## SAFETY DATA SHEET

The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2015.
Date of issue/Date of revision
16 December 2023
Version 13.02

## Section 1. Identification

Product name
: SIGMACOVER 456 BASE GREY 5177
Product code : 00153981
Other means of : Not available.
identification
Product type : Liquid.

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

| Product use | Professional applications, Used by spraying. |
| :---: | :---: |
| Use of the substance/ mixture | : Coating. |
| Uses advised against | : Not applicable. |
| 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.) <br> (514) 645-1320 (Canada) <br> 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
EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1B
CARCINOGENICITY - Category 1
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

GHS label elements

## Product name SIGMACOVER 456 BASE GREY 5177

## Section 2. Hazard identification

Hazard pictograms
Signal word
Hazard statements
Precautionary statements

## Prevention

Response

: Danger
: Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause cancer. May cause damage to organs through prolonged or repeated exposure. (hearing organs)
Prolonged or repeated contact may dry skin and cause irritation.

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 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. If eye irritation persists: Get medical advice or attention.
Storage
: Store locked up. Store in a well-ventilated place. Keep container tightly closed.
: Dispose of contents and container in accordance with all local, regional, national and international regulations.
: Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. 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: 24.9\% (oral), 27.4\% (dermal), 58.4\% (inhalation)

## Section 3. Composition/information on ingredients

| Substance/mixture | : Mixture |
| :--- | :--- |
| Product name | : SIGMACOVER 456 BASE GREY 5177 |
| Other means of <br> identification | : Not available. |

## CAS number/other identifiers

| Ingredient name | Synonyms | \% (w/w) | CAS number |
| :---: | :---: | :---: | :---: |
| Epoxy Resin |  | 10-30* | Not available. |
| barium sulfate | Sulfuric acid, barium salt (1:1); CI 77120; Barytes; Barium salt of sulfuric acid; Barite; Artificial barite; barium sulphate; C. I. Pigment White 21; barium sulfate, natural; blanc fixe; C.I. 77120 | 10-30* | 7727-43-7 |
| xylene | Benzene, dimethyl-; Xylol; Benzene, dimethyl-, mixed isomers; xylene, mixed isomers, pure; xylene, crude; Benzene, dimethyl-,; Xylene (mixed); xylene (total); Xylenes; Dimethylbenzene; XYLENES (Isomer Mixture) | 10-30* | 1330-20-7 |
| Nepheline syenite | potassium, sodium, oxido-oxooxoalumanyloxysilane | 10-30* | 37244-96-5 |
| Epoxy resin (MW $\leq 700$ ) | reaction product : bisphenol a(epichlorhydrin) ; epoxy resin ( number average molecular weight <= 700) | 3-7* | 25068-38-6 |
| 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 |
| carbon black | Lampblack; Acetylene black; C.I. 77266; C.I. Pigment Black 6; C.I. Pigment Black 7; Charcoal | 1-5* | 1333-86-4 |
| 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) | 0.5-1.5* | 78-83-1 |
| crystalline silica, respirable powder | alpha-quartz; Silica, crystalline (quartz); | 0.1-1* | 14808-60-7 |

## Section 3. Composition/information on ingredients

| (<10 microns) | Silica, Crystalline Quartz; SILICA, |  |  |
| :--- | :--- | :--- | :--- |
|  | CRYSTALLINE, QUARTZ; Silica- |  |  |
|  | Crystalline, Quartz; Silica - Crystalline |  |  |
|  | Quartz; Silica-Crystalline : Quartz; Silica, |  |  |
|  | crystalline - quartz |  |  |

*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

## Eye contact

Inhalation

Skin contact
Ingestion
: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

## Most important symptoms/effects, acute and delayed

## Potential acute health effects

| Eye contact | $:$ Causes serious eye irritation. |
| :--- | :--- |
| Inhalation | $:$ Harmful if inhaled. May cause respiratory irritation. |
| Skin contact | $:$ Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion | $:$ No known significant effects or critical hazards. |

Over-exposure signs/symptoms

| Eye contact | $:$Adverse symptoms may include the following: <br> pain or irritation <br> watering <br>  <br> redness |
| :--- | :--- |
| Inhalation | Adverse symptoms may include the following: <br> respiratory tract irritation <br> coughing |
| Skin contact | : Adverse symptoms may include the following: <br> irritation <br> redness <br> dryness |
|  | cracking |
| Ingestion | No specific data. |

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## Section 4. First-aid measures

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

Notes to physician
: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments
: No specific treatment.
Protection of first-aiders
: No action shall be taken involving any personal risk or without suitable training. 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 : Use dry chemical, $\mathrm{CO}_{2}$, water spray (fog) or foam. media
Unsuitable extinguishing : Do not use water jet. media

Specific hazards arising
from the chemical
Hazardous thermal decomposition products

Special protective actions for fire-fighters

Special protective equipment for fire-fighters
: 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.
: Decomposition products may include the following materials:
carbon oxides
sulfur oxides
halogenated compounds
metal oxide/oxides
: 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.
: 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 | $:$No action shall be taken involving any personal risk or without suitable training. <br> personnel <br>  <br> Evacuate surrounding areas. Keep unnecessary and unprotected personnel from <br> entering. Do not touch or walk through spilled material. Shut off all ignition sources. |
| :--- | :--- |
|  | No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. <br>  <br> Provide adequate ventilation. Wear appropriate respirator when ventilation is <br> inadequate. Put on appropriate personal protective equipment. |
| For emergency responders :If specialized clothing is required to deal with the spillage, take note of any <br> information in Section 8 on suitable and unsuitable materials. See also the <br> information in "For non-emergency personnel". |  |

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## Section 6. Accidental release measures

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

## Methods and materials for containment and cleaning up

Small spill

Large 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.
: 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 noncombustible, 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

Special precautions

Advice on general occupational hygiene
: 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.
: 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.
: 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.

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## Section 7. Handling and storage

Conditions for safe storage, : Store between the following temperatures: 0 to $35^{\circ} \mathrm{C}\left(32\right.$ to $\left.95^{\circ} \mathrm{F}\right)$. Store in
including any
incompatibilities
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 |
| :---: | :---: |
| Epoxy Resin barium sulfate | None. <br> CA British Columbia Provincial (Canada, 6/2022). <br> TWA: $5 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Inhalable CA Ontario Provincial (Canada, 6/2019). <br> TWA: $5 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Inhalable particulate matter. <br> CA Alberta Provincial (Canada, 6/2018). <br> OEL: $10 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. <br> CA Saskatchewan Provincial (Canada, 7/2013). <br> STEL: $20 \mathrm{mg} / \mathrm{m}^{3} 15$ minutes. <br> TWA: $10 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. <br> CA Quebec Provincial (Canada, 6/2022). <br> TWAEV: $5 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: inhalable dust |
| xylene | CA Alberta Provincial (Canada, 6/2018). [Dimethylbenzene (o,m \& p isomers)] <br> OEL: $651 \mathrm{mg} / \mathrm{m}^{3} 15$ minutes. <br> OEL: 150 ppm 15 minutes. <br> OEL: $434 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. <br> OEL: 100 ppm 8 hours. <br> CA British Columbia Provincial (Canada, 6/2022). [Xylene (o, m \& p isomers)] <br> STEL: 150 ppm 15 minutes. <br> TWA: 100 ppm 8 hours. <br> CA Quebec Provincial (Canada, 6/2022). <br> [Xylene (o-,m-,p- isomers)] <br> STEV: $651 \mathrm{mg} / \mathrm{m}^{3} 15$ minutes. <br> STEV: 150 ppm 15 minutes. <br> TWAEV: $434 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. <br> TWAEV: 100 ppm 8 hours. <br> CA Ontario Provincial (Canada, 6/2019). <br> [Xylene (o-, m-, p-isomers)] <br> STEL: 150 ppm 15 minutes. <br> TWA: 100 ppm 8 hours. <br> CA Saskatchewan Provincial (Canada, 7/2013). [Xylene (o, m-, p-isomers)] <br> STEL: 150 ppm 15 minutes. <br> TWA: 100 ppm 8 hours. |

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## Section 8. Exposure controls/personal protection

Nepheline syenite
Epoxy resin (MW $\leq 700$ )
ethylbenzene
carbon black

2-methylpropan-1-ol
crystalline silica, respirable powder (<10 microns)

CA Ontario Provincial (Canada, 6/2019).
TWA: $10 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Total dust None.
CA Alberta Provincial (Canada, 6/2018).
OEL: $543 \mathrm{mg} / \mathrm{m}^{3} 15$ minutes.
OEL: 125 ppm 15 minutes.
OEL: $434 \mathrm{mg} / \mathrm{m}^{3} 8$ hours.
OEL: 100 ppm 8 hours.
CA British Columbia Provincial (Canada, 6/2022).
TWA: 20 ppm 8 hours.
CA Ontario Provincial (Canada, 6/2019). 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.
CA British Columbia Provincial (Canada, 6/2022).
TWA: $3 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Inhalable CA Ontario Provincial (Canada, 6/2019).
TWA: $3 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Inhalable particulate matter.
CA Quebec Provincial (Canada, 6/2022).
TWAEV: $3 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: inhalable dust
CA Alberta Provincial (Canada, 6/2018).
OEL: $3.5 \mathrm{mg} / \mathrm{m}^{3} 8$ hours.
CA Saskatchewan Provincial (Canada, 7/2013).
STEL: $7 \mathrm{mg} / \mathrm{m}^{3} 15$ minutes.
TWA: $3.5 \mathrm{mg} / \mathrm{m}^{3} 8$ hours.
CA Alberta Provincial (Canada, 6/2018).
Skin sensitizer.
OEL: $152 \mathrm{mg} / \mathrm{m}^{3} 8$ hours.
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: $152 \mathrm{mg} / \mathrm{m}^{3} 8$ hours.
TWAEV: 50 ppm 8 hours.
CA Saskatchewan Provincial (Canada, 7/2013).
STEL: 60 ppm 15 minutes.
TWA: 50 ppm 8 hours.
CA British Columbia Provincial (Canada, 6/2022). [Silica, Crystalline - alpha quartz and Cristobalite Respirable]

## Section 8. Exposure controls/personal protection

TWA: $0.025 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form:
Respirable
CA Ontario Provincial (Canada, 6/2019).
[Silica, Crystaline (Quartz/Tripoli)]
TWA: $0.1 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Respirable
CA Quebec Provincial (Canada, $6 / 2022$ ).
[Silica Crystalline -Quartz]
TWAEV: $0.1 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form:
Respirable dust.
CA Alberta Provincial (Canada, $6 / 2018$ ).
OEL: $0.025 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form:
Respirable particulate
CA Saskatchewan Provincial (Canada,
7/2013).
TWA: $0.05 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form:
respirable fraction

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

Appropriate engineering controls

## Environmental exposure controls

: 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.
: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## Individual protection measures

| Hygiene measures | : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
| :---: | :---: |
| Eye/face protection | Chemical splash goggles. |
| 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 |

## Section 8. Exposure controls/personal protection

Body protection

Other skin protection

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

## Section 9. Physical and chemical properties

| Appearance |  |
| :---: | :---: |
| Physical state | Liquid. |
| Color | : Various |
| Odor | Aromatic. |
| Odor threshold | Not available. |
| pH | Not applicable. |
| Melting point | Not available. |
| Boiling point | $>37.78^{\circ} \mathrm{C}$ (>100 ${ }^{\circ} \mathrm{F}$ ) |
| Flash point | Closed cup: $27.5^{\circ} \mathrm{C}\left(81.5^{\circ} \mathrm{F}\right)$ |
| Auto-ignition temperature | : $430^{\circ} \mathrm{C}$ ( $806^{\circ} \mathrm{F}$ ) |
| Decomposition temperature | : Not available. |
| Flammability | Not available. |
| Lower and upper explosive (flammable) limits | : Not available. |
| Evaporation rate | : Not available. |
| Vapor pressure | : Not available. |
| Vapor density | : Not available. |
| Relative density | : 1.4 |
| Density ( lbs / gal ) | : 11.68 |
| Solubility(ies) | . Media Result |
|  | - cold water Not soluble |
| Partition coefficient: n octanol/water | : Not applicable. |
| Viscosity | : Kinematic (room temperature): $>400 \mathrm{~mm}^{2} / \mathrm{s}(>400 \mathrm{cSt}$ ) Kinematic ( $40^{\circ} \mathrm{C}\left(104^{\circ} \mathrm{F}\right)$ ): >21 mm ${ }^{2} / \mathrm{s}(>21 \mathrm{cSt})$ |
| Volatility | : 39\% (v/v), 23.643\% (w/w) |
| \% Solid. (w/w) | : 76.357 |

## Section 10. Stability and reactivity

Reactivity

Chemical stability : The product is stable.

Possibility of hazardous reactions

Conditions to avoid

Incompatible materials

Hazardous decomposition products
: No specific test data related to reactivity available for this product or its ingredients.
: Under normal conditions of storage and use, hazardous reactions will not occur.

## Section 11. Toxicological information

## Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
| :---: | :---: | :---: | :---: | :---: |
| barium sulfate | LD50 Dermal | Rat | $>2000 \mathrm{mg} / \mathrm{kg}$ | - |
|  | LD50 Oral | Rat | $>5000 \mathrm{mg} / \mathrm{kg}$ | - |
| xylene | LD50 Dermal | Rabbit | $1.7 \mathrm{~g} / \mathrm{kg}$ | - |
|  | LD50 Oral | Rat | $4.3 \mathrm{~g} / \mathrm{kg}$ | - |
| Nepheline syenite | LC50 Inhalation Dusts and mists | Rat | $>5.07 \mathrm{mg} / \mathrm{l}$ | 4 hours |
|  | LD50 Dermal | Rat | $>5000 \mathrm{mg} / \mathrm{kg}$ | - |
|  | LD50 Oral | Rat | $>5000 \mathrm{mg} / \mathrm{kg}$ | - |
| Epoxy resin (MW 5700 ) | LD50 Dermal | Rabbit | $>2 \mathrm{~g} / \mathrm{kg}$ | - |
|  | LD50 Oral | Rat | $>2 \mathrm{~g} / \mathrm{kg}$ | - |
| ethylbenzene | LC50 Inhalation Vapor | Rat | 17.8 mg/l | 4 hours |
|  | LD50 Dermal | Rabbit | $17.8 \mathrm{~g} / \mathrm{kg}$ |  |
|  | LD50 Oral | Rat | $3.5 \mathrm{~g} / \mathrm{kg}$ | - |
| carbon black | LD50 Oral | Rat | $>10 \mathrm{~g} / \mathrm{kg}$ |  |
| 2-methylpropan-1-ol | LC50 Inhalation Vapor | Rat | 24.6 mg/l | 4 hours |
|  | LD50 Dermal | Rabbit Rat | $2460 \mathrm{mg} / \mathrm{kg}$ |  |

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

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
| :--- | :--- | :--- | :--- | :--- | :--- |
| xylene | Skin - Moderate irritant | Rabbit | - | 24 hours 500 | - |
| Epoxy resin (MW 5 700) | Eyes - Mild irritant | Rabbit | - | mg | - |
|  | Skin - Mild irritant | Rabbit | - | - | - |

[^0]
## Product name SIGMACOVER 456 BASE GREY 5177

## Section 11. Toxicological information

Sensitization

| Product/ingredient name | Route of <br> exposure | Species | Result |
| :--- | :--- | :--- | :--- |
| Epoxy resin (MW $\leq 700)$ | skin | Mouse | Sensitizing |
| Skin  <br> Respiratory : There are no data available on the mixture itself. <br> Mutagenicity  <br> Conclusion/Summary <br> Carcinogenicity : There are no data available on the mixture itself. <br> Conclusion/Summary : There are no data available on the mixture itself. |  |  |  |

## Classification

| Product/ingredient name | OSHA | IARC | NTP |
| :--- | :--- | :--- | :--- |
| xylene | - | 3 | - |
| ethylbenzene | - | 2 B | - |
| carbon black |  |  |  |
| crystalline silica, respirable powder | - | 2 B | - |
| $(<10$ microns $)$ |  | 1 | Known to be a human carcinogen. |

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 <br> exposure | Target organs |
| :--- | :--- | :--- | :--- |
| 2-methylpropan-1-ol | Category 3 | - | Respiratory tract <br> irritation <br> Respiratory tract <br> irritation <br> Narcotic effects |

## Specific target organ toxicity (repeated exposure)

| Name | Category | Route of <br> exposure | Target organs |
| :--- | :--- | :--- | :--- |
| ethylbenzene <br> crystalline silica, respirable powder (<10 microns) | Category 2 <br> Category 1 | - <br> inhalation | hearing organs <br> - |

[^1]
## Aspiration hazard

## Product code 00153981

## Section 11. Toxicological information

| Name | Result |
| :--- | :--- |
| xylene | ASPIRATION HAZARD - Category 1 |
| ethylbenzene | ASPIRATION HAZARD - Category 1 |

Information on the likely routes of exposure

## Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Harmful if inhaled. May cause respiratory irritation.
Skin contact : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion : No known significant effects or critical hazards.

## Over-exposure signs/symptoms

| Eye contact | $:$Adverse symptoms may include the following: <br> pain or irritation <br>  <br> watering <br> redness |
| :--- | :--- |
|  | $:$ <br> Inhalation <br> Adverse symptoms may include the following: <br> respiratory tract irritation <br> coughing |
| Skin contact | : Adverse symptoms may include the following: <br> irritation <br> redness |
|  | dryness <br> cracking |
| Ingestion | No specific data. |

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

Conclusion/Summary : There are no data available on the mixture itself. 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. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

## Short term exposure

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

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

## Section 11. Toxicological information

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

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

## Potential chronic health effects

| General | $:$ May cause damage to organs through prolonged or repeated exposure. Prolonged <br> or repeated contact can defat the skin and lead to irritation, cracking and/or <br> dermatitis. Once sensitized, a severe allergic reaction may occur when <br> 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 | : No known significant effects or critical hazards. |

## Numerical measures of toxicity

## Acute toxicity estimates

| Product/ingredient name | Oral (mg/ <br> kg) | Dermal <br> (mg/kg) | Inhalation <br> (gases) <br> (ppm) | Inhalation <br> (vapors) <br> (mg/l) | Inhalation <br> (dusts <br> and mists) <br> (mg/l) |
| :--- | :--- | :--- | :--- | :--- | :--- |
| SIGMACOVER 456 BASE GREY 5177 <br> barium sulfate <br> xylene | 9102.9 | 3022.1 | N/A | 21.6 | 2.8 |
| Epoxy resin (MW $\leq 700)$ | N/A | 2500 | N/A | N/A | N/A |
| ethyylbenzene | 4300 | 1700 | N/A | 11 | 1.5 |
| 2-methylpropan-1-ol | 2500 | 2500 | N/A | N/A | N/A |

## Section 12. Ecological information

## Toxicity

| Product/ingredient name | Result | Species | Exposure |
| :--- | :--- | :--- | :--- |
| Epoxy resin (MW $\leq 700)$ | Acute LC50 $1.8 \mathrm{mg} / \mathrm{l}$ | Daphnia | 48 hours |
|  | Chronic NOEC $0.3 \mathrm{mg} / \mathrm{l}$ | 21 days |  |
| ethylbenzene | Acute EC50 $1.8 \mathrm{mg} / \mathrm{IFresh}$ water | Daphnia | Daphnia |
| 2-methylpropan-1-ol | Chronic NOEC $1 \mathrm{mg} / \mathrm{I}$ Fresh water | Daphnia - Ceriodaphnia dubia | - |
| Acute EC50 $1100 \mathrm{mg} / \mathrm{I}$ | Daphnia | 48 hours |  |

## Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
| :--- | :--- | :--- | :--- | :--- |
| Epoxy resin (MW $\leq 700)$ <br> ethylbenzene | OECD 301F | $5 \%-28$ days <br> $79 \%-$ Readily - 10 days | - | - |
| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |  |
| Xylene <br> Epoxy resin $(M W \leq 700)$ <br> ethylbenzene | - | - | Readily <br> Not readily <br> Readily |  |

## Bioaccumulative potential

## Section 12. Ecological information

| Product/ingredient name | LogPow | BCF | Potential |
| :--- | :--- | :--- | :--- |
| xylene | 3.12 | 7.4 to 18.5 | Low |
| Epoxy resin (MW $\leq 700)$ | 3 | 31 | Low |
| ethylbenzene | 3.6 | 79.43 | Low |
| 2-methylpropan-1-ol | 1 | - | Low |

## Mobility in soil

Soil/water partition
: Not available.
coefficient (Koc)

## 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 nonrecyclable 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 | IATA |
| :--- | :---: | :---: | :---: |
| UN number | UN1263 | UN1263 | UN1263 |
| UN proper shipping <br> name | PAINT | PAINT | PAINT |
| Transport hazard class <br> (es) | 3 | 3 | 3 |
| Packing group | III | III | III |
| Environmental hazards <br> Marine pollutant <br> substances | No. | No. | No. |

## Additional information

| TDG | $:$ None identified. |
| :--- | :--- |
| IMDG | $:$ This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5. |

## Section 14. Transport information

IATA : None identified.

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

Transport in bulk according : Not applicable. to IMO instruments

Proof of classification : Product classified as per the following sections of the Transportation of Dangerous statement Goods Regulations: 2.18-2.19 (Class 3).

## Section 15. Regulatory information

## National Inventory List

Canada inventory (DSL) : All 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 Flammability : 3 Instability : 0
Date of issue/Date of 16 December 2023
revision
Organization that prepared : EHS
the SDS
Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973
as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations
$\nabla$ Indicates information that has changed from previously issued version.

## Disclaimer

## Product name SIGMACOVER 456 BASE GREY 5177

## Section 16. Other information

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.


[^0]:    Conclusion/Summary
    Skin : There are no data available on the mixture itself.
    Eyes : There are no data available on the mixture itself.
    Respiratory : There are no data available on the mixture itself.

[^1]:    Target organs : Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.

