# **SAFETY DATA SHEET**



Date of issue/Date of revision13 December 2024Version 23

Section 1. Identification		
Product name	: SIGMADUR 550 BASE BLUE 1199	
Product code	: 00240466	
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)	
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	<ul> <li>FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A 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: 3.2% (dermal), 31.7% (inhalation)</li> </ul>

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### Section 2. Hazards identification

This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8).

	engineering controls (see Section 8).
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. 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	: 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.
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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. 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.

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### Section 2. Hazards identification

Hazards not otherwise classified

: Prolonged or repeated contact may dry skin and cause irritation.

### Section 3. Composition/information on ingredients

Substance/mixture

Product name

: Mixture

: SIGMADUR 550 BASE BLUE 1199

Ingredient name	%	CAS number
barium sulfate	≥20 - ≤50	7727-43-7
xylene	≥20 - ≤33	1330-20-7
n-butyl acetate	≥5.0 - ≤10	123-86-4
ethylbenzene	≥1.0 - ≤5.0	100-41-4
Talc , not containing asbestiform fibres	≥1.0 - ≤5.0	14807-96-6
titanium dioxide	≥1.0 - ≤5.0	13463-67-7
crystalline silica, respirable powder (<10 microns)	<1.0	14808-60-7
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	<1.0	41556-26-7
toluene	<1.0	108-88-3

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>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
I	nhalation	<ul> <li>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.</li> </ul>
\$	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.
I	ngestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

	•	d States	Page: 3/17
Ingestion	: No known significant effects or critical hazards.		
Skin contact	: Causes skin irritation. Defatting to the skin.		
Inhalation	: Harmful if inhaled. May cause respiratory irritation.		
Eye contact	: Causes serious eye irritation.		
Potential acute health	<u>n effects</u>		

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### Section 4. First aid measures

#### Over-exposure signs/symptoms

Eye contact :	Adverse symptoms may include the following: pain or irritation 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: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion :	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

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

Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	
Specific treatments	: No specific treatment.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	

See toxicological information (Section 11)

### **Section 5. Fire-fighting measures**

Extinguishing media	
Suitable extinguishing 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 nitrogen oxides sulfur oxides 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

<ul> <li>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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</li> </ul>
: 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".
: 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).
ntainment and cleaning up
: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with 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.

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## Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). 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
barium sulfate	ACGIH TLV (United States, 7/2023)
	TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Inhalable
	fraction.
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 15 mg/m <sup>3</sup> . Form: Total dust.
	TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Respirable
	fraction.
xylene	ACGIH TLV (United States, 7/2023) [p-
5	xylene and mixtures containing p-xylene]
	Ototoxicant.
	TWA 8 hours: 20 ppm.
	OSHA PEL (United States, 5/2018) [Xylenes]
	United States Page: 6/17

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### Section 8. Exposure controls/personal protection

n-butyl acetate N-butyl acetat		TWA 8 hours: 100 ppm.
ethylbenzene       STEL 15 miuttes: 150 ppm. TWA 8 hours: 50 ppm. OSHA PEL (United States, 5/2018) TWA 8 hours: 150 ppm. TWA 8 hours: 150 ppm. TWA 8 hours: 150 ppm. TWA 8 hours: 120 ppm. TWA 8 hours: 120 ppm. TWA 8 hours: 120 ppm. OSHA PEL (United States, 5/2018) TWA 8 hours: 20 ppm. OSHA PEL (United States, 5/2018) TWA 8 hours: 20 ppm. OSHA PEL (United States, 7/2023) TWA 8 hours: 210 ppm. TWA 8 hours: 20 ppm. TWA 8 hours: 200.1 (VISIO2+2) mg/m <sup>2</sup> . Form: Respirable fraction. OSHA PEL 23 (United States, 7/2023) STUEL 5 hours: 200 ppm. TWA 8 hours: 200 p		TWA 8 hours: 435 mg/m <sup>3</sup> .
ethylbenzene       STEL 15 minutes: 130 ppm. TWA 8 hours: 100 ppm. TWA 8 hours: 100 ppm. TWA 8 hours: 100 ppm. TWA 8 hours: 100 ppm.         Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023) Ototoxicant. TWA 8 hours: 100 ppm. WA 8 hours: 200 ppm. OSHA PEL United States, 7/2023) TWA 8 hours: 200 ppm. OSHA PEL United States, 7/2023) TWA 8 hours: 200 ppm. TWA 8 hours: 200 ppm. TWA 8 hours: 200 ppm. TWA 8 hours: 200 ppm. TWA 8 hours: 200 ppm. SHA PEL Z (United States, 7/2023) TWA 8 hours: 200 ppm. TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Respirable fraction, finescale particles. OSHA PEL Z (United States, 7/2023) TWA 8 hours: 10.7 mg/m <sup>3</sup> . Form: Total dust. ACGIH TLV (United States, 7/2023) [Silica, crystalline silica, respirable powder (<10 microns)	n-butyl acetate	ACGIH TLV (United States, 7/2023) [Butyl
ethylbenzene       TWA 8 hours: 150 ppm.         ethylbenzene       OSHA PEL (United States, 5/2018)         TWA 8 hours: 150 ppm.       TWA 8 hours: 170 mg/m <sup>3</sup> .         ACGIH TLV (United States, 7/2023)       Otoxicant.         Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023)         Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023)         TwA 8 hours: 20 ppm.       OSHA PEL 23 (United States, 7/2023)         TwA 8 hours: 2.5 mg/m <sup>3</sup> . Form: respirable fraction.       OSHA PEL 23 (United States, 7/2023)         TwA 8 hours: 150 ppm.       TWA 8 hours: 2.5 mg/m <sup>3</sup> . Form: respirable fraction. finescale particles.         crystalline silica, respirable powder (<10 microns)		acetates]
ethylbenzene       OSHA PEL (United States, 5/2018) TWA 8 hours: 150 ppm, TWA 8 hours: 20 ppm, Other States, 5/2018)         Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023)         Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023)         TWA 8 hours: 2 mg/m <sup>2</sup> , Form: Respirable fraction.       TWA 8 hours: 2 mg/m <sup>2</sup> .         Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023)         TWA 8 hours: 2 mg/m <sup>2</sup> .       Form: Respirable fraction.         OSHA PEL (2) (United States, 7/2023)       TWA 8 hours: 2 mg/m <sup>2</sup> .         titanium dioxide       ACGIH TLV (United States, 7/2023)         titanium dioxide       ACGIH TLV (United States, 7/2023)         travel = mg/m <sup>2</sup> .       Form: respirable fraction, finescale particles.         crystalline silica, respirable powder (<10 microns)       TWA 8 hours: 20.025 mg/m <sup>2</sup> . Form: Total dust.         ACGIH TLV (United States, 7/2023) [Silica, crystalline]       TWA 8 hours: 20.025 mg/m <sup>2</sup> . Form: Respirable.         bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate toluene       None.       OSHA PEL 22 (United States, 7/2023) Dotoxicant.         Work = Acceptable Maximum Peak ACGIH = American Conference of Governmental Industrial Hygienists.       S       Potential skin absorption SR = Respirable.         A       Acceptable Maximum Peak ACGIH = American Conference of Governmental Industrial Hygienists.       S       Potential ski		STEL 15 minutes: 150 ppm.
ethylbenzene       OSHA PEL (United States, 5/2018) TWA 8 hours: 150 ppm, TWA 8 hours: 20 ppm, Other States, 5/2018)         Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023)         Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023)         TWA 8 hours: 2 mg/m <sup>2</sup> , Form: Respirable fraction.       TWA 8 hours: 2 mg/m <sup>2</sup> .         Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023)         TWA 8 hours: 2 mg/m <sup>2</sup> .       Form: Respirable fraction.         OSHA PEL (2) (United States, 7/2023)       TWA 8 hours: 2 mg/m <sup>2</sup> .         titanium dioxide       ACGIH TLV (United States, 7/2023)         titanium dioxide       ACGIH TLV (United States, 7/2023)         travel = mg/m <sup>2</sup> .       Form: respirable fraction, finescale particles.         crystalline silica, respirable powder (<10 microns)       TWA 8 hours: 20.025 mg/m <sup>2</sup> . Form: Total dust.         ACGIH TLV (United States, 7/2023) [Silica, crystalline]       TWA 8 hours: 20.025 mg/m <sup>2</sup> . Form: Respirable.         bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate toluene       None.       OSHA PEL 22 (United States, 7/2023) Dotoxicant.         Work = Acceptable Maximum Peak ACGIH = American Conference of Governmental Industrial Hygienists.       S       Potential skin absorption SR = Respirable.         A       Acceptable Maximum Peak ACGIH = American Conference of Governmental Industrial Hygienists.       S       Potential ski		TWA 8 hours: 50 ppm.
ethylbenzene       TWA 8 hours: 7/10 mg/m <sup>3</sup> .         ACGIH TLV (United States, 7/2023)       Ototoxicant.         Twa 8 hours: 20 ppm.       OSHA PEL (United States, 5/2018)         Twa 8 hours: 20 ppm.       TWA 8 hours: 20 ppm.         OSHA PEL (United States, 7/2023)       TWA 8 hours: 20 ppm.         Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023)         Twa 8 hours: 2 mg/m <sup>3</sup> . Form: Respirable fraction.       OSHA PEL 23 (United States, 7/2023)         Twa 8 hours: 2 mg/m <sup>3</sup> . Form: respirable fraction.       OSHA PEL 23 (United States, 7/2023)         Twa 8 hours: 2.5 mg/m <sup>3</sup> . Form: respirable fraction.       OSHA PEL 23 (United States, 7/2023)         Twa 8 hours: 2.5 mg/m <sup>3</sup> . Form: Total dust.       ACGIH TLV (United States, 7/2023) [Gilica, crystalline]         twa 8 hours: 2.50. / (%Si(0 <sub>2</sub> +15) mpdrf. Form: Respirable fraction.       OSHA PEL 23 (United States, 7/2023) [Gilica, crystalline]         toluene       Key to abbreviations       S       Potential States, 7/2023) [Cotoxicant.         toluene       Key to abbreviations       S       Potential skin absorption         A       A caceptable Maximum Peak       S       Potential skin absorption         A       A caceptable Maximum Peak       S       Potential skin absorption         A       A caceptable Maximum Peak       S       Potential skin absorption       SR<		
ethylbenzene       ACGIH TLV (United States, 7/2023)         Ototoxicant.       TWW 8 hours: 20 ppm.         Talc , not containing asbestiform fibres       States, 7/2023)         Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023)         TWA 8 hours: 20 ppm.       OSHA PEL (United States, 7/2023)         TWA 8 hours: 20 gpm.*       ACGIH TLV (United States, 7/2023)         TWA 8 hours: 20 gpm.*       OSHA PEL (United States, 7/2023)         TWA 8 hours: 20 gpm.*       OSHA PEL (United States, 7/2023)         TWA 8 hours: 20 gpm.*       OSHA PEL (United States, 7/2023)         TWA 2 mg/m*.       ACGIH TLV (United States, 7/2023)         TWA 2 mg/m*.       ACGIH TLV (United States, 7/2023)         TWA 8 hours: 25.0 / (Winted States, 7/2023)       TWA 8 hours: 25.0 / (Winted States, 7/2023)         TWA 8 hours: 10.1 (Winted States, 7/2023)       TWA 8 hours: 10.1 (Winted States, 6/2016)         TWA 8 hours: 20.0 pm.       CGIH TLV (United States, 7/2023)         Ibis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate       None.         toluene       ACGIH TLV (United States, 7/2023)         VM 8 hours: 20.0 ppm.       CGIH TLV (United States, 7/2023)         Otoxicant.       TWA 8 hours: 20 ppm.         CEL: 300 ppm.       CEL: 300 ppm.         ACGIH TLV (United States, 7/2023)       Otoxicant. <th></th> <th>TWA 8 hours: 150 ppm.</th>		TWA 8 hours: 150 ppm.
Acceptable Maximum Peak       Substrate         Acceptable Maximum Peak		TWA 8 hours: 710 mg/m <sup>3</sup> .
Acceptable Maximum Peak       Substrate         Acceptable Maximum Peak	ethylbenzene	ACGIH TLV (United States, 7/2023)
Talc , not containing asbestiform fibres       TWA 8 hours: 100 ppm. OSHA PEL (United States, 5/2018) TWA 8 hours: 100 ppm. TWA 8 hours: 100 ppm. TWA 8 hours: 100 ppm. TWA 8 hours: 245 mg/m <sup>3</sup> .         titanium dioxide       ACGIH TLV (United States, 7/2023) TWA 8 hours: 2.5 mg/m <sup>3</sup> . Form: Respirable fraction. OSHA PEL Z3 (United States, 7/2023) TWA 8 hours: 2.5 mg/m <sup>3</sup> . Form: respirable fraction. finescale particles.         crystalline silica, respirable powder (<10 microns)       OSHA PEL (United States, 7/2023) TWA 8 hours: 2.5 mg/m <sup>3</sup> . Form: Total dust. ACGIH TLV (United States, 5/2018) TWA 8 hours: 15 mg/m <sup>3</sup> . Form: Total dust. ACGIH TLV (United States, 7/2023) [Silica, crystalline]         bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate toluene       TWA 8 hours: 10.7 (%SiO <sub>2</sub> +2) mg/m <sup>3</sup> . Form: Respirable. TWA 8 hours: 20.9 pm. OSHA PEL Z3 (United States, 7/2023) Otoxicant. TWA 8 hours: 20 ppm. OSHA PEL Z3 (United States, 7/2023) Otoxicant. TWA 8 hours: 20 ppm. OSHA PEL Z3 (United States, 7/2023) Otoxicant. TWA 8 hours: 20 ppm. OSHA PEL Z3 (United States, 7/2023) Otoxicant. TWA 8 hours: 20 ppm. OSHA PEL Z3 (United States, 7/2023) Otoxicant. TWA 8 hours: 20 ppm. OSHA PEL Z3 (United States, 7/2023) Otoxicant. TWA 8 hours: 20 ppm. OSHA PEL Z3 (United States, 7/2023) Otoxicant. TWA 8 hours: 500 ppm. CEIL: 300 ppm. AMP 10 minutes: 500 ppm.         A       = Acceptable Maximum Peak ACGIH = American Conference of Governmental Industrial Hygienists. C       S       = Potential skin absorption SR = Respiratoly         STEL       = Shot tems Exposure Limit OSHA = Occupational Safety and Heath Administration.       STEL       = Shot tems Exposure limit values TW = Threshol Limit Value		
AcGH TLV (United States, 5/2018)         Talc , not containing asbestiform fibres         Talc , not containing asbestiform fibres         ACGH TLV (United States, 7/2023)         TWA 8 hours: 2 mg/m <sup>3</sup> , Form: Respirable fraction.         OSHA PEL 23 (United States, 7/2023)         TWA 2 mg/m <sup>3</sup> .         titanium dioxide         ACGH TLV (United States, 7/2023)         TWA 2 mg/m <sup>3</sup> .         crystalline silica, respirable powder (<10 microns)         ACGH TLV (United States, 5/2018)         TWA 8 hours: 1.5 mg/m <sup>3</sup> . Form: Total dust.         ACGH TLV (United States, 5/2018)         TWA 8 hours: 0.025 mg/m <sup>3</sup> . Form: Total dust.         ACGH TLV (United States, 6/2016)         TWA 8 hours: 0.025 mg/m <sup>3</sup> . Form: Respirable fraction.         OSHA PEL 23 (United States, 6/2016)         TWA 8 hours: 0.025 mg/m <sup>3</sup> . Form: Respirable.         TWA 8 hours: 20.02 mg/m <sup>3</sup> . Form: Respirable.         TWA 8 hours: 20 pg/m <sup>3</sup> . Form: Respirable.         totuene         bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate         toluene         A         ACGH TLV (United States, 7/2023)         Ottoxicant.         TWA 8 hours: 20 pg/m.         Cell: 1.00 mg/m.         CH = Acceptable Maximum Peak         A       = Acceptable Maxi		
Talc , not containing asbestiform fibres       TWA 8 hours: 100 ppm. TWA 8 hours: 435 mg/m³.         ACGIH TLV (United States, 7/2023)       TWA 8 hours: 2 mg/m³. Form: Respirable fraction. OSHA PEL Z3 (United States, 7/2023)         titanium dioxide       ACGIH TLV (United States, 7/2023)         titanium dioxide       TWA 8 hours: 2.5 mg/m³. Form: respirable fraction. finescale particles.         crystalline silica, respirable powder (<10 microns)       ACGIH TLV (United States, 7/2023)         TWA 8 hours: 10.025 mg/m³. Form: Total dust.         ACGIH TLV (United States, 7/2023)       TWA 8 hours: 0.025 mg/m³. Form: Total dust.         ACGIH TLV (United States, 6/2016)       TWA 8 hours: 0.025 mg/m³. Form: Respirable fraction, finescale particles.         bis(1.2.2,6,6-pentamethyl-4-piperidyl) sebacate toluene       None:         bis(1.2.2,6,6-pentamethyl-4-piperidyl) sebacate toluene       None:         ACGIH TLV (United States, 7/2023) Ototoxicant. TWA 8 hours: 200 ppm.       None:         ACGIH TLV (United States, 7/2023) Ototoxicant. TWA 8 hours: 200 ppm.       None:         ACGIH TLV (United States, 7/2023) Ototoxicant.       None:         ACGIH TLV (United States, 7/2023) Ototoxicant.       None:         ACGIH TLV (United States, 7/2023) Ototoxicant.       None:         C       = Acceptable Maximum Peak ACGIH TLV (United States, 7/2023) TWA 8 hours: 200 ppm.         C       = Centing Limit       S		
Talc , not containing asbestiform fibres       TWA 8 hours: 435 mg/m³.         Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023)         TWA 8 hours: 2 mg/m³. Form: Respirable fraction.       OSHA PEL Z3 (United States)         TWA 8 hours: 2.5 mg/m³. Form: respirable fraction.       OSHA PEL Z3 (United States)         crystalline silica, respirable powder (<10 microns)       TWA 8 hours: 2.5 mg/m³. Form: respirable fraction.         crystalline silica, respirable powder (<10 microns)       OSHA PEL (United States, 7/2023) [Silica, crystalline]         bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate toluene       OSHA PEL Z3 (United States, 6/2016)         bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate toluene       None.         ACGIH TLV (United States, 7/2023)       TWA 8 hours: 20.1 (%SiO <sub>2</sub> +5) mpcf. Form: Respirable.         None.       ACGIH TLV (United States, 7/2023)         Cottoxicant.       TWA 8 hours: 20.1 (%SiO <sub>2</sub> +2) mg/m³. Form:         Cottoxicant.       TWA 8 hours: 20.0 ppm.         Cottoxicant.       TWA 8 hours: 20 ppm.         OSHA PEL Z2 (United States, 7/2023)       TWA 8 hours: 20 ppm.         Cottoxicant.       TWA 8 hours: 20 ppm.         Call = Annerican Conference of Governmental Industrial Hygienists.       S = Potential skin absorption         C       Celling Limit       S = Skin semilization         F       F		
Talc , not containing asbestiform fibres       ACGIH TLV (United States, 7/2023) TWA 8 hours: 2 mg/m <sup>3</sup> . Form: Respirable fraction.         titanium dioxide       ACGIH TLV (United States, 7/2023)         titanium dioxide       ACGIH TLV (United States, 7/2023)         crystalline silica, respirable powder (<10 microns)       ACGIH TLV (United States, 7/2023)         crystalline silica, respirable powder (<10 microns)       TWA 8 hours: 15 mg/m <sup>3</sup> . Form: respirable fraction, finescale particles.         bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate toluene       OSHA PEL 23 (United States, 6/2016) TWA 8 hours: 10. / (%SiO <sub>2</sub> +2) mg/m <sup>3</sup> . Form: Respirable.         bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate toluene       None.         ACGIH TLV (United States, 7/2023) Ototoxicant. TWA 8 hours: 20. / (%SiO <sub>2</sub> +2) mg/m <sup>3</sup> . Form: Respirable.       None.         ACGIH TLV (United States, 7/2023) Ototoxicant. TWA 8 hours: 20 ppm.       None.         ACGIH TLV (United States, 7/2023) Ototoxicant. TWA 8 hours: 20 ppm.       None.         ACGIH TLV (United States, 7/2023) Ototoxicant. TWA 8 hours: 20 ppm.       None.         ACGIH = American Conference of Governmental Industrial Hygienists.       S = Potential skin absorption STEL = Short tem Exposure limit values TPL = Internal Permissible Exposure Limit OSHA = Occupational Safety and Health Administration. R = Respirable       S = Respirable         R = Respirable       True Weighted Average       S = Threshold Limit Value		
titanium dioxide       TWA 8 hours: 2 mg/m³. Form: Respirable fraction.         titanium dioxide       OSHA PEL Z3 (United States, 7/2023)         try at 2 mg/m³.       TWA 8 hours: 2.5 mg/m³. Form: respirable fraction, finescale particles.         crystalline silica, respirable powder (<10 microns)       OSHA PEL United States, 7/2023) [Silica, crystalline]         try at 3 hours: 15 mg/m³. Form: Total dust.       ACGIH TLV (United States, 7/2023) [Silica, crystalline]         try at 3 hours: 0.025 mg/m³. Form: Respirable fraction.       OSHA PEL Z3 (United States, 6/2016)         TWA 8 hours: 0.025 mg/m³. Form: Respirable fraction.       OSHA PEL Z3 (United States, 6/2016)         TWA 8 hours: 250. / (%SiO2+5) mppcf. Form: Respirable.       TWA 8 hours: 10. / (%SiO2+5) mppcf. Form: Respirable.         toluene       TWA 8 hours: 20 pm.       OSHA PEL Z3 (United States, 7/2023)         bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate       None.       ACGIH TLV (United States, 7/2023)         toluene       None.       ACGIH TLV (United States, 7/2023)       Ototoxicant.         TWA 8 hours: 20 ppm.       OSHA PEL Z2 (United States, 2/2013)       TWA 8 hours: 20 ppm.         C       = Acceptable Maximum Peak       S       = Potential skin absorption         ACGIH = American Conference of Governmental Industrial Hygienists.       S       = Potential skin absorption         C       = Celling Limit       S	Talc_not containing asbestiform fibres	Ū Ū
titanium dioxide       fraction.       OSHA PEL Z3 (United States)         titanium dioxide       TWA : 2 mg/m <sup>3</sup> .       ACGIH TLV (United States, 7/2023)         crystalline silica, respirable powder (<10 microns)       TWA 8 hours: 2.5 mg/m <sup>3</sup> . Form: respirable fraction, finescale particles.         oSHA PEL (United States, 5/2018)       TWA 8 hours: 10.1 mg/m <sup>3</sup> . Form: Total dust.         ACGIH TLV (United States, 7/2023) [Silica, crystalline]       TWA 8 hours: 0.025 mg/m <sup>3</sup> . Form: Respirable fraction.         bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate toluene       OSHA PEL Z3 (United States, 6/2016)         toluene       WA 8 hours: 20.1 (%SiO <sub>2</sub> +2) mg/m <sup>3</sup> . Form: Respirable.         TWA 8 hours: 20.1 (%SiO <sub>2</sub> +2) mg/m <sup>3</sup> . Form: Respirable.       TWA 8 hours: 20.1 (%SiO <sub>2</sub> +2) mg/m <sup>3</sup> . Form: Respirable.         toluene       Key to abbreviations       ACGIH TLV (United States, 7/2023)         Obtoxicant.       TWA 8 hours: 20 ppm.       OSHA PEL Z3 (United States, 2/2013)         TWA 8 hours: 20 ppm.       OSHA PEL Z2 (United States, 2/2013)       TWA 8 hours: 20 ppm.         C = Celling Limit       S       = Potential skin absorption       SK = Respiratory sensitization         F = Respirable Exposure Limit       SK = Respiratory sensitization       SK = Respiratory sensitization         R = Respirational Safety and Health Administration.       TWA = Time Weighted Average       TWA = Time Weighted Average		•
titanium dioxide       OSHA PEL Z3 (United States)         titanium dioxide       TWA 2 mg/m <sup>3</sup> .         ACGIH TLV (United States, 7/2023)       TWA 8 hours: 2.5 mg/m <sup>3</sup> . Form: respirable fraction, finescale particles.         crystalline silica, respirable powder (<10 microns)       TWA 8 hours: 15 mg/m <sup>3</sup> . Form: Total dust.         ACGIH TLV (United States, 7/2023) [Silica, crystalline]       TWA 8 hours: 0.025 mg/m <sup>3</sup> . Form: Total dust.         ACGIH TLV (United States, 7/2023) [Silica, crystalline]       TWA 8 hours: 0.025 mg/m <sup>3</sup> . Form: Respirable fraction.         bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate       OSHA PEL Z3 (United States, 7/2023) [Silica, crystalline]         bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate       None.         toluene       ACGIH TLV (United States, 7/2023)         VM 8 hours: 20. / (%SiO <sub>2</sub> +2) mg/m <sup>3</sup> . Form: Respirable.       TWA 8 hours: 20. / (%SiO <sub>2</sub> +2) mg/m <sup>3</sup> . Form: Respirable.         TWA 8 hours: 20. / (%SiO <sub>2</sub> +2) mg/m <sup>3</sup> . Form: Respirable.       TWA 8 hours: 20. pg/m <sup>3</sup> . Form: Respirable.         TWA 8 hours: 20. / (%SiO <sub>2</sub> +2) mg/m <sup>3</sup> . Form: Respirable.       TWA 8 hours: 20. pg/m <sup>3</sup> . Form: Respirable.         toluene       None.       None.         ACGIH TLV (United States, 7/2023)       Ototoxicant.         TWA 8 hours: 200 ppm.       CEL: 300 ppm.         C       = Celling Limit       S       = Potential skin absorption         ACGIH = American Conf		
titanium dioxide titanium dioxide titanium dioxide titanium dioxide trystalline silica, respirable powder (<10 microns) trystalline silica, respirable states, form: Respirable fraction. <b>OSHA PEL Z3 (United States, 6/2016)</b> TWA 8 hours: 0.025 mg/m³. Form: Respirable. TWA 8 hours: 10. / (%SiO <sub>2</sub> +2) mg/m³. Form: Respirable. None. <b>ACGIH TLV (United States, 7/2023)</b> Ototoxicant, TWA 8 hours: 20 ppm. <b>OSHA PEL Z3 (United States, 7/2023)</b> Ototoxicant, TWA 8 hours: 20 ppm. <b>OSHA PEL Z3 (United States, 7/2023)</b> Ototoxicant, TWA 8 hours: 20 ppm. <b>OSHA PEL Z3 (United States, 7/2023)</b> Ototoxicant, TWA 8 hours: 20 ppm. <b>OSHA PEL Z3 (United States, 7/2023)</b> Ototoxicant, TWA 8 hours: 20 ppm. <b>OSHA PEL Z3 (United States, 7/2023)</b> <b>Ototoxicant</b> , TWA 8 hours: 20 ppm. <b>OSHA PEL Z3 (United States, 7/2023)</b> <b>Ototoxicant</b> , TWA 8 hours: 500 ppm. <b>OSHA PEL Z3 (United States, 7/2023)</b> <b>Ototoxicant</b> , TWA 8 hours: 500 ppm. <b>Ototoxicant</b> , <b>TWA 8 hours: 500 ppm.</b> <b>OSHA PEL Z3 (United States, 7/2023)</b> <b>Ototoxicant</b> , <b>TWA 8 hours: 500 ppm.</b> <b>OSHA PEL Z3 (United States, 7/2023)</b> <b>Ototoxicant</b> , <b>TWA 8 hours: 500 ppm.</b> <b>OSHA PEL Z3 (United States, 7/2023)</b> <b>Ototoxicant</b> , <b>TWA 8 hours: 500 ppm.</b> <b>Ototoxicant</b> , <b>TWA 8 hours: 500 ppm.</b> <b>OSHA PEL Z3 (United States, 7/2023)</b> <b>Ototoxicant</b> , <b>TWA 8 hours: 500 ppm.</b> <b>OSHA PEL Z3 (United States, 7/2023)</b> <b>Ototoxicant</b> , <b>TWA 8 hours: 500 ppm.</b> <b>Ototoxicant</b> , <b>TWA 8 hours: 500 ppm.</b> <b>OSHA PEL Z3 (United States, 7/2023)</b> <b>Ototoxicant</b> , <b>TWA 8 hours: 500 ppm.</b> <b>Ototoxicant</b> , <b>T</b>		
titanium dioxide titanium dioxide ACGIH TLV (United States, 7/2023) TWA 8 hours: 2.5 mg/m³, Form: respirable fraction, finescale particles. OSHA PEL (United States, 5/2018) TWA 8 hours: 15 mg/m³, Form: Total dust. ACGIH TLV (United States, 7/2023) [Silica, crystalline] TWA 8 hours: 15 mg/m³, Form: Total dust. ACGIH TLV (United States, 7/2023) [Silica, crystalline] TWA 8 hours: 0.025 mg/m³, Form: Respirable fraction. OSHA PEL Z3 (United States, 6/2016) TWA 8 hours: 250. / (%SiO <sub>2</sub> +5) mppcf. Form: Respirable. TWA 8 hours: 10. / (%SiO <sub>2</sub> +2) mg/m³. Form: Respirable. TWA 8 hours: 20.025 mg/m³. Form: Respirable. TWA 8 hours: 20 ppm. OSHA PEL Z2 (United States, 7/2023) Ototoxicant. TWA 8 hours: 20 ppm. CEIL: 300 ppm. CEIL:		
rystalline silica, respirable powder (<10 microns)       TWA 8 hours: 2.5 mg/m <sup>3</sup> . Form: respirable fraction, finescale particles.         OSHA PEL (United States, 5/2018)       TWA 8 hours: 15 mg/m <sup>3</sup> . Form: Total dust.         ACGIH TLV (United States, 7/2023) [Silica, crystalline]       TWA 8 hours: 0.025 mg/m <sup>3</sup> . Form: Respirable fraction.         OSHA PEL 23 (United States, 6/2016)       TWA 8 hours: 20.0 (%SiO <sub>2</sub> +5) mppcf. Form: Respirable.         bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate toluene       None.         bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate       None.         toluene       ACGIH TLV (United States, 7/2023)         Ottoxicant.       TWA 8 hours: 20.0 (%SiO <sub>2</sub> +2) mg/m <sup>3</sup> . Form: Respirable.         None.       ACGIH TLV (United States, 7/2023)         Ottoxicant.       TWA 8 hours: 20 ppm.         OSHA PEL Z2 (United States, 2/2013)       TWA 8 hours: 200 ppm.         C = Celling Limit       S = Potential skin absorption         A = Acceptable Maximum Peak       S = Potential skin absorption         C = Celling Limit       S = Potential skin absorption         F = Fume       STEL       Stell = Short tem Exposure limit values         IPEL = Internal Permissible Exposure Limit       TD = Total dust         OSHA = Occupational Safety and Health Administration.       TWA = Timewedighted Average	titanium diavide	0
crystalline silica, respirable powder (<10 microns)       fraction, finescale particles.         crystalline silica, respirable powder (<10 microns)       TWA 8 hours: 15 mg/m³. Form: Total dust.         ACGIH TLV (United States, 7/2023) [Silica, crystalline]       TWA 8 hours: 0.025 mg/m³. Form:         TWA 8 hours: 0.025 mg/m³. Form:       Respirable fraction.         OSHA PEL Z3 (United States, 6/2016)       TWA 8 hours: 250. / (%SiO <sub>2</sub> +5) mppcf. Form:         Respirable.       TWA 8 hours: 10. / (%SiO <sub>2</sub> +2) mg/m³. Form:         Respirable.       TWA 8 hours: 20. / (%SiO <sub>2</sub> +2) mg/m³. Form:         Respirable.       None.         ACGIH TLV (United States, 7/2023)       Ototoxicant.         TWA 8 hours: 20 ppm.       OSHA PEL Z2 (United States, 7/2023)         Ototoxicant.       TWA 8 hours: 20 ppm.         Coloxicant.       TWA 8 hours: 200 ppm.         CEIL: 300 ppm.       AMP 10 minutes: 500 ppm.         ACGIH = American Conference of Governmental Industrial Hygienists.       S = Potential skin absorption         C = Ceiling Limit       SK = Respiratory sensitization         F = Fume       Stel = Short tem Exposure limit values         IPEL = Internal Permissible Exposure Limit       TD = Total dust         OSHA = Occupational Safety and Health Administration.       TVA = Time Weighted Average		
crystalline silica, respirable powder (<10 microns)       OSHA PEL (United States, 5/2018) TWA 8 hours: 15 mg/m³, Form: Total dust. ACGIH TLV (United States, 7/2023) [Silica, crystalline] TWA 8 hours: 0.025 mg/m³. Form: Respirable fraction. OSHA PEL Z3 (United States, 6/2016) TWA 8 hours: 250. / (%SiO <sub>2</sub> +5) mppcf. Form: Respirable. TWA 8 hours: 10. / (%SiO <sub>2</sub> +2) mg/m³. Form: Respirable. None. ACGIH TLV (United States, 7/2023) Ototoxicant. TWA 8 hours: 20 ppm. OSHA PEL Z2 (United States, 7/2023) Ototoxicant. TWA 8 hours: 20 ppm. OSHA PEL Z2 (United States, 7/2023) Ototoxicant. TWA 8 hours: 20 ppm. OSHA PEL Z2 (United States, 7/2023) Ototoxicant. TWA 8 hours: 20 ppm. OSHA PEL Z2 (United States, 7/2023) Ototoxicant. TWA 8 hours: 200 ppm. CEIL: 300 ppm. AMP 10 minutes: 500 ppm.         A       = Acceptable Maximum Peak ACGIH       \$ = Potential skin absorption SS = Skin sensitization SS = Skin sen		
crystalline silica, respirable powder (<10 microns)       TWA 8 hours: 15 mg/m³. Form: Total dust.         ACGIH TLV (United States, 7/2023) [Silica, crystalline]       TWA 8 hours: 0.025 mg/m³. Form:         Respirable fraction.       OSHA PEL Z3 (United States, 6/2016)         TWA 8 hours: 20. / (%SiO2+5) mppcf. Form:       Respirable fraction.         OSHA PEL Z3 (United States, 7/2023)       Form:         bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate       TWA 8 hours: 20. / (%SiO2+2) mg/m³. Form:         toluene       Respirable.         None.       ACGIH TLV (United States, 7/2023)         Ototoxicant.       TWA 8 hours: 20 ppm.         OSHA PEL Z2 (United States, 2/2013)       TWA 8 hours: 20 ppm.         OSHA PEL Z2 (United States, 2/2013)       TWA 8 hours: 200 ppm.         CEIL: 300 ppm.       AMP 10 minutes: 500 ppm.         CEIL: 300 ppm.       SS = Potential skin absorption         ACGIH = American Conference of Governmental Industrial Hygienists.       SR = Respiratory sensitization         C = Ceiling Limit       SS = Skin sensitization         F = Fume       SEL = Short term Exposure limit values         IPEL = Internal Permissible Exposure Limit       TD = Total dust         OSHA = Occupational Safety and Health Administration.       TW = Threshold Limit Value         R = Respiratee       TWA = Time Weighted Average </th <th></th> <th></th>		
crystalline silica, respirable powder (<10 microns)		
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         ACGIH       = American Conference of Governmental Industrial Hygienists.       SR       = Respiratory sensitization         F       = Fume       STEL       = Short term Exposure limit values       TUV       = Total dust         IPEL       = Internal Permissible Exposure Limit       TD       = Total dust       TUV       = Timeshold Limit Value         R       = Respiratole       TWA       = Time Weighted Average       = Time Weighted Average	crystalling silica, respirable powder (<10 microps)	-
TWA 8 hours: 0.025 mg/m³. Form:         Respirable fraction.         OSHA PEL Z3 (United States, 6/2016)         TWA 8 hours: 250. / (%SiO2+5) mppcf. Form:         Respirable.         TWA 8 hours: 10. / (%SiO2+2) mg/m³. Form:         Respirable.         toluene         bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate         toluene         VOTOXicant.         TWA 8 hours: 20 pm.         OSHA PEL Z2 (United States, 7/2023)         Ototoxicant.         TWA 8 hours: 20 ppm.         OSHA PEL Z2 (United States, 2/2013)         TWA 8 hours: 200 ppm.         CEIL: 300 ppm.         ACGIH       A merican Conference of Governmental Industrial Hygienists.         C       S       = Potential skin absorption         S       S selin sensitization         F       = Fume       STEL       = Short term Exposure limit values         IPEL       Internal Permissible Exposure Limit       TD       = Total dust         OSHA       Stell       = Short term Exposure limit values         R       = Respirable       TWA 8 thours: 200 pm.	crystalline slitea, respirable powder (< to thicrons)	
Respirable fraction.       OSHA PEL Z3 (United States, 6/2016)         TWA 8 hours: 250. / (%SiO2+5) mppcf. Form:       Respirable.         TWA 8 hours: 10. / (%SiO2+2) mg/m³. Form:       Respirable.         toluene       TWA 8 hours: 10. / (%SiO2+2) mg/m³. Form:         bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate       None.         toluene       ACGIH TLV (United States, 7/2023)         Ototoxicant.       TWA 8 hours: 20 ppm.         OSHA PEL Z2 (United States, 2/2013)       TWA 8 hours: 200 ppm.         OSHA PEL Z2 (United States, 2/2013)       TWA 8 hours: 200 ppm.         CEIL: 300 ppm.       AMP 10 minutes: 500 ppm.         CEIL: 300 ppm.       AMP 10 minutes: 500 ppm.         C = Ceiling Limit       S = Potential skin absorption         F = Fume       SR = Respiratory sensitization         IPEL = Internal Permissible Exposure Limit       TD = Total dust         OSHA = Occupational Safety and Health Administration.       TLV = Threshol Limit Value         R = Respirable       TWA = Time Weighted Average		
OSHA PEL Z3 (United States, 6/2016)         TWA 8 hours: 250. / (%SiO2+5) mppcf. Form:         Respirable.         TWA 8 hours: 10. / (%SiO2+2) mg/m³. Form:         Respirable.         toluene         bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate         toluene         bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate         toluene         VMA 8 hours: 10. / (%SiO2+2) mg/m³. Form:         Respirable.         None.         ACGIH TLV (United States, 7/2023)         Ototoxicant.         TWA 8 hours: 20 ppm.         OSHA PEL Z2 (United States, 2/2013)         TWA 8 hours: 200 ppm.         CEIL: 300 ppm.         AMP 10 minutes: 500 ppm.         CEIL: 300 ppm.         ACGIH = American Conference of Governmental Industrial Hygienists.         C       Ceiling Limit         F       Fume         IPEL = Internal Permissible Exposure Limit       SS         IPEL = Internal Permissible Exposure Limit       TD         OSHA       Occupational Safety and Health Administration.         R       Respirable         R       Respirable         R       Respirable		
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate       TWA 8 hours: 250. / (%SiO <sub>2</sub> +5) mppdf. Form:         bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate       TWA 8 hours: 10. / (%SiO <sub>2</sub> +2) mg/m³. Form:         cluene       Respirable.         None.       ACGIH TLV (United States, 7/2023)         Ototoxicant.       TWA 8 hours: 20 ppm.         OSHA PEL Z2 (United States, 2/2013)       TWA 8 hours: 200 ppm.         CEIL: 300 ppm.       AMP 10 minutes: 500 ppm.         CEIL: 300 ppm.       S         ACGIH = American Conference of Governmental Industrial Hygienists.       S         C       Ceiling Limit         F       Fume         IPEL = Internal Permissible Exposure Limit       STEL         OSHA       Stell         OSHA       Stell         OSHA       Occupational Safety and Health Administration.         R       Respirable         TWA = Time Weighted Average		
kis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate       TWA 8 hours: 10. / (%SiO <sub>2</sub> +2) mg/m³. Form:         kespirable.       None.         ACGIH TLV (United States, 7/2023)       Ototoxicant.         TWA 8 hours: 20 ppm.       OSHA PEL Z2 (United States, 2/2013)         TWA 8 hours: 200 ppm.       CEIL: 300 ppm.         A = Acceptable Maximum Peak       S = Potential skin absorption         C = Ceiling Limit       SR = Respiratory sensitization         F = Fume       SR = Respiratory sensitization         IPEL = Internal Permissible Exposure Limit       STEL = Short term Exposure limit values         TD = Total dust       TD = Total dust         R = Respirable       TWA = Time Weighted Average		
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate       TWA 8 hours: 10. / (%SiO2+2) mg/m³. Form:         toluene       ACGIH TLV (United States, 7/2023)         Ototoxicant.       TWA 8 hours: 20 ppm.         OSHA PEL Z2 (United States, 2/2013)       TWA 8 hours: 200 ppm.         CEIL: 300 ppm.       AMP 10 minutes: 500 ppm.         CEIL: 300 ppm.       AMP 10 minutes: 500 ppm.         CEIL: 300 ppm.       S         R       = Acceptable Maximum Peak         R       S         F       = Fume         IPEL       Internal Permissible Exposure Limit         SHA       Occupational Safety and Health Administration.         R       = Respirable		
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate       Respirable.         toluene       ACGIH TLV (United States, 7/2023)         Ototoxicant.       TWA 8 hours: 20 ppm.         OSHA PEL Z2 (United States, 2/2013)       TWA 8 hours: 200 ppm.         CEIL: 300 ppm.       AMP 10 minutes: 500 ppm.         CEIL: 300 ppm.       AMP 10 minutes: 500 ppm.         CEIL: 300 ppm.       S = Potential skin absorption         S       S = Potential skin absorption         C       C e Ceiling Limit         F       Fume         IPEL       Internal Permissible Exposure Limit         OSHA       Occupational Safety and Health Administration.         R       = Respirable		
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate toluene ACGIH TLV (United States, 7/2023) Ototoxicant. TWA 8 hours: 20 ppm. OSHA PEL Z2 (United States, 2/2013) TWA 8 hours: 200 ppm. CEIL: 300 ppm. AMP 10 minutes: 500 ppm. AMP 10 minutes: 500 ppm. AMP 10 minutes: 500 ppm. S = Potential skin absorption S = Potential skin absorption S = Potential skin absorption S = Skin sensitization S = Skin sensitization F = Fume IPEL = Internal Permissible Exposure Limit OSHA = Occupational Safety and Health Administration. R = Respirable TWA = Time Weighted Average		
toluene       ACGIH TLV (United States, 7/2023)         Ototoxicant.       TWA 8 hours: 20 ppm.         OSHA PEL Z2 (United States, 2/2013)       TWA 8 hours: 200 ppm.         CEIL: 300 ppm.       AMP 10 minutes: 500 ppm.         CEIL: 300 ppm.       AMP 10 minutes: 500 ppm.         ACGIH = American Conference of Governmental Industrial Hygienists.       S = Potential skin absorption         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	big/1 2 2 6 6 pontempthyl 4 piperidyl) aphaesta	•
Ototoxicant.       TWA 8 hours: 20 ppm.         OSHA PEL Z2 (United States, 2/2013)         TWA 8 hours: 200 ppm.         CEIL: 300 ppm.         AMP 10 minutes: 500 ppm.         CEIL: 300 ppm.         AMP 10 minutes: 500 ppm.         CEIL: 300 ppm.         S         Potential skin absorption         S         C         C         C         C         C         C         C         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S <th></th> <th></th>		
TWA 8 hours: 20 ppm.         OSHA PEL Z2 (United States, 2/2013)         TWA 8 hours: 200 ppm.         CEIL: 300 ppm.         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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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		
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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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R = Respirable TWA = Time Weighted Average	•	TD = Total dust
Z = 0.5HA 29 CER 1910 1200 Subpart Z - Loxic and Hazardous Substances	<ul> <li>R = Respirable</li> <li>Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances</li> </ul>	I VVA = I IME VV eighted Average

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Product name SIGMADUR 550 BASE BLUE 1199

### Section 8. Exposure controls/personal protection

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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Chemical splash goggles.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
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.

**United States** 

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Product name SIGMADUR 550 BASE BLUE 1199

### Section 9. Physical and chemical properties

#### **Appearance**

Physical state	1	Liquid.	
Color	1	Not available.	
Odor	:	Aromatic.	
Odor threshold	:	Not available.	
рН	1	Not applicable.	
Melting point	1	Not available.	
Boiling point	4	>37.78°C (>100°F)	
Flash point	1	Closed cup: 33°C (91.4°F)	
Auto-ignition temperature	:	Not available.	
Decomposition temperature	:	Not available.	
Flammability	1	Not available.	
Lower and upper explosive (flammable) limits	:	Not available.	
Evaporation rate	1	Not available.	
Vapor pressure	1	Not available.	
Vapor density	1	Not available.	
Relative density	:	1.29	
Density(lbs / gal)	1	10.77	
<b>-</b> • • • • • •		Media	Result
Solubility(ies)	÷	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Viscosity	:	Dynamic (room temperatur Kinematic (room temperatur Kinematic (40°C (104°F)): >	re): >400 mm²/s (>400 cSt)
% Solid. (w/w)	:	64.648	

### 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.

Product name SIGMADUR 550 BASE BLUE 1199

### Section 10. Stability and reactivity

Hazardous decomposition<br/>products: Depending on conditions, decomposition products may include the following materials:<br/>carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides

### Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
barium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
n-butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
-	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 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	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
bis(1,2,2,6,6-pentamethyl-	LD50 Oral	Rat	3.125 g/kg	-
4-piperidyl) sebacate				
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary					
Skin	: There are no data availa	ble on the mixt	ure itself.		
Eyes	: There are no data availa	ble on the mixt	ure itself.		
Respiratory	: There are no data availa	ble on the mixt	ure itself.		
Sensitization					
Conclusion/Summary					
Skin	: There are no data availa	ble on the mixt	ure itself.		
Respiratory	: There are no data availa	ble on the mixt	ure itself.		
Mutagenicity					

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

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

Carcinogenicity

#### Product name SIGMADUR 550 BASE BLUE 1199

### Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP
kylene ethylbenzene titanium dioxide crystalline silica, respirable powder (<10 microns) toluene	- - + -	3 2B 2B 1 3	- - - Known to be a human carcinogen. -

Carcinogen Classification code:

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

#### **Reproductive toxicity**

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

#### **Teratogenicity**

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

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

Name		Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
n-butyl acetate	Category 3	-	Narcotic effects
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
toluene	Category 3	-	Narcotic effects

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

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

Target organs

: Contains material which causes damage to the following organs: brain.

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

#### Aspiration hazard

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

#### Information on the likely routes of exposure

#### Potential acute health effects

Eye contact

: Causes serious eye irritation.

United States Pag
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Product name SIGMADUR 550 BASE BLUE 1199

### Section 11. Toxicological information

Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs	/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation 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: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

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

**Conclusion/Summary** : There are no data available on the mixture itself. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). 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

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Product name SIGMADUR 550 BASE BLUE 1199

### Section 11. Toxicological information

	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	ects
General	: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
GMADUR 550 BASE BLUE 1199 barium sulfate xylene n-butyl acetate ethylbenzene bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate toluene	14738.3 N/A 4300 10768 3500 3125 5580	4026.8 2500 1700 N/A 17800 N/A 8390	N/A N/A N/A N/A N/A N/A	28.3 N/A 11 N/A 17.8 N/A 49	3.6 N/A 1.5 N/A 1.5 N/A N/A

### Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
<b>p</b> -butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours

#### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
-butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-

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Product name SIGMADUR 550 BASE BLUE 1199

### Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
kylene	-	-	Readily
n-butyl acetate	-	-	Readily
ethylbenzene	-	-	Readily
toluene	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> ylene	3.12	7.4 to 18.5	Low
n-butyl acetate	2.3	-	Low
ethylbenzene	3.6	79.43	Low
toluene	2.73	8.32	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 SIGMADUR 550 BASE BLUE 1199

### 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	Ш
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	417.89	Not applicable.	Not applicable.
RQ substances	(xylene, ethylbenzene)	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	: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.

IATA : None identified.

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

Transport in bulk according : Not applicable. to IMO instruments

### Section 15. Regulatory information

#### United States

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

#### SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

#### SARA 311/312

Classification	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	CARCINOGENICITY - Category 1A
	TOXIC TO REPRODUCTION - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3

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Product name SIGMADUR 550 BASE BLUE 1199

### Section 15. Regulatory information

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 HNOC - Defatting irritant

#### Composition/information on ingredients

Name	%	Classification
xylene	≥20 - ≤33	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
n-butyl acetate	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 1 FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant
ethylbenzene	≥1.0 - ≤5.0	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
Talc , not containing asbestiform fibres	≥1.0 - ≤5.0	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
titanium dioxide	≥1.0 - ≤5.0	CARCINOGENICITY - Category 2
crystalline silica, respirable powder (<10 microns)	<1.0	CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	<1.0	SKIN SENSITIZATION - Category 1B TOXIC TO REPRODUCTION - Category 2
toluene	<1.0	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant

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

	Chemical name	<u>CAS number</u>	<b>Concentration</b>
Supplier notification	: xylene	1330-20-7	10 - 30
	ethylbenzene	100-41-4	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.

Product name SIGMADUR 550 BASE BLUE 1199

### Section 15. Regulatory information

#### California Prop. 65

**MARNING**: Cancer and Reproductive Harm - 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	:	9/30/2024
Organization that prepared the SDS	1	EHS
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

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

#### **Disclaimer**

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