. | hing. |
| Eye/face protection | Chemical splash goggles and face shield. | |
| Skin protection Hand protection | Chemical-resistant, impervious gloves complying with an approved standard sho be worn at all times when handling chemical products if a risk assessment indice this is necessary. Considering the parameters specified by the glove manufacture 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 or several substances, the protection time of the gloves cannot be accurately estimated. | ates urer, |
| Gloves Body protection | butyl rubber Personal protective equipment for the body should be selected based on the tas 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 electrici 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. | e |

Product name SIGMASHIELD 420 BASE GREY 5177

Section 8. Exposure controls/personal protection

| respirator complying with an approved standard if a risk assessment indicates this is necessary. | hazards o workers a appropria | or selection must be based on known or anticipated exposure levels, the of the product and the safe working limits of the selected respirator. If are exposed to concentrations above the exposure limit, they must use te, certified respirators. Use a properly fitted, air-purifying or air-fed |
|--|-------------------------------------|---|
|--|-------------------------------------|---|

Section 9. Physical and chemical properties

| <u>Appearance</u> | | | |
|--|---|-------------------------|-------------|
| Physical state | 1 | Liquid. | |
| Color | 1 | Gray. | |
| Odor | 1 | Characteristic. | |
| Odor threshold | 1 | Not available. | |
| рН | 4 | Not applicable. | |
| Melting point | 4 | Not available. | |
| Boiling point | 4 | >37.78°C (>100°F) | |
| Flash point | 1 | Closed cup: 25°C (77°F) | |
| Auto-ignition temperature | 1 | Not available. | |
| Decomposition temperature | 1 | Not available. | |
| Flammability | 1 | Not available. | |
| Lower and upper explosive (flammable) limits | : | Not available. | |
| Evaporation rate | 1 | Not available. | |
| Vapor pressure | 1 | Not available. | |
| Vapor density | 1 | Not available. | |
| Relative density | 1 | 1.36 | |
| Density(lbs / gal) | 1 | 11.35 | |
| Solubility(ies) | | Media | Result |
| Solubility(les) | 1 | cold water | Not soluble |
| | | | |
| Partition coefficient: n- octanol/water | : | Not applicable. | |
| | : | | |
| octanol/water | : | 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. |
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Product name SIGMASHIELD 420 BASE GREY 5177

Section 10. Stability and reactivity

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 halogenated compounds metal oxide/oxides |

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|------------------------------|---------------------------------|---------|-------------|----------|
| reaction product: bisphenol- | LD50 Dermal | Rabbit | >2 g/kg | - |
| A-(epichlorhydrin); epoxy | | | | |
| resin | | | | |
| | LD50 Oral | Rat | >2 g/kg | - |
| xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| - | LD50 Oral | Rat | 4.3 g/kg | - |
| titanium dioxide | LC50 Inhalation Dusts and mists | Rat | >6.82 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| 2-methylpropan-1-ol | LC50 Inhalation Vapor | Rat | 24.6 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 2460 mg/kg | - |
| | LD50 Oral | Rat | 2830 mg/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 | - |
| nonylphenol | LD50 Dermal | Rabbit | 2.14 g/kg | - |
| | LD50 Oral | Rat | 580 mg/kg | - |

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|--------------------------|---------|-------|--------------------|-------------|
| Peaction product: bisphenol-A- (epichlorhydrin); epoxy resin | Eyes - Mild irritant | Rabbit | - | 100 mg | - |
| | Eyes - Moderate irritant | Rabbit | - | - | - |
| | Skin - Moderate irritant | Rabbit | - | - | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 Ul | - |
| | Skin - Severe irritant | Rabbit | - | 24 hours 2 mg | - |
| xylene | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |

Conclusion/Summary

: There are no data available on the mixture itself.

Eyes

Respiratory

There are no data available on the mixture itself.There are no data available on the mixture itself.

Sensitization

Skin

Product name SIGMASHIELD 420 BASE GREY 5177

Section 11. Toxicological information

| | | | - | | - |
|---------------------------------|--|------|---------|-----|-------------|
| Product/ingredient name | Route o exposu | | Species | ; | Result |
| A-(epichlorhydrin); epoxy resin | skin | | Mouse | | Sensitizing |
| Skin | : There are no data available on the mixture itself. | | | | |
| Respiratory | : There are no data available on the mixture itself. | | | | |
| Mutagenicity | | | | | |
| Conclusion/Summary | : There are no data available on the mixture itself. | | | | lf. |
| Carcinogenicity | | | | | |
| Conclusion/Summary | : There are no data available on the mixture itself. | | | | |
| Classification | | | | | |
| Product/ingredient name | C | OSHA | IARC | NTP | |
| | | | | | |

| OSHA | IARC | NTP |
|------|--------------------------|---------------------------------|
| - | 1 | Known to be a human carcinogen. |
| | | |
| - | 3 | - |
| - | 2B | - |
| - | 2B | - |
| _ | OSHA - - - - | - 1 - 3 - 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 |
|---------------------|------------|-------------------|---------------------------------|
| | Category 3 | - | Respiratory tract irritation |
| xylene | Category 3 | - | Respiratory tract irritation |
| 2-methylpropan-1-ol | Category 3 | - | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |

Specific target organ toxicity (repeated exposure)

| Name | | Category | Route of exposure | Target organs |
|---------------|------------------------------|---------------|---------------------|-----------------------|
| ethylbenzene | | Category 2 | - | hearing organs |
| Target organs | · Contains material which or | usos domogo t | the following organ | s: liver spleen brain |

Target organs

Contains material which causes damage to the following organs: liver, spleen, brain, bone marrow.

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, bladder, cardiovascular system, upper respiratory tract, immune system, skin, central nervous system (CNS), ears, eye, lens or cornea.

| Canada | Page: 13/18 |
|--------|-------------|
|--------|-------------|

Section 11. Toxicological information

Aspiration hazard

| Name | Result |
|------|--|
| | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |

Information on the likely routes of exposure

Potential acute health effects

| Causes senous eye damage. |
|---|
| : Harmful if inhaled. May cause respiratory irritation. |
| : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| : No known significant effects or critical hazards. |
| |

Over-exposure signs/symptoms

| Eye contact | : Adverse symptoms may include the following: pain watering redness |
|--------------------------|--|
| Inhalation | : Adverse symptoms may include the following: respiratory tract irritation coughing 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 ef | fects 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 |

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).

Product name SIGMASHIELD 420 BASE GREY 5177

Section 11. Toxicological information

| | | 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. |
| <u>Short term exposure</u> | | |
| Potential immediate effects | : | There are no data available on the mixture itself. |
| Potential delayed effects | : | 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 eff | <u>ect</u> | <u>S</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 | : | 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 managered of toxic | | |

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) |
|--|------------------|-------------------|--------------------------------|----------------------------------|--|
| GMASHIELD 420 BASE GREY 5177 reaction product: bisphenol-A-(epichlorhydrin); epoxy resin | 4588.7 2500 | 2685.5 2500 | N/A N/A | 20.1 N/A | 2.6 N/A |
| xylene | 4300 | 1700 | N/A | 11 | 1.5 |
| 2-methylpropan-1-ol | 2830 | 2460 | N/A | 24.6 | N/A |
| ethylbenzene | 3500 | 17800 | N/A | 17.8 | 1.5 |
| nonylphenol | 580 | 2140 | N/A | N/A | N/A |

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|--|-------------------------------------|------------------------------------|----------|
| Peaction product: bisphenol- A-(epichlorhydrin); epoxy resin | Chronic NOEC 0.3 mg/l | Daphnia | 21 days |
| titanium dioxide | Acute LC50 >100 mg/l Fresh water | Daphnia - <i>Daphnia magna</i> | 48 hours |
| 2-methylpropan-1-ol | Acute EC50 1100 mg/l | Daphnia | 48 hours |
| ethylbenzene | Acute EC50 1.8 mg/l Fresh water | Daphnia | 48 hours |
| | Chronic NOEC 1 mg/l Fresh water | Daphnia - Ceriodaphnia dubia | - |
| nonylphenol | Acute EC50 0.056 mg/l Fresh water | Algae - Desmodesmus subspicatus | 72 hours |
| | Chronic EC10 0.003 mg/l Fresh water | Algae - Desmodesmus subspicatus | 72 hours |
| | Chronic NOEC 1 µg/l Fresh water | Daphnia - <i>Daphnia magna</i> | 21 days |

Persistence and degradability

| Product/ingredient name | Test | Result | | Dose | Inoculum |
|--|-------------------|---------------------|------------|------|--------------------|
| Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin | OECD 301F | 5 % - 28 days | | - | - |
| ethylbenzene | - | 79 % - Readily - 10 | days | - | - |
| Product/ingredient name | Aquatic half-life | | Photolysis | 5 | Biodegradability |
| eaction product: bisphenol- A-(epichlorhydrin); epoxy resin | - | | - | | Not readily |
| xylene ethylbenzene | - - | | - | | Readily Readily |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|--|--------------------------|-------------------------------------|--------------------------|
| Peaction product: bisphenol- A-(epichlorhydrin); epoxy resin | 2.64 to 3.78 | 31 | Low |
| xylene 2-methylpropan-1-ol ethylbenzene nonylphenol | 3.12 1 3.6 3.28 | 7.4 to 18.5 - 79.43 154.88 | Low Low Low Low |

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Product name SIGMASHIELD 420 BASE GREY 5177

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

Section 14. Transport information

| | TDG | IMDG | ΙΑΤΑ |
|--------------------------------|---|---|--|
| UN number | UN1263 | UN1263 | UN1263 |
| UN proper shipping name | PAINT | PAINT | PAINT |
| Transport hazard class (es) | 3 | 3 | 3 |
| Packing group | III | III | III |
| Environmental hazards | Yes. | Yes. | Yes. The environmentally hazardous substance mark is not required. |
| Marine pollutant substances | (reaction product: bisphenol-A- (epichlorhydrin); epoxy resin, nonylphenol) | (reaction product: bisphenol-A- (epichlorhydrin); epoxy resin, nonylphenol) | Not applicable. |

 Additional information

 TDG
 : The marine pollutant mark is not required when transported by road or rail.

 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

Product name SIGMASHIELD 420 BASE GREY 5177

Section 14. Transport information

Proof of classification statement

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark).

Section 15. Regulatory information

National Inventory List

Canada inventory (DSL)

: 🕅 components are listed or exempted.

Section 16. Other information

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

Health: 3 * Flammability: 3 Physical hazards: 0

(*) - 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 Flammabili Date of issue/Date of revision | lity : 3 Instability : 0 4 September 2023 |
|--|---|
| Organization that prepared : the SDS | : 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 = Internediate 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.