# **SAFETY DATA SHEET**



Date of issue/Date of revision 15 March 2025 Version 3

Section 1. Identification		
Product name	: SIGMASHIELD 460 BASE BLACK	
Product code	: 00445406	
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.	
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272	
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)	
<b>Technical Phone Number</b>	: 888-977-4762	

# Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 33.1% (oral), 59.1% (dermal), 85.2% (inhalation)</li> </ul>
GHS label elements	

#### **GHS label elements**

Product name SIGMASHIELD 460 BASE BLACK

# Section 2. Hazards 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 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</li> </ul>
Precautionary statements	
Prevention	<ul> <li>Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.</li> </ul>
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. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Sanding and grinding dusts may be harmful if inhaled. 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.
lazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

### Section 3. Composition/information on ingredients

#### Substance/mixture Product name

: Mixture

: SIGMASHIELD 460 BASE BLACK

Ingredient name	%	CAS number
vystalline silica, respirable powder (>10 microns)	≥20 - ≤50	14808-60-7
reaction product: bisphenol-A-(epichlorohydrin); epoxy resin	≥20 - ≤29	25068-38-6
Talc , not containing asbestiform fibres	≥10 - ≤20	14807-96-6
xylene	≥5.0 - ≤10	1330-20-7
glass, oxide, chemicals	≥1.0 - ≤5.0	65997-17-3
ethylbenzene	≥0.10 - ≤2.6	100-41-4
nonylphenol	≤2.0	25154-52-3
2-methylpropan-1-ol	≤1.8	78-83-1
carbon black	≥1.0 - ≤5.0	1333-86-4

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### Description of necessary first aid measures

Eye contact	:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Most important symptoms/ef	fec	sts, acute and delayed
Potential acute health effect	S	
Eye contact	:	Causes serious eye damage.
Inhalation	:	Harmful if inhaled. May cause respiratory irritation.
Skin contact	:	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/symptoms

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## Section 4. First aid measures

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 medical 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	<ul> <li>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.</li> </ul>	

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. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

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# Section 5. Fire-fighting measures

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, protective equipment and emergency procedures For non-emergency : No action shall be taken involving any personal risk or without suitable training

personnel	Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 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
ørystalline silica, respirable powder (>10 microns)	ACGIH TLV (United States, 1/2024) [Silica, crystalline] TWA 8 hours: 0.025 mg/m <sup>3</sup> . Form: Respirable fraction. OSHA PEL (United States, 5/2018) [Silica, crystalline] TWA 8 hours: 50 μg/m <sup>3</sup> . Form: Respirable dust. OSHA PEL Z3 (United States, 6/2016) TWA 8 hours: 250 / (%SiO <sub>2</sub> +5) mppcf. Form: Respirable.
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# Section 8. Exposure controls/personal protection

	-
	TWA 8 hours: 10 / (%SiO <sub>2</sub> +2) mg/m <sup>3</sup> . Form:
	Respirable.
reaction product: bisphenol-A-(epichlorohydrin); epoxy resin	None.
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 1/2024)
	TWA 8 hours: 2 mg/m <sup>3</sup> . Form: Respirable
	fraction.
	OSHA PEL Z3 (United States)
	TWA: 2 mg/m <sup>3</sup> .
xylene	ACGIH TLV (United States, 1/2024) [p-
	xylene and mixtures containing p-xylene]
	Ototoxicant.
	TWA 8 hours: 20 ppm.
	OSHA PEL (United States, 5/2018) [Xylenes]
	TWA 8 hours: 100 ppm.
	TWA 8 hours: 435 mg/m <sup>3</sup> .
glass, oxide, chemicals	ACGIH TLV (United States)
	TWA: 10 mg/m <sup>3</sup> . Form: Total dust.
	TWA: 3 mg/m <sup>3</sup> . Form: Respirable.
	TWA: 1. Form: Continuous filament glass
	fibers.
	TWA: 5 mg/m³ (Inhalable). Form:
	Continuous filament glass fibers.
	OSHA PEL (United States)
	TWA: 15 mg/m <sup>3</sup> . Form: Total dust.
	TWA: 5 mg/m <sup>3</sup> . Form: Respirable.
	TWA: 15 mg/m³.
ethylbenzene	ACGIH TLV (United States, 1/2024)
	Ototoxicant.
	TWA 8 hours: 20 ppm.
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 100 ppm.
	TWA 8 hours: 435 mg/m <sup>3</sup> .
nonylphenol	None.
2-methylpropan-1-ol	ACGIH TLV (United States, 1/2024)
	TWA 8 hours: 50 ppm.
	TWA 8 hours: 152 mg/m <sup>3</sup> .
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 100 ppm.
	TWA 8 hours: 300 mg/m <sup>3</sup> .
carbon black	ACGIH TLV (United States, 1/2024)
	TWA 8 hours: 3 mg/m <sup>3</sup> . Form: Inhalable
	fraction.
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 3.5 mg/m <sup>3</sup> .
Key to abbreviations	
A = Acceptable Maximum Peak	S = Potential skin absorption
ACGIH = American Conference of Governmental Industrial Hygienists. C = Ceiling Limit	SR = Respiratory sensitization SS = Skin sensitization
F = Fume	STEL = Short term Exposure limit values
IPEL = Internal Permissible Exposure Limit	TD = Total dust
OSHA = Occupational Safety and Health Administration.	TLV = Threshold Limit Value

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= Time Weighted Average

TWA

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# Section 8. Exposure controls/personal protection

R	= Respirat
Ζ	= OSHA 2

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

#### Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	-	Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	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 measur	es	
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	1	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.
Respiratory protection	:	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The respiratory protection shall be in accordance to 29 CFR 1910.134.

## Section 9. Physical and chemical properties

#### **Appearance**

Result
Not soluble
re): Not available. ure): Not available. >21 mm²/s (>21 cSt)

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

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### Section 10. Stability and reactivity

Hazardous decomposition<br/>products: Depending on conditions, decomposition products may include the following materials:<br/>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-A-	LD50 Dermal	Rabbit	>2 g/kg	-	
(epichlorohydrin); epoxy resin					
	LD50 Oral	Rat	>2 g/kg	-	
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-	
-	LD50 Oral	Rat	4.3 g/kg	-	
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours	
-	LD50 Dermal	Rabbit	17.8 g/kg	-	
	LD50 Oral	Rat	3.5 g/kg	-	
nonylphenol	LD50 Dermal	Rabbit	2.14 g/kg	-	
	LD50 Oral	Rat	580 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	-	
carbon black	LD50 Oral	Rat	>10 g/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- (epichlorohydrin); epoxy resin	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				UI	
	Skin - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	

#### **Conclusion/Summary**

Skin Eyes : There are no data available on the mixture itself.

: There are no data available on the mixture itself.

**Respiratory** : There are no data available on the mixture itself.

#### **Sensitization**

	Route of exposure	Species	Result
eaction product: bisphenol-A- (epichlorohydrin); epoxy resin	skin	Mouse	Sensitizing

#### **Conclusion/Summary**

Skin

: There are no data available on the mixture itself.

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### Section 11. Toxicological information

Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Classification</b>	

Product/ingredient name	OSHA	IARC	NTP
Frystalline silica, respirable powder (>10 microns) xylene glass, oxide, chemicals ethylbenzene	+	1 3 3 2B	Known to be a human carcinogen. - -
carbon black	-	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
Palc , 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
<b>e</b> thylbenzene	Category 2	-	hearing organs

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.

#### Aspiration hazard

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# Section 11. Toxicological information

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

#### Information on the likely routes of exposure

Potential acute health eff	ects
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact Ingestion	<ul> <li>Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.</li> <li>No known significant effects or critical hazards.</li> </ul>
Over-exposure signs/syn	nptoms
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. 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

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# Section 11. Toxicological information

	amage. Ingestion may cause nausea, diarrhea and vomiting. This takes into accou here known, delayed and immediate effects and also chronic effects of components om short-term and long-term exposure by oral, inhalation and dermal routes of xposure and eye contact.	
Short term exposure		
Potential immediate effects	here are no data available on the mixture itself.	
Potential delayed effects	here are no data available on the mixture itself.	
Long term exposure		
Potential immediate effects	here are no data available on the mixture itself.	
Potential delayed effects	here are no data available on the mixture itself.	
Potential chronic health eff		
General	lay cause damage to organs through prolonged or repeated exposure. Prolonged o epeated 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 ery low levels.	
Carcinogenicity	lay cause cancer. Risk of cancer depends on duration and level of exposure.	
Mutagenicity	lo known significant effects or critical hazards.	
Reproductive toxicity	suspected of damaging fertility or the unborn child.	
Numerical measures 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/ I)
GMASHIELD 460 BASE BLACK reaction product: bisphenol-A-(epichlorohydrin); epoxy resin	4197.4 2500	2431.9 2500	N/A N/A	15.3 N/A	2.0 N/A
xylene ethylbenzene nonylphenol	4300 3500 580	1700 17800 2140	N/A N/A N/A	11 17.8 N/A	1.5 1.5 N/A
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A

# Section 12. Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
Peaction product: bisphenol-A- (epichlorohydrin); epoxy resin	Chronic NOEC 0.3 mg/l	Daphnia	21 days
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
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### Section 12. Ecological information

	Chronic NOEC 1 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours

#### Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
eaction product: bisphenol-A- (epichlorohydrin); epoxy resin	OECD 301F	5 % - 28 da	ys	-		-
ethylbenzene	-	79 % - Rea	dily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
eaction product: bisphenol-A- (epichlorohydrin); epoxy resin	-		-		Not read	dily
xylene ethylbenzene	-		-		Readily Readily	

#### **Bioaccumulative potential**

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

#### Mobility in soil

Soil/Water partition coefficient

: Not available.

### Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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

> **United States** Page: 14/17

Version 3

#### Product name SIGMASHIELD 460 BASE BLACK

### 14. Transport information

	1		1
	DOT	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	111	Ш	111
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	reaction product: bisphenol-A- (epichlorohydrin); epoxy resin)	Not applicable.
Product RQ (lbs)	<b>1</b> 041	Not applicable.	Not applicable.
RQ substances	(xylene)	Not applicable.	Not applicable.

#### **Additional information**

DOT	<ul> <li>Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.</li> </ul>
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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

Transport in bulk according : Not applicable. to IMO instruments

## Section 15. Regulatory information

#### **United States**

United States inventory (TSCA 8b) : All components are active or exempted.

TSCA 12(b) - Chem	ical export notification:	
nonylphenol		One time notification [Section 5]
TSCA 5(a)2 - Propo	sed significant new use rules:	
ponylphenol		Listed
p-nonylphenol		Listed
SARA 302/304		
SARA 304 RQ	: Not applicable.	

### **Composition/information on ingredients**

No products were found.

Product name SIGMASHIELD 460 BASE BLACK

### Section 15. Regulatory information

#### SARA 311/312 Classification

 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 HNOC - Defatting irritant

#### **Composition/information on ingredients**

Name	%	Classification
vystalline silica, respirable powder (>10 microns)	≥20 - ≤50	CARCINOGENICITY - Category 1A
reaction product: bisphenol-A-	≥20 - ≤29	SKIN IRRITATION - Category 2
(epichlorohydrin); epoxy resin		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1
Talc , not containing asbestiform	≥10 - ≤20	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
fibres		(Respiratory tract irritation) - Category 3
xylene	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		ASPIRATION HAZARD - Category 1
ethylbenzene	≥0.10 - ≤2.6	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
nonylphenol	≤2.0	ACUTE TOXICITY (oral) - Category 4
		SKIN CORROSION - Category 1
		SERIOUS EYE DAMAGE - Category 1
		TOXIC TO REPRODUCTION - Category 2
2-methylpropan-1-ol	≤1.8	FLAMMABLE LIQUIDS - Category 3
		SKIN IRRITATION - Category 2
		SERIOUS EYE DAMAGE - Category 1
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		HNOC - Defatting irritant
carbon black	≥1.0 - ≤5.0	COMBUSTIBLE DUSTS
		CARCINOGENICITY - Category 2

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**Supplier notification** 

Product name SIGMASHIELD 460 BASE BLACK

### Section 15. Regulatory information

#### <u>SARA 313</u>

Chemical name	CAS number	<b>Concentration</b>
: xylene	1330-20-7	5 - 10
ethylbenzene	100-41-4	1 - 5
nonylphenol	25154-52-3	1 - 5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

#### California Prop. 65

**WARNING**: Cancer - www.P65Warnings.ca.gov.

### Section 16. Other information

Please refer to Section 2 of this document for GHS hazard classifications. The customer is responsible for determining the PPE code for this material.

Date of previous issue Organization that prepared the SDS		<b>3/13/2023</b> EHS
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

#### Indicates information that has changed from previously issued version.

#### **Disclaimer**

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