# **SAFETY DATA SHEET**



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

Date of issue/Date of revision 13 January 2025 Version 1.02

Section 1. Identification		
Product name	: SIGMASHIELD 420 BASE RED BROWN	
Product code	: 000001200007	
Other means of identification	: 00192368	
Product type	: Liquid.	
Relevant identified uses of	the substance or mixture and uses advised against	
Product use	: Professional applications, Used by spraying, Application by non spray methods	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Not applicable.	
Supplier	<ul> <li>PPG Architectural Coatings Canada, Inc. 1550, rue Ampère, bureau 500 Boucherville (Québec) J4B 7L4 Canada +1 450-655-3121</li> </ul>	
	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 1B
	CARCINOGENICITY - Category 1
	TOXIC TO REPRODUCTION - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	Health Hazards Not Otherwise Classified - Category 1
CHS label elemente	

#### **GHS label elements**

Product name SIGMASHIELD 420 BASE RED BROWN

## Section 2. Hazard identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. (hearing organs) Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.</li> </ul>
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. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: F 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 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.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	<ul> <li>Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Do not taste or swallow. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.</li> <li>Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 31.6% (oral), 62.2% (dermal), 81.1% (inhalation)</li> </ul>

Product name SIGMASHIELD 420 BASE RED BROWN

## Section 3. Composition/information on ingredients

Substance/mixture Product name	: Mixture : SIGMASHIELD 420 BASE RED BRC	OWN
Other means of identification	: 00192368	

#### **CAS number/other identifiers**

Prystalline silica, respirable powder (>10 microns)alpha-quartz; Silica, crystalline (quartz); Silica, Crystalline Quartz; Silica- Crystalline, Quartz; Silica- Crystalline, Quartz; Silica- Crystalline - quartzbis-[4-(2,3-epoxipropoxi)phenyl] propane2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bisoxirane; Oxirane, 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bis-; Bisphenol A diglycidyl ether; Bisphenol A, diglycidyl ether; Bis-[4-(2,3-epoxypropoxy) phenyl]propane; 2,2-bis[4- (2,3-epoxypropoxy)phenyl]propane; Propane, 2,2-bis(4-hydroxyphenyl) propane bis (2,3-epoxypropyl) ether; Araldite; DIPHENYLOL PROPANE DIGLYCIDYL ETHER	10 - 30* 10 - 30*	14808-60-7 1675-54-3
propane (4,1-phenyleneoxymethylene)]bisoxirane; Oxirane, 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bis-; Bisphenol A diglycidyl ether; Bisphenol A, diglycidyl ether; Bis-[4-(2,3-epoxypropoxy) phenyl]propane; 2,2-bis[4- (2,3-epoxypropoxy)phenyl]propane; Propane, 2,2-bis(p-(2,3-epoxypropoxy) phenyl)-; diglycidyl ether of bisphenol-A; 2,2-bis(4-hydroxyphenyl) propane bis (2,3-epoxypropyl) ether; Araldite; DIPHENYLOL PROPANE DIGLYCIDYL	10 - 30*	1675-54-3
Talc , not containing asbestiform fibres Talc; magnesium silicate monohydrate (talc) not containing asbestiform fibres	5 - 10*	14807-96-6
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)	5 - 10*	1330-20-7
diiron trioxide Iron oxide (Fe2O3); Iron oxide; C.I. Pigment Red 101; Ferric oxide; Iron oxide, anhydrous; Iron oxide, red; Iron sesquioxide; Iron trioxide; iron oxide pigment; Iron oxide dust and fume (as Fe); Rouge	3 - 7*	1309-37-1
crystalline 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	1 - 5*	14808-60-7
4-nonylphenol, branched Phenol, 4-nonyl-, branched; Branched 4-nonylphenol (mixed isomers);	1 - 5*	84852-15-3

#### Product name SIGMASHIELD 420 BASE RED BROWN

### Section 3. Composition/information on ingredients

	Nonylphenol, 4-branched; N- NONYLPHENOL; Nonylphenol; C9- Branched alkyl phenol; Branched p- nonylphenol; 4-Nonylphenol; branched; Monoalkyl(C3-9)phenol; C9 branched alkyl phenol		
2-methylpropan-1-ol	iso-butanol; 1-Propanol, 2-methyl-; Isobutyl alcohol; Isobutanol; 2-Methyl- 1-propanol; Isopropylcarbinol; IBA; i-Butyl alcohol; isobutanol; iso-butanol; Isobutyl alcohol (I,T); 1-Propanol, 2-methyl- (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	0.5 - 1.5*	100-41-4

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.

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	<ul> <li>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.</li> </ul>
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	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled.

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## Section 4. First-aid measures

Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Corrosive to the digestive tract. Causes burns.
Over-exposure signs/symp	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
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

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , 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 metal oxide/oxides
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thoroughly with water before removing it, or wear gloves.

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## Section 5. Fire-fighting measures

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, protec	<u>tiv</u>	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		

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.

## Section 7. Handling and storage

Precautions for safe handling

### Product name SIGMASHIELD 420 BASE RED BROWN

## Section 7. Handling and storage

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	Wash hands thoroughly after handling.
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)	<ul> <li>CA Alberta Provincial (Canada, 3/2023)</li> <li>OEL 8 hours: 0.025 mg/m<sup>3</sup>. Form: Respirable particulate.</li> <li>CA British Columbia Provincial (Canada, 8/2023) [Silica, Crystalline - alpha quartz and Cristobalite]</li> <li>TWA 8 hours: 0.025 mg/m<sup>3</sup>. Form: Respirable.</li> <li>CA Ontario Provincial (Canada, 6/2019) [Silica, Crystalline (Quartz/Tripoli)]</li> <li>TWA 8 hours: 0.1 mg/m<sup>3</sup>. Form: Respirable particulate matter</li> <li>CA Quebec Provincial (Canada, 7/2023)</li> </ul>

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## Section 8. Exposure controls/personal protection

	[Cilian Crucatelline Overt-1
	[Silica Crystalline -Quartz]
	TWAEV 8 hours: 0.1 mg/m <sup>3</sup> . Form:
	Respirable dust.
	CA Saskatchewan Provincial (Canada,
	7/2013)
	TWA 8 hours: 0.05 mg/m <sup>3</sup> . Form:
	respirable fraction.
bis-[4-(2,3-epoxipropoxi)phenyl]propane	None.
Talc , not containing asbestiform fibres	CA Alberta Provincial (Canada, 3/2023)
	OEL 8 hours: 2 mg/m <sup>3</sup> . Form: Respirable
	particulate.
	CA British Columbia Provincial (Canada,
	8/2023)
	TWA 8 hours: 2 mg/m³. Form: Respirable.
	CA Ontario Provincial (Canada, 6/2019)
	TWA 8 hours: 2 mg/m <sup>3</sup> . Form: Respirable
	particulate matter.
	CA Quebec Provincial (Canada, 7/2023)
	TWAEV 8 hours: 2 mg/m <sup>3</sup> . Form:
	Respirable dust.
	CA Saskatchewan Provincial (Canada,
	7/2013)
	TWA 8 hours: 2 mg/m <sup>3</sup> . Form: respirable
	fraction.
xylene	CA Alberta Provincial (Canada, 3/2023)
	[Dimethylbenzene]
	OEL 8 hours: 100 ppm.
	OEL 15 minutes: 651 mg/m <sup>3</sup> .
	OEL 15 minutes: 150 ppm.
	OEL 8 hours: 434 mg/m <sup>3</sup> .
	CA British Columbia Provincial (Canada,
	8/2023) [Xylene (o, m & p isomers)]
	TWA 8 hours: 100 ppm.
	STEL 15 minutes: 150 ppm.
	CA Ontario Provincial (Canada, 6/2019)
	[Xylene (o-, m-, p-isomers)]
	STEL 15 minutes: 150 ppm.
	TWA 8 hours: 100 ppm.
	CA Quebec Provincial (Canada, 7/2023)
	[Xylene]
	TWAEV 8 hours: 100 ppm.
	TWAEV 8 hours: 434 mg/m <sup>3</sup> .
	STEV 15 minutes: 150 ppm.
	STEV 15 minutes: 651 mg/m <sup>3</sup> .
	CA Saskatchewan Provincial (Canada,
	7/2013) [Xylene]
	STEL 15 minutes: 150 ppm.
	TWA 8 hours: 100 ppm.
diiron trioxide	CA Alberta Provincial (Canada, 3/2023)
	OEL 8 hours: 5 mg/m <sup>3</sup> . Form: Respirable.
	CA British Columbia Provincial (Canada,
	8/2023)
	TWA 8 hours: 10 mg/m <sup>3</sup> . Form: Total dust.

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Section 8. Exposure controls/personal protection				
	<ul> <li>CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 5 mg/m<sup>3</sup>. Form: Respirable particulate matter</li> <li>CA Quebec Provincial (Canada, 7/2023) TWAEV 8 hours: 5 mg/m<sup>3</sup> (as Fe). Form: dust and fume.</li> <li>CA Saskatchewan Provincial (Canada, 7/2013) STEL 15 minutes: 10 mg/m<sup>3</sup> (measured as Fe). Form: dust and fume.</li> <li>TWA 8 hours: 5 mg/m<sup>3</sup> (measured as Fe).</li> <li>Form: dust and fume.</li> </ul>			
crystalline silica, respirable powder (<10 microns)	<ul> <li>CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 0.025 mg/m<sup>3</sup>. Form: Respirable particulate.</li> <li>CA British Columbia Provincial (Canada, 8/2023) [Silica, Crystalline - alpha quartz and Cristobalite] TWA 8 hours: 0.025 mg/m<sup>3</sup>. Form: Respirable.</li> <li>CA Ontario Provincial (Canada, 6/2019)</li> <li>[Silica, Crystalline (Quartz/Tripoli)] TWA 8 hours: 0.1 mg/m<sup>3</sup>. Form: Respirable particulate matter</li> <li>CA Quebec Provincial (Canada, 7/2023)</li> <li>[Silica Crystalline -Quartz] TWAEV 8 hours: 0.1 mg/m<sup>3</sup>. Form: Respirable dust</li> <li>CA Saskatchewan Provincial (Canada, 7/2013)</li> <li>TWA 8 hours: 0.05 mg/m<sup>3</sup>. Form: respirable fraction.</li> </ul>			
4-nonylphenol, branched 2-methylpropan-1-ol	None. <b>CA Alberta Provincial (Canada, 3/2023)</b> OEL 8 hours: 50 ppm. OEL 8 hours: 152 mg/m <sup>3</sup> . <b>CA British Columbia Provincial (Canada, 8/2023)</b> TWA 8 hours: 50 ppm. <b>CA Ontario Provincial (Canada, 6/2019)</b> TWA 8 hours: 50 ppm. <b>CA Quebec Provincial (Canada, 7/2023)</b> TWAEV 8 hours: 50 ppm. TWAEV 8 hours: 152 mg/m <sup>3</sup> . <b>CA Saskatchewan Provincial (Canada, 7/2013)</b> STEL 15 minutes: 60 ppm. TWA 8 hours: 50 ppm.			
ethylbenzene	CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 100 ppm. OEL 8 hours: 434 mg/m <sup>3</sup> . OEL 15 minutes: 543 mg/m <sup>3</sup> . OEL 15 minutes: 125 ppm. CA British Columbia Provincial (Canada, 8/2023) Canada Page: 9/18			

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## Section 8. Exposure controls/personal protection

TWA 8 hours: 20 ppm.
CA Ontario Provincial (Canada, 6/2019)
TWA 8 hours: 20 ppm.
CA Quebec Provincial (Canada, 7/2023)
TWAEV 8 hours: 20 ppm.
CA Saskatchewan Provincial (Canada,
7/2013)
STEL 15 minutes: 125 ppm.
TWA 8 hours: 100 ppm.

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	:	Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measured	res	
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	1	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.
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## Section 8. Exposure controls/personal protection

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

## Section 9. Physical and chemical properties

<u>Appearance</u>			
Physical state	: Liq	luid.	
Color	: Bro	ownish-red.	
Odor	: Arc	omatic.	
Odor threshold	: No	ot available.	
рН	: No	ot applicable.	
Melting point	: No	ot available.	
Boiling point	: >3	7.78°C (>100°F)	
Flash point	: 🕅	osed cup: 33°C (91.4°F)	
Auto-ignition temperature	: No	ot available.	
Decomposition temperature	: No	ot available.	
Flammability	: No	ot available.	
Lower and upper explosive (flammable) limits	: No	t available.	
Evaporation rate	: No	ot available.	
Vapor pressure	: No	ot available.	
Vapor density	: No	ot available.	
Relative density	: 1.7	75	
Density(lbs / gal)	: 14.	.6	
Solubility(ies)	. Me	edia	Result
Colubility(ICS)	со	ld water	Not soluble
Partition coefficient: n- octanol/water	: No	t applicable.	
Viscosity	Kir	namic (room temperature nematic (room temperatur nematic (40°C (104°F)): >	re): Not available.
% Solid. (w/w)		.111	· · · · · · · · · · · · · · · · · · ·

## Section 10. Stability and reactivity

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Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical stability	: The product is stable.
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

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## 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 metal oxide/oxides

## Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
s-[4-(2,3-epoxipropoxi)	LD50 Dermal	Rabbit	23000 mg/kg	-
phenyl]propane				
	LD50 Oral	Rat	15000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 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	-

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

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Edema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
4-nonylphenol, branched	Skin - Erythema/Eschar	Rabbit	4	-	-

Conclusion/Summary

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

#### **Sensitization**

Respiratory

Skin

Eyes

•	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse	Sensitizing

#### Product name SIGMASHIELD 420 BASE RED BROWN

### Section 11. Toxicological information

Skin	: There are n	o data availa	able on the mixture itself.	
Respiratory	: There are n	o data availa	able on the mixture itself.	
Mutagenicity				
<b>Conclusion/Summary</b>	: There are n	o data availa	able on the mixture itself.	
<b>Carcinogenicity</b>				
<b>Conclusion/Summary</b>	: There are n	o data availa	able on the mixture itself.	
<b>Classification</b>				
Product/ingredient name	OSHA	IARC	NTP	

Product/ingredient name	OSHA	IARC	NTP
<pre>prystalline silica, respirable powder (&gt;10 microns)</pre>	+	1	Known to be a human carcinogen.
bis-[4-(2,3-epoxipropoxi)phenyl]	-	3	-
propane			
xylene	-	3	-
diiron trioxide	-	3	-
crystalline silica, respirable powder (<10 microns)	+	1	Known to be a human carcinogen.
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
Talc , not containing asbestiform fibres	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		Route of exposure	Target organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-
ethylbenzene	Category 2	-	hearing organs

Target organs

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

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

#### Product name SIGMASHIELD 420 BASE RED BROWN

### 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

Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled.
Skin contact Ingestion	<ul> <li>Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.</li> <li>Corrosive to the digestive tract. Causes burns.</li> </ul>

#### **Over-exposure signs/symptoms**

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

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

<ul> <li>Conclusion/Summary</li> <li>There are no data available on the mixture itself. This product corsilica which can cause lung cancer or silicosis. The risk of cancerduration and level of exposure to dust from sanding surfaces or mapplications. Exposure to component solvent vapor concentrations stated occupational exposure limit may result in adverse health effective mucous membrane and respiratory system irritation and adverse ekidneys, liver and central nervous system. Symptoms and signs in dizziness, fatigue, muscular weakness, drowsiness and, in extrem consciousness. Solvents may cause some of the above effects by through the skin. There is some evidence that repeated exposure vapors in combination with constant loud noise can cause greater expected from exposure to noise alone. If splashed in the eyes, th cause irritation and reversible damage. Ingestion may cause naus vomiting. This takes into account, where known, delayed and immovie the set of a splashed in the eyes of the above effects by the set of the damage. Ingestion may cause naus vomiting. This takes into account, where known, delayed and immovie the set of the above effects of the damage. Ingestion may cause naus vomiting. This takes into account, where known, delayed and immovie the set of the damage and immovies the damage and immovies the set of the damage and immovies the set of the damage and immovies the damage and immovies the set of the damage and immovies the damage and the set of the da</li></ul>	mist from spray ons in excess of the effects such as e effects on the include headache, me cases, loss of by absorption re to organic solvent er hearing loss than the liquid may usea, diarrhea and
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#### Product name SIGMASHIELD 420 BASE RED BROWN

### Section 11. Toxicological information

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 Long term exposure	: There are no data available on the mixture itself.
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	ects
General	: Causes 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 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 RED BROWN	16563.2	6269.4	N/A	24.1	3.1
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
diiron trioxide	10000	N/A	N/A	N/A	N/A
4-nonylphenol, branched	1300	2140	N/A	N/A	N/A
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5

## Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
s-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
4-nonylphenol, branched	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
	Acute LC50 0.221 mg/l	Fish	96 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	-

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Porejetonco and dogradability

#### Product name SIGMASHIELD 420 BASE RED BROWN

### Section 12. Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10 da	ys -	-
Product/ingredient name	Aquatic half-lif	fe Pl	hotolysis	Biodegradability
bis-[4-(2,3-epoxipropoxi) phenyl]propane	-	-		Not readily
xylene ethylbenzene	-	-		Readily Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> ylene	3.12	7.4 to 18.5	Low
4-nonylphenol, branched	5.4	251.19	Low
2-methylpropan-1-ol	1	-	Low
ethylbenzene	3.6	79.43	Low

#### Mobility in soil

Soil/water partition coefficient (Koc)

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: Not available.
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### 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 Product name SIGMASHIELD 420 BASE RED BROWN

### 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	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.

#### **Additional information**

<ul> <li>The marine pollutant mark is not required when transported by road or rail.</li> <li>The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.</li> </ul>
: The environmentally hazardous substance mark may appear if required by other transportation regulations.
tions for user : <b>Transport within user's premises:</b> 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.
Ik according : Not applicable. ents
ication : 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).

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National Inventory List
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Canada inventory (DSL) : At least one component is not listed.

## Section 16. Other information

Please refer to Section 2 of this document for GHS hazard classifications. The customer is responsible for determining the PPE code for this material. Date of issue/Date of 13 January 2025 revision

Organization that prepared : EHS the SDS

Product name SIGMASHIELD 420 BASE RED BROWN

### Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973
	as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	N/A = Not available
	SGG = Segregation Group
	UN = United Nations
Indicates information	that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.