# **SAFETY DATA SHEET**



Date of issue/Date of revision 7 July 2024 Version 5

Section 1. Identification		
Product name	: SIGMA SAILADVANCE GX BROWN	
Product code	: 00445164	
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	: Antifouling products; Coating.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272	
<u>Emergency telephone</u> <u>number</u>	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)	
Technical Phone Number	: 888-977-4762	

# Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 5% (oral), 24.5% (dermal), 33.3% (inhalation)
GHS label elements	
Hazard pictograms	

**United States** 

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Product name SIGMA SAILADVANCE GX BROWN

# Section 2. Hazards identification

Signal word	: Danger
Hazard statements	: Flammable liquid and vapor. Harmful if swallowed or if inhaled. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing cancer.
Precautionary statement	<u>S</u>
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: SIGMA SAILADVANCE GX BROWN

#### Product name SIGMA SAILADVANCE GX BROWN

### Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
dícopper oxide	≥20 - ≤50	1317-39-1
rosin	≥10 - ≤15	8050-09-7
zineb (ISO)	≥5.0 - ≤10	12122-67-7
4-methylpentan-2-one	≥5.0 - ≤10	108-10-1
zinc oxide	≥5.0 - ≤8.9	1314-13-2
Propane, 1-(ethenyloxy)-2-methyl-, polymer with chloroethene	≥1.0 - ≤5.0	25154-85-2
Solvent naphtha (petroleum), light aromatic	≥1.0 - ≤5.0	64742-95-6
xylene	≥1.0 - ≤4.0	1330-20-7
diiron trioxide	≥1.0 - ≤5.0	1309-37-1
1,2,4-trimethylbenzene	≥0.10 - ≤2.9	95-63-6
Talc , not containing asbestiform fibres	≤2.0	14807-96-6
copper oxide	≥1.0 - ≤4.6	1317-38-0
carbon black	≥1.0 - ≤5.0	1333-86-4
ethylbenzene	<1.0	100-41-4

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	<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. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
<b>.</b>	

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: Causes serious eye damage.	
Inhalation	: Harmful if inhaled.	
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.	
Ingestion	: Harmful if swallowed.	
Over-exposure signs/symptoms		

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## Section 4. First aid measures

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

Notes to physician Specific treatments	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours.</li> <li>No specific treatment.</li> </ul>	
Protection of first-aiders	suspected that fumes are still p self-contained breathing appar	ng any personal risk or without suitable training. If it is present, the rescuer should wear an appropriate mask or atus. It may be dangerous to the person providing aid to ion. Wash contaminated clothing thoroughly with water ves.

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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur 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.

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### Section 5. Fire-fighting measures

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	tive 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	entainment 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. 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.

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# Section 7. Handling and storage

Special precautions Advice on general	<ul> <li>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.</li> <li>Eating, drinking and smoking should be prohibited in areas where this material is</li> </ul>
occupational hygiene	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				
dícopper oxide	ACGIH TLV (United States, 7/2023). [copper				
	fume]				
	TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Fume				
rosin	ACGIH TLV (United States, 7/2023). [resin				
	acids] Skin sensitizer. Inhalation sensitizer.				
	TWA: 0.001 mg/m³, (as total Resin acids) 8				
	hours. Form: Inhalable fraction				
zineb (ISO)	None.				
4-methylpentan-2-one	ACGIH TLV (United States, 7/2023).				
	STEL: 75 ppm 15 minutes.				
	TWA: 20 ppm 8 hours.				
	OSHA PEL (United States, 5/2018). TWA: 410 mg/m <sup>3</sup> 8 hours.				
	TWA: 100 ppm 8 hours.				
zinc oxide	OSHA PEL (United States, 5/2018).				
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Fume				
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable				
	fraction				
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust				
	ACGIH TLV (United States, 7/2023).				
	STEL: 10 mg/m <sup>3</sup> 15 minutes. Form:				
	Respirable fraction				
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable				
Dranana 1 (athenylayy) 2 mathul nalymary with ablaraathana	fraction				
Propane, 1-(ethenyloxy)-2-methyl-, polymer with chloroethene	None. None.				
Solvent naphtha (petroleum), light aromatic					
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### Section 8. Exposure controls/personal protection

xylene     OSHA PEL (United States, 5/2018). (Xylenes)       iliron trioxide     TWA: 435 mg/m³ 8 hours. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 7/2023). [p- xylene and mixtures containing p-xylene] Ototoxicant. TWA: 20 ppm 8 hours. ACGIH TLV (United States, 7/2023). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction       1,2,4-trimethylbenzene     TWA: 5 mg/m³ 8 hours. Form: Total dust ACGIH TLV (United States, 7/2023). TWA: 5 mg/m³ 8 hours. Form: Total dust ACGIH TLV (United States, 7/2023). TWA: 5 mg/m³ 8 hours. Form: Total dust ACGIH TLV (United States, 7/2023). TWA: 10 ppm 8 hours. Copper oxide       carbon black     ACGIH TLV (United States, 7/2023). TWA: 2 mg/m³ 8 hours. Form: Respirable fraction       carbon black     ACGIH TLV (United States, 7/2023). TWA: 2 mg/m³ 8 hours. Form: Imme ACGIH TLV (United States, 7/2023). TWA: 2 mg/m³ 8 hours. Form: Imme ACGIH TLV (United States, 7/2023). TWA: 3 mg/m³ 8 hours. Form: Imme ACGIH TLV (United States, 7/2023). TWA: 3 mg/m³ 8 hours. Form: Imme ACGIH TLV (United States, 7/2023). TWA: 3 mg/m³ 8 hours. Form: Imme ACGIH TLV (United States, 7/2023). TWA: 3 mg/m³ 8 hours. TWA: 435 mg/m³ 8 hours. TWA: 5 mg/m³ 8 hours. TWA: 435 mg/m³ 8 hours. TWA: 435 mg/m³ 8 hours. TWA: 5 mg/m³ 8 hours. TWA: 5			
Image: State Stat	xyler	ne	OSHA PEL (United States, 5/2018).
<sup>1</sup> TWA: 130 mg/m <sup>2</sup> 8 hours. TWA: 100 ppm 8 hours. <b>ACGIH TLV (United States, 7/2023). [p-</b> <b>xylene and mixtures containing p-xylene]</b> <b>Ototoxicant.</b> TWA: 20 ppm 8 hours. <b>ACGIH TLV (United States, 7/2023).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction <b>OSHA PEL (United States, 7/2023).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction <b>OSHA PEL (United States, 7/2023).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Total dust <b>ACGIH TLV (United States, 7/2023).</b> TWA: 10 ppm 8 hours. Form: Respirable fraction TWA: 10 ppm 8 hours. Form: Respirable fraction TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable OSHA PEL 23 (United States, 7/2023). TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable OSHA PEL 23 (United States, 7/2023). [copper fume] TWA: 0 ppm 8 hours. Form: Fume <b>Carbon</b> black <b>ACGIH TLV (United States, 7/2023).</b> [copper fume] tWA: 3 mg/m <sup>3</sup> 8 hours. Form: Fume <b>Carbon</b> black <b>ACGIH TLV (United States, 7/2023).</b> <b>OSHA PEL (United States, 7/2023).</b> <b>Ototoxicant.</b> TWA: 35 mg/m <sup>3</sup> 8 hours. <b>Second States, 7/2023).</b> <b>Ototoxicant.</b> TWA: 35 mg/m <sup>3</sup> 8 hours. <b>Second States, 7/2023).</b> <b>Ototoxicant.</b> TWA: 30 ppm 8 hours. <b>Second States, 7/2023).</b> <b>Ototoxicant.</b> TWA: 30 ppm 8 hours. <b>Second States, 7/2023).</b> <b>Ototoxicant.</b> <b>TWA: 35 mg/m<sup>3</sup> 8 hours.</b> <b>TWA: 30 mg/m<sup>3</sup> 8 hours.</b> <b>TWA: 100 ppm 8 hours.</b> <b>TWA: 30 mg/m<sup>3</sup> 8 hours.</b> <b>TWA: 100 ppm 8 hours.</b> <b>TWA: 30 mg/m<sup>3</sup> 8 hours.</b> <b>TWA: 30 mg/m<sup>3</sup> 8 hours.</b>	-		
diiron trioxide       TWA: 100 ppm 8 hours.         diiron trioxide       ACGIH TLV (United States, 7/2023). [p- xylene and mixtures containing p-xylene] Ototoxicant.         TWA: 20 ppm 8 hours.       ACGIH TLV (United States, 7/2023).         TWA: 5 mg/m³ 8 hours. Form: Respirable fraction       OSHA PEL (United States, 7/2023).         TWA: 5 mg/m³ 8 hours. Form: Respirable fraction       TWA: 5 mg/m³ 8 hours. Form: Respirable fraction         1.2.4-trimethylbenzene       TWA: 15 mg/m³ 8 hours. Form: Respirable fraction         1.2.4-trimethylbenzene       ACGIH TLV (United States, 7/2023).         Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023).         TWA: 2 mg/m³ 8 hours. Form: Respirable ostates).       TWA: 2 mg/m³ 8 hours. Form: Respirable OSHA PEL 23 (United States, 7/2023).         copper oxide       ACGIH TLV (United States, 7/2023).       TWA: 2 mg/m³ 8 hours. Form: Fume ACGIH TLV (United States, 7/2023).         ethylbenzene       ACGIH TLV (United States, 7/2023).       TWA: 3 mg/m³ 8 hours.         ethylbenzene       ACGIH TLV (United States, 7/2023).       TWA: 3 mg/m³ 8 hours.         A       = Acceptable Maximum Peak ACGIH = American Conference of Governmental Industrial Hygienists.       S       = Potential skin absorption SR = Respiratory sensitization         A       = Acceptable Maximum Peak ACGIH = American Conference of Governmental Industrial Hygienists.       S = Potential skin absorption SR = Respirable			
ACGHTLLV (United States, 7/2023), [p-xylene and mixtures containing p-xylene] Ototoxicant.         TWA: 20 ppm 8 hours.         ACGHTLV (United States, 7/2023), TWA: 5 mg/m³ 8 hours. Form: Respirable fraction         OSHA PEL (United States, 7/2023), TWA: 5 mg/m³ 8 hours. Form: Respirable fraction         1.2,4-trimethylbenzene         1.2,4-trimethylbenzene         Talc , not containing asbestiform fibres         Talc , not containing asbestiform fibres         Talc , not containing asbestiform fibres         Copper oxide         Carbon black         Carbon black         ACGHTLV (United States, 7/2023), [copper furme]         TWA: 3 mg/m³ 8 hours. Form: Furme         Carbon black         ACGHTLV (United States, 7/2023), [copper furme]         TWA: 3 mg/m³ 8 hours. Form: Furme         Carbon black       ACGHTLV (United States, 7/2023), [copper furme]         TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction         OSHA PEL (United States, 7/2023), TWA: 3 mg/m³ 8 hours.         Carbon black       ACGHTLV (United States, 5/2018), TWA: 35 mg/m³ 8 hours.         A       Acceptable Maximum Peak ACGHT TLV (United States, 5/2018), TWA: 435 mg/m³ 8 hours.         Carbon black       S         A       Acceptable Maximum Peak ACGHT TLV (United States, 5/2018), TWA: 435 mg/m³ 8 hours.         Carbon black       S			
diiron trioxide       xylene and mixtures containing p-xylene] Ototoxicant. TWA: 20 ppm 8 hours.         ACGHT LV (United States, 7/2023). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction       OSHA PEL (United States, 5/2018). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Total dust         1,2,4-trimethylbenzene       TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Total dust         Talc , not containing asbestiform fibres       ACGHT LV (United States, 7/2023). TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction         Talc , not containing asbestiform fibres       ACGHT LV (United States, 7/2023). TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable OSHA PEL Z3 (United States, 7/2023). TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable OSHA PEL Z3 (United States, 7/2023). TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Fume         carbon black       ACGHT LV (United States, 7/2023). TWA: 0 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction         oSHA PEL (United States, 7/2023). TWA: 3.5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction         oSHA PEL (United States, 5/2018). TWA: 3.5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction         OSHA PEL (United States, 5/2018). TWA: 3.5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction         OSHA PEL (United States, 5/2018). TWA: 35 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction         A       Acceptable Maximum Peak ACGH         A       A coceptable Maximum Peak ACGH         ACGH       S         A       Acceptable Maximum Peak ACGH         ACGH       S         A       Acceptable Maximum Peak ACGH       S			
diiron trioxide       Ototoxicant. TWA: 20 ppm 8 hours.         diiron trioxide       TWA: 25 mg/m³ 8 hours. Form: Respirable fraction         OSHA PEL (United States, 5/2018).       TWA: 5 mg/m³ 8 hours. Form: Respirable fraction         1.2,4-trimethylbenzene       TWA: 15 mg/m³ 8 hours. Form: Total dust         Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023). TWA: 10 ppm 8 hours.         Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023). TWA: 2 mg/m³ 8 hours. Form: Respirable OSHA PEL Z3 (United States, 7/2023). TWA: 2 mg/m³ 8 hours. Form: Respirable OSHA PEL Z3 (United States, 7/2023). TWA: 2 mg/m³ 8 hours. Form: Fume ACGIH TLV (United States, 7/2023). TWA: 3 mg/m³ 8 hours. Form: Fume ACGIH TLV (United States, 7/2023). TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction OSHA PEL United States, 7/2023). TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction OSHA PEL United States, 7/2023). Ototoxicant. TWA: 20 ppm 8 hours. TWA: 20 ppm 8 hours. TWA: 100 ppm 8 hours.         A       Acceptable Maximum Peak ACGIH TLV (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 100 ppm 8 hours.         C       C = Celling Limit F       S         F       Fume IPEL       Fortilat skin absorption STEL         PL       S       S         F       Fortilat skin absorption STEL       STEL         C       C = Celling Limit F       STEL         F       Fume       STEL <tr< th=""><th></th><th></th><th>· · · · · · ·</th></tr<>			· · · · · · ·
diiron trioxide       TWA: 20 ppm 8 hours.         ACGIH TLV (United States, 7/2023).         TWA: 5 mg/m³ 8 hours. Form: Respirable fraction         OSHA PEL (United States, 7/2023).         TWA: 5 mg/m³ 8 hours. Form: Respirable fraction         1.2,4-trimethylbenzene         Talc , not containing asbestiform fibres         Talc , not containing asbestiform fibres         Copper oxide         copper oxide         carbon black         thylbenzene         Carbon black <th></th> <th></th> <th></th>			
diiron trioxide       ACGIH T.LV (United States, 7/2023). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction         1.2.4-trimethylbenzene       OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: Total dust         1.2.4-trimethylbenzene       ACGIH TLV (United States, 7/2023). TWA: 15 mg/m³ 8 hours. Form: Total dust         Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023). TWA: 10 ppm 8 hours.         copper oxide       ACGIH TLV (United States, 7/2023). TWA: 2 mg/m³ 8 hours. Form: Respirable OSHA PEL 23 (United States). TWA: 2 mg/m³ 8 hours. Form: Respirable         copper oxide       ACGIH TLV (United States, 7/2023). TWA: 2 mg/m³ 8 hours. Form: Respirable         carbon black       TWA: 0.2 mg/m³ 8 hours. Form: Fume         ethylbenzene       ACGIH TLV (United States, 7/2023). TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction         ethylbenzene       Key to abbreviations         ACGIH TLV (United States, 5/2018). TWA: 325 mg/m³ 8 hours.         A       = Acceptable Maximum Peak ACGIH TLV (United States, 5/2018). TWA: 35 mg/m³ 8 hours.         A       = Acceptable Maximum Peak ACGIH TLV (United States, 5/2018). TWA: 35 mg/m³ 8 hours.         A       = Acceptable Maximum Peak ACGIH TLV (United States, 5/2018). TWA: 35 mg/m³ 8 hours.         C       = Ceiling Limit F       S       = Potential skin absorption STEL       S         F       = Fume IPEL       = Internal Permissible Exposure Limit OSHA       S			
TWA: 5 mg/m³ 8 hours. Form: Respirable fraction         OSHA PEL (United States, 5/2018).         TWA: 5 mg/m³ 8 hours. Form: Respirable fraction         OSHA PEL (United States, 5/2018).         TWA: 5 mg/m³ 8 hours. Form: Total dust         1.2,4-trimethylbenzene         Talc , not containing asbestiform fibres         Talc , not containing asbestiform fibres         Copper oxide         copper oxide         Carbon black         Carbon black         ethylbenzene         Carbon black         Ethylbenzene         Carbon black         ACGIH TLV (United States, 7/2023).         TWA: 2 mg/m³ 8 hours. Form: Respirable 0SHA PEL 23 (United States, 7/2023).         TWA: 2 mg/m³ 8 hours. Form: Fume         ACGIH TLV (United States, 7/2023).         TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction         OSHA PEL (United States, 5/2018).         TWA: 3.5 mg/m³ 8 hours.         ethylbenzene         Key to abbreviations         A         A         A         A         A         A coceptable Maximum Peak         ACGIH TLV (United States, 5/2018).         TWA: 400 ppm 8 hours.         C = Ceiling Limit         F = Fume			
fraction       OSHA PEL (United States, 5/2018).         TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction       TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust         1,2,4-trimethylbenzene       ACGIH TLV (United States, 7/2023).         Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023).         TWA: 10 ppm 8 hours. Form: Respirable OSHA PEL Z3 (United States).       TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable OSHA PEL Z3 (United States).         copper oxide       ACGIH TLV (United States, 7/2023). [copper fume]         carbon black       ACGIH TLV (United States, 7/2023). [copper fume]         carbon black       ACGIH TLV (United States, 7/2023). [copper fume]         ethylbenzene       ACGIH TLV (United States, 7/2023).         twa: 2 mg/m <sup>3</sup> 8 hours. Form: Fume       ACGIH TLV (United States, 7/2023).         twa: 3 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction       OSHA PEL (United States, 7/2023).         twa: 3 mg/m <sup>3</sup> 8 hours.       Form: Inhalable fraction         oSHA PEL (United States, 7/2023).       Ototoxicant.         twa: 3 mg/m <sup>3</sup> 8 hours.       S         ethylbenzene       S         Key to abbreviations       S         A       Acceptable Maximum Peak         ACGIH TLV (United States, 7/2023).       Ototoxicant.         TWA: 20 ppm 8 hours.       TWA: 435 mg/m <sup>3</sup> 8 hours.         C = Ceilin	diiro	n trioxide	•
A       = Acceptable Maximum Peak         ethylbenzene       S         Talc       , not containing asbestiform fibres         Copper oxide       ACGIH TLV (United States, 7/2023). TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable OSHA PEL Z3 (United States). TWA: 2 mg/m <sup>3</sup> carbon black       ACGIH TLV (United States, 7/2023). TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Fume         ethylbenzene       ACGIH TLV (United States, 7/2023). TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction         oSHA PEL (United States, 7/2023).       TWA: 3.5 mg/m <sup>3</sup> 8 hours.         ethylbenzene       ACGIH TLV (United States, 7/2023). TWA: 3.5 mg/m <sup>3</sup> 8 hours.         A       = Acceptable Maximum Peak         A       = Acceptable Maximum Peak         ACGIH       = Potential skin absorption         SR       = Potential skin absorption         SR       = Skin sensitization         R       = Respiratory sensitization         R       = Respirate         R       = Respirate         R       = Respirate			•
A       = Acceptable Maximum Peak       S       = Potential skin absorption         A       = Acceptable Maximum Peak       S       = Potential skin absorption         A       = Acceptable Maximum Peak       S       = Potential skin absorption         A       = Acceptable Maximum Peak       S       = Potential skin absorption         A       = Acceptable Maximum Peak       S       = Potential skin absorption         A       = Acceptable Maximum Peak       S       = Potential skin absorption         A       = Acceptable Maximum Peak       S       = Potential skin absorption         A       = Acceptable Maximum Peak       S       = Potential skin absorption         A       = Acceptable Maximum Peak       S       = Potential skin absorption         B       = Respirable       TWA       TWA       TWA         B       = Respirable       TWA       TWA       TWA         C       = Celling Limit       S       = Potential skin absorption         C       = Celling Limit       S       = Potential skin absorption         C       = Celling Limit       S       = Store sensitization         C       = Celling Limit       TWA       TWA       TWA         C       = Celling Limit			
fraction       fraction         1,2,4-trimethylbenzene       TWA: 15 mg/m³ 8 hours. Form: Total dust         Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023).         TWA: 10 ppm 8 hours.       TWA: 20 pg/m³ 8 hours. Form: Respirable         copper oxide       ACGIH TLV (United States, 7/2023).         copper oxide       ACGIH TLV (United States, 7/2023).         carbon black       ACGIH TLV (United States, 7/2023).         carbon black       ACGIH TLV (United States, 7/2023).         ethylbenzene       TWA: 0.2 mg/m³ 8 hours. Form: Fume         ACGIH TLV (United States, 7/2023).       TWA: 0.2 mg/m³ 8 hours. Form: Inhalable fraction         OSHA PEL (United States, 5/2018).       TWA: 3.5 mg/m³ 8 hours.         two abbreviations       ACGIH TLV (United States, 5/2018).         two: 2.0 ppm 8 hours.       Set on g/m³ 8 hours.         OSHA PEL (United States, 5/2018).       TWA: 435 mg/m³ 8 hours.         two: 2.0 ppm 8 hours.       OSHA PEL (United States, 5/2018).         two: 2.0 ppm 8 hours.       TWA: 435 mg/m³ 8 hours.         ACGIH TLY (United States, 5/2018).       TWA: 435 mg/m³ 8 hours.         two: 2.0 ppm 8 hours.       TWA: 30 ppm 8 hours.         ethylbenzene       S = Potential skin absorption         ACGIH TLY (United States, 5/2018).       TWA: 35 mg/m³ 8 hours.     <			OSHA PEL (United States, 5/2018).
fraction       fraction         1,2,4-trimethylbenzene       TWA: 15 mg/m³ 8 hours. Form: Total dust         Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023).         TWA: 10 ppm 8 hours.       TWA: 20 pg/m³ 8 hours. Form: Respirable         copper oxide       ACGIH TLV (United States, 7/2023).         copper oxide       ACGIH TLV (United States, 7/2023).         carbon black       ACGIH TLV (United States, 7/2023).         carbon black       ACGIH TLV (United States, 7/2023).         ethylbenzene       TWA: 0.2 mg/m³ 8 hours. Form: Fume         ACGIH TLV (United States, 7/2023).       TWA: 0.2 mg/m³ 8 hours. Form: Inhalable fraction         OSHA PEL (United States, 5/2018).       TWA: 3.5 mg/m³ 8 hours.         two abbreviations       ACGIH TLV (United States, 5/2018).         two: 2.0 ppm 8 hours.       Set on g/m³ 8 hours.         OSHA PEL (United States, 5/2018).       TWA: 435 mg/m³ 8 hours.         two: 2.0 ppm 8 hours.       OSHA PEL (United States, 5/2018).         two: 2.0 ppm 8 hours.       TWA: 435 mg/m³ 8 hours.         ACGIH TLY (United States, 5/2018).       TWA: 435 mg/m³ 8 hours.         two: 2.0 ppm 8 hours.       TWA: 30 ppm 8 hours.         ethylbenzene       S = Potential skin absorption         ACGIH TLY (United States, 5/2018).       TWA: 35 mg/m³ 8 hours.     <			TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
1,2,4-trimethylbenzene       ACGIH TLV (United States, 7/2023).         Talc , not containing asbestiform fibres       TWA: 10 ppm 8 hours.         Talc , not containing asbestiform fibres       TWA: 2 mg/m³ 8 hours. Form: Respirable         copper oxide       TWA: 2 mg/m³         carbon black       TWA: 0.2 mg/m³ 8 hours. Form: Fume         carbon black       ACGIH TLV (United States, 7/2023). [copper fume]         tehylbenzene       TWA: 0.2 mg/m³ 8 hours. Form: Fume         ACGIH TLV (United States, 7/2023).       TWA: 20 gm/m³         ethylbenzene       ACGIH TLV (United States, 7/2023).         tehylbenzene       States, 7/2023).         Key to abbreviations       TWA: 3.5 mg/m³ 8 hours.         A       ACGIH TLV (United States, 7/2023).         VIA: 4.35 mg/m³ 8 hours.       Form: Inhalable fraction         OSHA PEL (United States, 7/2023).       Ototoxicant.         TWA: 2.0 ppm 8 hours.       TWA: 2.0 ppm 8 hours.         OSHA PEL (United States, 5/2018).       TWA: 4.35 mg/m³ 8 hours.         TWA: 100 ppm 8 hours.       OSHA PEL (United States, 5/2018).         TWA: 2.0 ppm 8 hours.       TWA: 4.35 mg/m³ 8 hours.         C       Celling Limit       S         F       Fume       SE         F       Fume       SE         F			fraction
1,2,4-trimethylbenzene       ACGIH TLV (United States, 7/2023).         Talc , not containing asbestiform fibres       TWA: 10 ppm 8 hours.         Talc , not containing asbestiform fibres       TWA: 2 mg/m³ 8 hours. Form: Respirable         copper oxide       TWA: 2 mg/m³         carbon black       TWA: 0.2 mg/m³ 8 hours. Form: Fume         carbon black       ACGIH TLV (United States, 7/2023). [copper fume]         tehylbenzene       TWA: 0.2 mg/m³ 8 hours. Form: Fume         ACGIH TLV (United States, 7/2023).       TWA: 20 gm/m³         ethylbenzene       ACGIH TLV (United States, 7/2023).         tehylbenzene       States, 7/2023).         Key to abbreviations       TWA: 3.5 mg/m³ 8 hours.         A       ACGIH TLV (United States, 7/2023).         VIA: 4.35 mg/m³ 8 hours.       Form: Inhalable fraction         OSHA PEL (United States, 7/2023).       Ototoxicant.         TWA: 2.0 ppm 8 hours.       TWA: 2.0 ppm 8 hours.         OSHA PEL (United States, 5/2018).       TWA: 4.35 mg/m³ 8 hours.         TWA: 100 ppm 8 hours.       OSHA PEL (United States, 5/2018).         TWA: 2.0 ppm 8 hours.       TWA: 4.35 mg/m³ 8 hours.         C       Celling Limit       S         F       Fume       SE         F       Fume       SE         F			TWA: 15 mɑ/m³ 8 hours. Form: Total dust
Talc , not containing asbestiform fibres       TWA: 10 ppm 8 hours.         Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023).         TWA: 2 mg/m³ 8 hours. Form: Respirable       OSHA PEL Z3 (United States).         copper oxide       ACGIH TLV (United States, 7/2023). [copper fume]         carbon black       ACGIH TLV (United States, 7/2023). [copper fume]         carbon black       ACGIH TLV (United States, 7/2023).         ethylbenzene       ACGIH TLV (United States, 7/2023).         twA: 3 mg/m³ 8 hours. Form: Inhalable fraction       OSHA PEL (United States, 5/2018).         TWA: 3.5 mg/m³ 8 hours.       TWA: 3.5 mg/m³ 8 hours.         ethylbenzene       ACGIH TLV (United States, 7/2023).         Votice       TWA: 3.5 mg/m³ 8 hours.         ethylbenzene       OSHA PEL (United States, 5/2018).         TWA: 20 ppm 8 hours.       TWA: 435 mg/m³ 8 hours.         OSHA PEL (United States, 5/2018).       TWA: 435 mg/m³ 8 hours.         C       acceptable Maximum Peak       \$ = Potential skin absorption         ACGIH = American Conference of Governmental Industrial Hygienists.       S R = Respiratory sensitization         C       = Ceiling Limit       S = Potential skin absorption         F = Fume       STEL = Short term Exposure limit values       S = Skin sensitization         IPEL = Internal Permissible E	1.2.4	1-trimethylbenzene	
Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023).         TWA: 2 mg/m³ 8 hours. Form: Respirable       OSHA PEL Z3 (United States).         copper oxide       ACGIH TLV (United States, 7/2023).         carbon black       ACGIH TLV (United States, 7/2023).         ethylbenzene       ACGIH TLV (United States, 7/2023).         thylbenzene       ACGIH TLV (United States, 7/2023).         ACGIH TLV (United States, 7/2023).       TWA: 2 mg/m³ 8 hours. Form: Fume         ACGIH TLV (United States, 7/2023).       TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction         OSHA PEL (United States, 5/2018).       TWA: 3.5 mg/m³ 8 hours.         two: 2 0 ppm 8 hours.       Ototoxicant.         TWA: 20 ppm 8 hours.       TWA: 20 ppm 8 hours.         OSHA PEL (United States, 5/2018).       TWA: 435 mg/m³ 8 hours.         TWA: 20 ppm 8 hours.       TWA: 100 ppm 8 hours.         TWA: 435 mg/m³ 8 hours.       TWA: 100 ppm 8 hours.         CEIH = American Conference of Governmental Industrial Hygienists.       S = Potential skin absorption         C = Ceiling Limit       S = Potential skin absorption         F = Fume       STEL = Short term Exposure limit values         IPEL = Internal Permissible Exposure Limit       TD = Total dust         OSHA PEL Curve Threshold Limit Value       TLV = Threshold Limit Value	.,_,		
copper oxide       TWA: 2 mg/m³ 8 hours. Form: Respirable         copper oxide       TWA: 2 mg/m³         carbon black       ACGIH TLV (United States, 7/2023). [copper fume]         carbon black       TWA: 0.2 mg/m³ 8 hours. Form: Fume         ethylbenzene       ACGIH TLV (United States, 7/2023).         tethylbenzene       OSHA PEL (United States, 7/2023).         tethylbenzene       ACGIH TLV (United States, 7/2023).         tethylbenzene       ACGIH TLV (United States, 7/2023).         tethylbenzene       S mg/m³ 8 hours.         tethylbenzene       ACGIH TLV (United States, 5/2018).         TWA: 3.5 mg/m³ 8 hours.       TWA: 435 mg/m³ 8 hours.         tethylbenzene       S mg/m³ 8 hours.         tethylbenzene<	Talc	not containing ashestiform fibres	••
copper oxide       OSHA PEL Z3 (United States). TWA: 2 mg/m³         carbon black       TWA: 0.2 mg/m³ 8 hours. Form: Fume         carbon black       ACGIH TLV (United States, 7/2023). TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction         oSHA PEL (United States, 7/2023).       TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction         oSHA PEL (United States, 5/2018).       TWA: 3.5 mg/m³ 8 hours.         ethylbenzene       ACGIH TLV (United States, 7/2023).         Ototoxicant.       TWA: 2.0 ppm 8 hours.         TWA: 20 ppm 8 hours.       OSHA PEL (United States, 5/2018).         TWA: 20 ppm 8 hours.       OSHA PEL (United States, 5/2018).         TWA: 20 ppm 8 hours.       OSHA PEL (United States, 5/2018).         TWA: 20 ppm 8 hours.       TWA: 100 ppm 8 hours.         OSHA PEL (United States, 5/2018).       TWA: 100 ppm 8 hours.         TWA: 100 ppm 8 hours.       S       = Potential skin absorption         ACGIH = American Conference of Governmental Industrial Hygienists.       SR       = Respiratory sensitization         G       = Ceiling Limit       S       \$S m sensitization         F       = Fume       STEL       = Short term Exposure limit values         IPEL       Internal Permissible Exposure Limit       TD       = Total dust         OSHA       = Occupational Safety and Health Administration. <td< th=""><th>Taic</th><th>, not containing assestion in hores</th><th>•</th></td<>	Taic	, not containing assestion in hores	•
copper oxide       TWA: 2 mg/m³         carbon black       ACGIH TLV (United States, 7/2023). [copper fume]         carbon black       TWA: 0.2 mg/m³ 8 hours. Form: Fume         ethylbenzene       ACGIH TLV (United States, 7/2023).         twA: 3 mg/m³ 8 hours.       TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction         OSHA PEL (United States, 5/2018).       TWA: 3.5 mg/m³ 8 hours.         ethylbenzene       ACGIH TLV (United States, 7/2023).         Ototoxicant.       TWA: 2.0 ppm 8 hours.         OSHA PEL (United States, 5/2018).       TWA: 20 ppm 8 hours.         OSHA PEL (United States, 5/2018).       TWA: 435 mg/m³ 8 hours.         TWA: 100 ppm 8 hours.       TWA: 100 ppm 8 hours.         C       Ceiling Limit         F       F nume         F       Fume         IPEL       Internal Permissible Exposure Limit         OSHA       Occupational Safety and Health Administration.         R       R espirable         TWA       Time Weighted Average			
copper oxide       ACGIH TLV (United States, 7/2023). [copper fume]         carbon black       TWA: 0.2 mg/m³ 8 hours. Form: Fume         carbon black       ACGIH TLV (United States, 7/2023).         twA: 0.2 mg/m³ 8 hours. Form: Inhalable       Fraction         oSHA PEL (United States, 5/2018).       TWA: 3.5 mg/m³ 8 hours.         ethylbenzene       ACGIH TLV (United States, 7/2023).         VWA: 3.5 mg/m³ 8 hours.       ACGIH TLV (United States, 7/2023).         OSHA PEL (United States, 7/2023).       TWA: 3.5 mg/m³ 8 hours.         ACGIH TLV (United States, 7/2023).       Ototoxicant.         TWA: 20 ppm 8 hours.       OSHA PEL (United States, 5/2018).         TWA: 20 ppm 8 hours.       TWA: 435 mg/m³ 8 hours.         OSHA PEL (United States, 5/2018).       TWA: 435 mg/m³ 8 hours.         TWA: 100 ppm 8 hours.       TWA: 100 ppm 8 hours.         CGIH = American Conference of Governmental Industrial Hygienists.       SR = Respiratory sensitization         C = Ceiling Limit       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 = Threshool Limit Value         R = Respirable       TWA = Time Weighted Average			
fume]       TWA: 0.2 mg/m³ 8 hours. Form: Fume         ACGIH TLV (United States, 7/2023).       TWA: 3 mg/m³ 8 hours. Form: Inhalable         fraction       OSHA PEL (United States, 5/2018).         twA: 3.5 mg/m³ 8 hours.       TWA: 3.5 mg/m³ 8 hours.         ethylbenzene       ACGIH TLV (United States, 7/2023).         TWA: 3.5 mg/m³ 8 hours.       ACGIH TLV (United States, 7/2023).         Ototoxicant.       TWA: 20 ppm 8 hours.         OSHA PEL (United States, 5/2018).       TWA: 20 ppm 8 hours.         OSHA PEL (United States, 5/2018).       TWA: 435 mg/m³ 8 hours.         TWA: 100 ppm 8 hours.       TWA: 100 ppm 8 hours.         C       Ceiling Limit       S         F       = Fume       SR       = Respiratory sensitization         F       = Fume       STEL       = Short term Exposure limit values         IPEL       Internal Permissible Exposure Limit       TD       = Total dust         OSHA       Occupational Safety and Health Administration.       TLV       = Time Weighted Average			•
carbon black       TWÄ: 0.2 mg/m³ 8 hours. Form: Fume         ACGIH TLV (United States, 7/2023).       TWA: 3 mg/m³ 8 hours. Form: Inhalable         fraction       OSHA PEL (United States, 5/2018).         tWA: 3.5 mg/m³ 8 hours.       TWA: 3.5 mg/m³ 8 hours.         ethylbenzene       ACGIH TLV (United States, 7/2023).         Ototoxicant.       TWA: 3.5 mg/m³ 8 hours.         TWA: 20 ppm 8 hours.       Ototoxicant.         TWA: 435 mg/m³ 8 hours.       TWA: 435 mg/m³ 8 hours.         VEV to abbreviations       S         A       = Acceptable Maximum Peak         ACGIH       = American Conference of Governmental Industrial Hygienists.         C       = Ceiling Limit         F       = Fume         IPEL       = Internal Permissible Exposure Limit         IPEL       = Internal Permissible Exposure Limit         OSHA       = Occupational Safety and Health Administration.         R       = Respirable	copp	Der oxide	
carbon black       ACGIH TLV (United States, 7/2023).         TWA: 3 mg/m³ 8 hours. Form: Inhalable         fraction       OSHA PEL (United States, 5/2018).         TWA: 3.5 mg/m³ 8 hours.         ethylbenzene       ACGIH TLV (United States, 7/2023).         Ototoxicant.       TWA: 3.5 mg/m³ 8 hours.         Ototoxicant.       TWA: 20 ppm 8 hours.         OSHA PEL (United States, 5/2018).       TWA: 20 ppm 8 hours.         OSHA PEL (United States, 5/2018).       TWA: 35 mg/m³ 8 hours.         VMA: 20 ppm 8 hours.       OSHA PEL (United States, 5/2018).         TWA: 30 ppm 8 hours.       TWA: 435 mg/m³ 8 hours.         VMA: 100 ppm 8 hours.       TWA: 100 ppm 8 hours.         C       Ceiling Limit       S         F       Fume       SR       Respiratory sensitization         F       Fume       STEL       Short term Exposure limit values         IPEL       Internal Permissible Exposure Limit       STEL       Short term Exposure limit values         R       Respirable       TWA       Threshold Limit Value         R       Respirable       TWA       Time Weighted Average			•
ethylbenzene       TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction         OSHA PEL (United States, 5/2018).       TWA: 3.5 mg/m³ 8 hours.         TWA: 3.5 mg/m³ 8 hours.       ACGIH TLV (United States, 7/2023).         Ototoxicant.       TWA: 20 ppm 8 hours.         OSHA PEL (United States, 5/2018).       TWA: 20 ppm 8 hours.         OSHA PEL (United States, 5/2018).       TWA: 435 mg/m³ 8 hours.         TWA: 435 mg/m³ 8 hours.       TWA: 435 mg/m³ 8 hours.         OSHA PEL (United States, 5/2018).       TWA: 100 ppm 8 hours.         VA: 100 ppm 8 hours.       TWA: 100 ppm 8 hours.         C       american Conference of Governmental Industrial Hygienists.       S = Potential skin absorption         C       american Conference of Governmental Industrial Hygienists.       SR = Respiratory 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         R       a Respirable       TWA       = Time Weighted Average			
fraction       OSHA PEL (United States, 5/2018).         TWA: 3.5 mg/m³ 8 hours.       TWA: 3.5 mg/m³ 8 hours.         ACGIH TLV (United States, 7/2023).       Ototoxicant.         TWA: 20 ppm 8 hours.       OSHA PEL (United States, 5/2018).         TWA: 20 ppm 8 hours.       OSHA PEL (United States, 5/2018).         TWA: 435 mg/m³ 8 hours.       TWA: 435 mg/m³ 8 hours.         TWA: 100 ppm 8 hours.       TWA: 100 ppm 8 hours.         C       Ceiling Limit       S         F       Fume       SR         IPEL       Internal Permissible Exposure Limit       SR         OSHA       Occupational Safety and Health Administration.       TU         R       Respirable       TWA	carb	on black	ACGIH TLV (United States, 7/2023).
ethylbenzene       OSHA PEL (United States, 5/2018). TWA: 3.5 mg/m³ 8 hours. ACGIH TLV (United States, 7/2023). Ototoxicant. TWA: 20 ppm 8 hours. OSHA PEL (United States, 5/2018). TWA: 435 mg/m³ 8 hours. TWA: 100 ppm 8 hours.         A       = Acceptable Maximum Peak ACGIH       S       = Potential skin absorption SS         A       = Acceptable Maximum Peak ACGIH       S       = Potential skin absorption SS         C       = Ceiling Limit F       = Respiratory sensitization SS       SS         F       = Short term Exposure limit values         IPEL       = Internal Permissible Exposure Limit       TD         OSHA       = Occupational Safety and Health Administration.       TLV         R       = Respirable       TWA			TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Inhalable
ethylbenzene       TWA: 3.5 mg/m³ 8 hours.         ACGIH TLV (United States, 7/2023).         Ototoxicant.         TWA: 20 ppm 8 hours.         OSHA PEL (United States, 5/2018).         TWA: 435 mg/m³ 8 hours.         TWA: 435 mg/m³ 8 hours.         OSHA PEL (United States, 5/2018).         TWA: 435 mg/m³ 8 hours.         TWA: 435 mg/m³ 8 hours.         TWA: 435 mg/m³ 8 hours.         TWA: 100 ppm 8 hours.         Key to abbreviations         A       = Acceptable Maximum Peak         ACGIH       = American Conference of Governmental Industrial Hygienists.         C       = Ceiling Limit         F       = Fume         IPEL       = Internal Permissible Exposure Limit         OSHA       = Occupational Safety and Health Administration.         R       = Respirable         TWA       = Time Weighted Average			fraction
ethylbenzene       TWA: 3.5 mg/m³ 8 hours.         ACGIH TLV (United States, 7/2023).         Ototoxicant.         TWA: 20 ppm 8 hours.         OSHA PEL (United States, 5/2018).         TWA: 435 mg/m³ 8 hours.         TWA: 435 mg/m³ 8 hours.         OSHA PEL (United States, 5/2018).         TWA: 435 mg/m³ 8 hours.         TWA: 435 mg/m³ 8 hours.         TWA: 435 mg/m³ 8 hours.         TWA: 100 ppm 8 hours.         Key to abbreviations         A       = Acceptable Maximum Peak         ACGIH       = American Conference of Governmental Industrial Hygienists.         C       = Ceiling Limit         F       = Fume         IPEL       = Internal Permissible Exposure Limit         OSHA       = Occupational Safety and Health Administration.         R       = Respirable         TWA       = Time Weighted Average			OSHA PEL (United States, 5/2018).
ethylbenzene       ACGIH TLV (United States, 7/2023).         Ototoxicant.       TWA: 20 ppm 8 hours.         OSHA PEL (United States, 5/2018).       TWA: 435 mg/m³ 8 hours.         TWA: 435 mg/m³ 8 hours.       TWA: 100 ppm 8 hours.         Key to abbreviations         A       = Acceptable Maximum Peak         A       = Acceptable Maximum Peak         ACGIH       = American Conference of Governmental Industrial Hygienists.         C       = Ceiling Limit         F       = Fume         IPEL       = Internal Permissible Exposure Limit         OSHA       = Occupational Safety and Health Administration.         R       = Respirable			
Ototoxicant.         TWA: 20 ppm 8 hours.         OSHA PEL (United States, 5/2018).         TWA: 435 mg/m³ 8 hours.         TWA: 100 ppm 8 hours.         Key to abbreviations         A       = Acceptable Maximum Peak         ACGIH       = American Conference of Governmental Industrial Hygienists.         C       = Ceiling Limit         F       = Fume         IPEL       = Internal Permissible Exposure Limit         OSHA       = Occupational Safety and Health Administration.         R       = Respirable	ethv	lbenzene	5
TWA: 20 ppm 8 hours.         OSHA PEL (United States, 5/2018).         TWA: 435 mg/m³ 8 hours.         TWA: 100 ppm 8 hours.         WA: 100 ppm 8 hours.         TWA: 100 ppm 8 hours.         Key to abbreviations         A = Acceptable Maximum Peak       S = Potential skin absorption         ACGIH = American Conference of Governmental Industrial Hygienists.       SR = Respiratory sensitization         C = Ceiling Limit       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         R = Respirable       TWA = Time Weighted Average			
OSHA PEL (United States, 5/2018). TWA: 435 mg/m³ 8 hours. TWA: 100 ppm 8 hours.         Key to abbreviations         A       = Acceptable Maximum Peak       S       = Potential skin absorption         ACGIH       = American Conference of Governmental Industrial Hygienists.       SR       = Respiratory sensitization         C       = Ceiling Limit       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         R       = Respirable       TWA       = Time Weighted Average			
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OSHA= Occupational Safety and Health Administration.TLV= Threshold Limit ValueR= RespirableTWA= Time Weighted Average			I
R = Respirable TWA = Time Weighted Average			
		•	TWA - Time Weighted Average

Consult local authorities for acceptable exposure limits.

**Recommended monitoring** : 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.

procedures

Product name SIGMA SAILADVANCE GX BROWN

# Section 8. Exposure controls/personal protection

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 meas	ures
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Chemical splash goggles and face shield.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	<ul> <li>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.</li> </ul>
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

		United States	Page: 8/18
рН	: Not applicable.		
Odor threshold	: Not available.		
Odor	: Characteristic.		
Color	: Brown.		
Physical state	: Liquid.		
Appearance			

Product name SIGMA SAILADVANCE GX BROWN

# Section 9. Physical and chemical properties

Melting point	:	Not available.	
Boiling point	:	>37.78°C (>100°F)	
Flash point	:	Closed cup: 28°C (82.4°F)	
Auto-ignition temperature	:	Not available.	
Decomposition temperature	:	Not available.	
Flammability	:	Not available.	
Lower and upper explosive (flammable) limits	:	Not available.	
Evaporation rate	:	Not available.	
Vapor pressure	1	Not available.	
Vapor density	1	Not available.	
Relative density	:	1.74	
Density(lbs / gal)	:	14.52	
		Media	Result
Solubility(ies)	1	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Viscosity	:	Kinematic (40°C (104°F)): >	>21 mm²/s (>21 cSt)
Volatility	:	45% (v/v), 21.952% (w/w)	
% Solid. (w/w)	:	78.048	

# Section 10. Stability and reactivity

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

Product name SIGMA SAILADVANCE GX BROWN

# Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dicopper oxide	LC50 Inhalation Dusts and mists	Rat	3.34 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
zineb (ISO)	LD50 Oral	Rat	>2000 mg/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Solvent naphtha (petroleum),	LD50 Dermal	Rabbit	3.48 g/kg	-
light aromatic				
	LD50 Oral	Rat	8400 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	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	5 g/kg	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
carbon black	LD50 Oral	Rat	>10 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-

#### **Conclusion/Summary**

: There are no data available on the mixture itself.

#### Irritation/Corrosion

Product/ingredient name	Result		Species	Score	Exposure	Observation		
xylene	Skin - Moderate irritar		ritant Rabbit		24 hours 500 mg	-		
<b>Conclusion/Summary</b>					·			
Skin	: There are no	data availab	ole on the mixt	ure itself.				
Eyes	: There are no	: There are no data available on the mixture itself.						
Respiratory	: There are no data available on the mixture itself.							
<u>Sensitization</u>								
Product/ingredient name	Route of exposure	Specie	S	R	esult			
zineb (ISO)	skin	Guinea	pig	Se	ensitizing			
Conclusion/Summary								
Skin	: zineb (ISO):	Weakly posi	itive.					

#### Date of issue 7 July 2024

Product name SIGMA SAILADVANCE GX BROWN

### Section 11. Toxicological information

#### **Mutagenicity**

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

#### **Conclusion/Summary**

: There are no data available on the mixture itself.

#### **Classification**

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

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

#### Reproductive toxicity

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

#### Teratogenicity

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

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
zineb (ISO)	Category 3	-	Respiratory tract irritation
4-methylpentan-2-one	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

#### Target organs

 Contains material which causes damage to the following organs: brain, central nervous system (CNS).
 Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, gastrointestinal tract, cardiovascular system, upper

respiratory tract, skin, eye, lens or cornea.

#### Aspiration hazard

Ur	Inited States	Page: 11/18
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Product name SIGMA SAILADVANCE GX BROWN

# Section 11. Toxicological information

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

#### Information on the likely routes of exposure

-	-
Potential acute health effect	<u>ets</u>
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Over-exposure signs/symp	i <u>toms</u>
Eye contact	: Adverse symptoms may include the following:
	pain
	watering
labeletien.	redness
Inhalation Skin contact	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation
	redness
	dryness
	cracking
	blistering may occur
Ingestion	: Adverse symptoms may include the following:
Deleved and immediate offer	stomach pains
	cts and also chronic effects from short and long term exposure
Conclusion/Summary	: There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
<u>Short term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
<u>Long term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	iects

Product name SIGMA SAILADVANCE GX BROWN

# Section 11. Toxicological information

General	<ul> <li>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.</li> </ul>
Carcinogenicity	<ul> <li>Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.</li> </ul>
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
SIGMA SAILADVANCE GX BROWN	1224.1	3139.9	N/A	52.0	3.2
dicopper oxide	500	2500	N/A	N/A	3.34
rosin	7600	2500	N/A	N/A	N/A
zineb (ISO)	2500	N/A	N/A	N/A	N/A
4-methylpentan-2-one	2080	N/A	N/A	11	1.5
zinc oxide	N/A	2500	N/A	N/A	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	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
1,2,4-trimethylbenzene	5000	N/A	N/A	18	1.5
copper oxide	2500	N/A	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
dicopper oxide	LC50 0.003 mg/l	Fish	96 hours
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
diiron trioxide	Acute EC50 >100 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	-

#### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
4-methylpentan-2-one ethylbenzene	OECD 301F -	83 % - Readily - 28 days 79 % - Readily - 10 days	-	-
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United State	es Page: 13/18

#### Product name SIGMA SAILADVANCE GX BROWN

## Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
4-methylpentan-2-one	-	-	Readily
xylene ethylbenzene	-	-	Readily Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
vineb (ISO)	1.9 to 7.7 1.3	-	High Low
4-methylpentan-2-one	1.9	-	Low
xylene	3.12	7.4 to 18.5	Low
1,2,4-trimethylbenzene ethylbenzene	3.63 3.6	120.23 79.43	Low Low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

### Section 13. Disposal considerations

**Disposal methods** 

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

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

### 14. Transport information

#### Product name SIGMA SAILADVANCE GX BROWN

### **14. Transport information**

	DOT	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	111	III	111
Environmental hazards	No.		Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(dicopper oxide)	Not applicable.
Product RQ (lbs)	2796.3	Not applicable.	Not applicable.
RQ substances	(xylene)	Not applicable.	Not applicable.

#### Additional information

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

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

Transport in bulk according : Not applicable. to IMO instruments

### Section 15. Regulatory information

#### **United States**

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

SARA 302/304

SARA 304 RQ : Not applicable.

#### Composition/information on ingredients

No products were found.

#### SARA 311/312

Product name SIGMA SAILADVANCE GX BROWN

# Section 15. Regulatory information

Classification	: FLAMMABLE LIQUIDS - Category 3
	ACUTE TOXICITY (oral) - Category 4
	ACUTE TOXICITY (inhalation) - Category 4
	SKIN IRRITATION - Category 2
	SERIOUS EYE DAMAGE - Category 1
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 2
	HNOC - Defatting irritant

**Composition/information on ingredients** 

Name	%	Classification
dícopper oxide	≥20 - ≤50	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SERIOUS EYE DAMAGE - Category 1
rosin	≥10 - ≤15	
	> = 0 - 110	SKIN SENSITIZATION - Category 1B
zineb (ISO)	≥5.0 - ≤10	
		SKIN SENSITIZATION - Category 1B
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
4-methylpentan-2-one	≥5.0 - ≤10	(Respiratory tract irritation) - Category 3 FLAMMABLE LIQUIDS - Category 2
4-methypentan-2-one	25.0 - 210	ACUTE TOXICITY (inhalation) - Category 4
		EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		HNOC - Defatting irritant
Propane, 1-(ethenyloxy)	≥1.0 - ≤5.0	COMBUSTIBLE DUSTS
-2-methyl-, polymer with		EYE IRRITATION - Category 2A
chloroethene		
Solvent naphtha (petroleum),	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3
light aromatic		SKIN IRRITATION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
xylene	≥1.0 - ≤4.0	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
1,2,4-trimethylbenzene	≥0.10 - ≤2.9	FLAMMABLE LIQUIDS - Category 3
·,_, · · · · · · · · · · · · · · · · · ·		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		HNOC - Defatting irritant
Talc , not containing asbestiform	≤2.0	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		United States Page: 16/18

Product name SIGMA SAILADVANCE GX BROWN

### Section 15. Regulatory information

	(Respiratory tract irritation) - Category 3
≥1.0 - ≤5.0	COMBUSTIBLE DUSTS
	CARCINOGENICITY - Category 2
<1.0	FLAMMABLE LIQUIDS - Category 2
	ACUTE TOXICITY (inhalation) - Category 4
	CARCINOGENICITY - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
	EXPOSURE) - Category 2
	ASPIRATION HAZARD - Category 1
	HNOC - Defatting irritant

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

	<u>Chemical name</u>	<u>CAS number</u>	<b>Concentration</b>
Supplier notification	: dícopper oxide	1317-39-1	15 - 40
	zineb (ISO)	12122-67-7	5 - 10
	4-methylpentan-2-one	108-10-1	5 - 10
	zinc oxide	1314-13-2	3 - 7
	xylene	1330-20-7	1 - 5
	1,2,4-trimethylbenzene	95-63-6	1 - 5
	copper oxide	1317-38-0	0.5 - 1.5
	ethylbenzene	100-41-4	0.1 - 1
	lead monoxide	1317-36-8	0.00028485

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

### Section 16. Other information

Hazardous Material Information System (U.S.A.)									
Health	:	3	*	Flammability	:	3	Physical hazards	:	

(\*) - 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.

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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 : 3Flammability : 3Instability : 1Date of previous issue: 1/16/2024Organization that prepared: EHSthe SDS

Product name SIGMA SAILADVANCE GX 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.