SAFETY DATA SHEET



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

Date of issue/Date of revision3 September 2023Version 7

Section 1. Identification		
Product name	: SIGMADUR ONE RED 6188	
Product code	: 00370903	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	f the substance or mixture and uses advised against	
Product use	: Professional applications, Used by spraying.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Not applicable.	
Supplier	 PPG Architectural Coatings Canada, Inc. 1550, rue Ampère, bureau 500 Boucherville (Québec) J4B 7L4 Canada +1 450-655-3121 	
	PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272	
<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. Hazard identification

Classification of the substance or mixture	■ FLAMMABLE LIQUIDS - Category 3 RESPIRATORY SENSITIZATION - Category 1A CARCINOGENICITY - Category 1 TOXIC TO REPRODUCTION - Category 1
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 Health Hazards Not Otherwise Classified - Category 1 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

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Section 2. Hazard identification

protective equipment and/or engineering controls (see Section 8).
: Danger
 Fammable liquid and vapor. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS)) Prolonged or repeated contact may dry skin and cause irritation.
: Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
: Store locked up.
 Dispose of contents and container in accordance with all local, regional, national and international regulations.
 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. DANGER - RAGS, STEEL WOOL OR WASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER EACH USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL CONTAINER. Fercentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 37.1% (oral), 58.6% (dermal), 82.7% (inhalation)

Section 3. Composition/information on ingredients

Substance/mixture	1	Mixture
Product name	1	SIGMADUR ONE RED 6188
Other means of identification	:	Not available.

CAS number/other identifiers

Product name SIGMADUR ONE RED 6188

Section 3. Composition/information on ingredients

Ingredient name	Synonyms	% (w/w)	CAS number
Solvent naphtha (petroleum), medium aliph.	Straight run kerosine; Solvent naphtha, petroleum, medium aliphatic; Medium aliphatic solvent naphta, petroleum; Solvent naphtha medium aliphatic; Solvent naphtha, medium aliphatic; Solvent; Solvent naphtha (petroleum), medium aliphatic; MEDIUM ALIPHATIC SOLVENT NAPHTHA (PETROLEUM); Straight run white spirit; White spirit type 0, regular flash point; Medium aliphatic solvent naphtha (petroleum) C9-C12	10 - 30*	64742-88-7
tert-butyl acetate	Acetic acid, 1,1-dimethylethyl ester; tert- Butyl-acetate; tert-Butyl ester of acetic acid; Acetic acid, tert-butyl ester; 1,1-Dimethylethyl ester acetic acid; T- BUTYL ACETATE; tertiary butyl acetate; tBAc; acetic acid, 1,1–dimethylethyl ester; Tertiairy butyl acetate; Butyl acetate	7 - 13*	540-88-5
barium sulfate	Sulfuric acid, barium salt (1:1); CI 77120; Barytes; Barium salt of sulfuric acid; Barite; Artificial barite; barium sulphate; C. I. Pigment White 21; barium sulfate, natural; blanc fixe; C.I. 77120	5 - 10*	7727-43-7
Talc , not containing asbestiform fibres	Talc; magnesium silicate monohydrate (talc) not containing asbestiform fibres	1 - 5*	14807-96-6
2-ethylhexanoic acid, zirconium salt	Hexanoic acid, 2-ethyl-, zirconium salt (1:?); Hexanoic acid, 2-ethyl-, zirconium salt; Zirconium 2-ethylhexanoate; Zirconium salt of 2-ethylhexanoic acid; Aliphatic monocarboxylic acid (C6-28) salt (Pb, Cu, Mn, Zn, Zr, Ce, Cd, Sn, Sr, Co); 2-Ethylhexanoic acid zirconium salt; HEXANOATE, 2-ETHYL-, ZIRCONIUM; ZIRCONIUM OCTOATE; Zirconium 2-ethylhexanoate (component unspecified)	0.1 - 1*	22464-99-9
Fatty acids, C9-13-neo-, cobalt salts	Mixed C9-13-neoalkanoic acids, cobalt salts; C9-13-Neoalkanoic acids, cobalt(2+) salts; Fatty acids, (C=9-13)-neo-, cobalts salts	0.1 - 1*	68955-83-9
neodecanoic acid, cobalt salt	Neodecanoic acid, cobalt salt (1:?); Cobalt neodecanoate; Cobalt neodeconoate; Cobalt(II) 7,7-dimethyloctanoate; Aliphatic monocarboxylic acid (C6-28) salt (Pb, Cu, Mn, Zn, Zr, Ce, Cd, Sn, Sr, Co); Neodecanoic acid cobalt salt;	0.1 - 1*	27253-31-2
	NEODECANOATE, COBALT		

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Section 3. Composition/information on ingredients

		.5	
	ethyl methyl ketone oxime; 2-Butanone, oxime; METHYL ETHYL KETOXIME; METHYL ETHYL KETONE OXIME; ethyl methyl ketoxime; ethyl methyl ketone oxime; MEKO; syn-O,O'-di(butan-2-one oxime)diethoxysilane; Methyl alkyl (C2-4) ketoxime; Butan-2-one oxime		
ethylbenzene	Benzene, ethyl-; Phenylethane; Ethylbenzol; photosensitive emulsion consisting of cyclized polyisoprene containing: — 55 % or more but not more than 75 % by weight of xylene (CAS RN 1330-20-7) and — 12 % or more but not more than 18 % by weight of ethylbenzene (CAS RN 100-41-4); EB; Mono-(or di-) methyl (ethyl,bromoallyl, bromopropyloxycarbonyl orchloropropyloxycarbonyl) benzene	0.1 - 1*	100-41-4
titanium dioxide	Titanium oxide; Titanium oxide (TiO2); CI 77891; Titanium peroxide; Rutile; C.I. Pigment White 6; titanium dioxide coated with isopropoxytitanium triisostearate, containing by weight 1,5 % or more but not more than 2,5 % of isopropoxytitanium triisostearate; glass flakes (CAS RN 65997-17-3): — of a thickness of 0,3 μ m or more but not more than 10 μ m, and — coated with titanium dioxide (CAS RN 13463-67-7) or iron oxide (CAS RN 18282- 10-5); titanium dioxide, other than those of heading 3206 11 00; C.I. 77891; E 171; titanium(IV) oxide, other than those of heading 3206 11 00	0.1 - 1*	13463-67-7

*Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

SUB codes represent substances without registered CAS Numbers.

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

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

Section 4. First-aid measures

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

Description of necessary first aid measures

Eye contact

: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

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Section 4. First-aid measures

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

Most important symptoms/effects, acute and delayed

Potential acute health effect	ts		
Eye contact		No known significant effects or critical hazards.	
Inhalation		May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Skin contact		Defatting to the skin. May cause skin dryness and irritation.	
Ingestion		No known significant effects or critical hazards.	
Over-exposure signs/symp			
Eye contact		No specific data.	
Inhalation	:	Adverse symptoms may include the following: wheezing and breathing difficulties asthma reduced fetal weight increase in fetal deaths skeletal malformations	
Skin contact	:	Adverse symptoms may include the following: irritation 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 med		I 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	1	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 ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides 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

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. Avoid breathing 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 containment 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 container.
	contractor.

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Section 6. Accidental release measures

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 asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	: Ingestion of product or cured coating may be harmful. 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. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. 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.
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Section 8. Exposure controls/personal protection

Control parameters

Occupati	onal	exposure	limits

Ingredient name	Exposure limits
Solvent naphtha (petroleum), medium aliph.	CA Ontario Provincial (Canada, 6/2019). [Mineral Spirits]
tert-butyl acetate	TWA: 525 mg/m ³ 8 hours. CA Alberta Provincial (Canada, 6/2018). Skin sensitizer. 8 hrs OEL: 950 mg/m ³ 8 hours. 8 hrs OEL: 200 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 250 ppm 15 minutes. TWA: 200 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). [butyl acetates, all isomers] STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). [butyl acetate, all isomers] STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). [butyl acetates (all isomers)] STEV: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). [butyl acetates (all isomers)] STEV: 150 ppm 15 minutes. TWAEV: 50 ppm 8 hours.
barium sulfate	 CA British Columbia Provincial (Canada, 6/2022). TWA: 5 mg/m³ 8 hours. Form: Inhalable CA Ontario Provincial (Canada, 6/2019). TWA: 5 mg/m³ 8 hours. Form: Inhalable particulate matter. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m³ 8 hours. CA Quebec Provincial (Canada, 6/2022). TWAEV: 5 mg/m³ 8 hours. Form: inhalable dust CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m³ 15 minutes. TWA: 10 mg/m³ 8 hours.
Talc , not containing asbestiform fibres	CA British Columbia Provincial (Canada, 6/2022). TWA: 2 mg/m ³ 8 hours. Form: Respirable CA Ontario Provincial (Canada). TWA: 2 ppb Form: Respirable TWA: 2 mg/m ³ Form: Respirable CA Quebec Provincial (Canada, 6/2022). TWAEV: 2 mg/m ³ 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 2 mg/m ³ 8 hours. Form: Respirable particulate
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Section 8. Exposure controls/personal protection

	CA Ontario Provincial (Canada, 6/2019).
	TWA: 2 mg/m ³ 8 hours. Form: Respirable
	particulate matter.
	CA Saskatchewan Provincial (Canada,
	7/2013).
	TWA: 2 mg/m ³ 8 hours. Form: respirable
	fraction
2-ethylhexanoic acid, zirconium salt	CA Alberta Provincial (Canada, 6/2018).
	[Zirconium and compounds as Zr]
	15 min OEL: 10 mg/m³, (as Zr) 15 minutes.
	8 hrs OEL: 5 mg/m ³ , (as Zr) 8 hours.
	CA British Columbia Provincial (Canada,
	6/2022). [Zirconium and compounds as Zr] STEL: 10 mg/m ³ , (as Zr) 15 minutes.
	TWA: 5 mg/m ³ , (as Zr) 8 hours.
	CA Quebec Provincial (Canada, 6/2022).
	[Zirconium and compounds]
	STEV: 10 mg/m ³ , (as Zr) 15 minutes.
	TWAEV: 5 mg/m ³ , (as Zr) 8 hours.
	CA Ontario Provincial (Canada, 6/2019).
	[Zirconium and compounds as Z]
	STEL: 10 mg/m³, (as Zr) 15 minutes.
	TWA: 5 mg/m³, (as Zr) 8 hours.
Fatty acids, C9-13-neo-, cobalt salts	CA British Columbia Provincial (Canada,
	6/2022). [cobalt and inorganic
	compounds as Co, Inhalable] Skin
	sensitizer. Inhalation sensitizer.
	CA British Columbia Provincial (Canada,
	6/2022). [Cobalt and inorganic
	compounds as Co, Total] Skin sensitizer.
	Inhalation sensitizer.
	TWA: 0.02 mg/m ³ , (as Co, Total) 8 hours.
	CA Quebec Provincial (Canada, 6/2022).
	[Cobalt elemental, and inorganic
	compounds] Skin sensitizer. Inhalation
	sensitizer.
	TWAEV: 0.02 mg/m³, (as Co) 8 hours. CA Ontario Provincial (Canada, 6/2019).
	[Cobalt and inorganic compounds as Co]
	TWA: 0.02 mg/m ³ , (as Co) 8 hours.
	CA Saskatchewan Provincial (Canada,
	7/2013). [Cobalt and inorganic
	compounds as Co]
	STEL: 0.06 mg/m³, (measured as Co) 15
	minutes.
	TWA: 0.02 mg/m³, (measured as Co) 8
	hours.
neodecanoic acid, cobalt salt	CA British Columbia Provincial (Canada,
	6/2022). [cobalt and inorganic
	compounds as Co, Inhalable] Skin
	sensitizer. Inhalation sensitizer.
	CA British Columbia Provincial (Canada,
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Section 8. Exposure controls/personal protection

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STEL: 20 mg/m ³ 15 minutes.		•

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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	<u>es</u>	
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	:	Safety glasses with side shields.
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	:	For prolonged or repeated handling, use the following type of gloves:
		Recommended: neoprene, natural rubber (latex), nitrile rubber
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	•	Be an air-fed respirator unless a site-specific assessment determines that an air- fed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. Respirator selection must be based on known or

of the selected respirator.

anticipated exposure levels, the hazards of the product and the safe working limits

Section 9. Physical and chemical properties

Appearance

<u>Appoulation</u>			
Physical state	1	Liquid.	
Color	4	Red.	
Odor	1	Characteristic.	
Odor threshold	1	Not available.	
рН	4	Not applicable.	
Melting point	4	Not available.	
Boiling point	4	>37.78°C (>100°F)	
Flash point	4	Closed cup: 45°C (113°F)	
Auto-ignition temperature	4	Not available.	
Decomposition temperature	4	Not available.	
Flammability	1	Not available.	
Lower and upper explosive (flammable) limits	1	Not available.	
Evaporation rate	:	Not available.	
Vapor pressure	1	Not available.	
Vapor density	1	Not available.	
Relative density	1	1.07	
Density(lbs / gal)	1	8.93	
Solubility(ies)		Media	Result
Solubility(les)	ľ	old water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Viscosity	:	Kinematic (40°C (104°F)): >	>21 mm²/s (>21 cSt)
Volatility	1	42% (v/v), 32.156% (w/w)	
% Solid. (w/w)	:	67.844	

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 metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Solvent naphtha (petroleum), medium aliph.	LD50 Dermal	Rabbit	>3000 mg/kg	-
·	LD50 Oral	Rat	>5000 mg/kg	-
tert-butyl acetate	LD50 Oral	Rat	4100 mg/kg	-
barium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
2-ethylhexanoic acid, zirconium salt	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
neodecanoic acid, cobalt salt	LD50 Oral	Rat - Female	1098 mg/kg	-
2-butanone oxime	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and n	nists Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Conclusion/Summary	: There are no data availab	le on the mixture itse	elf.	
rritation/Corrosion				
Conclusion/Summary				
Skin	: There are no data availab	le on the mixture itse	elf.	
Eyes	: There are no data availab	le on the mixture itse	elf.	
Respiratory	: There are no data availab	le on the mixture itse	elf.	
Sensitization				
Product/ingredient name	Route of Species exposure		Result	
	4			

Reodecanoic acid, cobalt salt	skin		Mouse		Sensitizing
Skin	: Ther	re are no d	ata availal	ole on the mixture itsel	f.
Respiratory	: Ther	: There are no data available on the mixture itself.			
<u>Mutagenicity</u>					
Conclusion/Summary	: Ther	re are no d	ata availal	ole on the mixture itsel	f.
Carcinogenicity					
Conclusion/Summary	: There are no data available on the mixture itself.				
Classification					
Product/ingredient name		OSHA	IARC	NTP	
✓atty acids, C9-13-neo-, coba neodecanoic acid, cobalt salt ethylbenzene titanium dioxide	lt salts	-	2B 2B 2B 2B		ed to be a human carcinogen. ed to be a human carcinogen.

Carcinogen Classification code:

Product name SIGMADUR ONE RED 6188

Section 11. Toxicological information

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

Reproductive toxicity

Conclusion/Summary

Conclusion/Summary

: There are no data available on the mixture itself.

Teratogenicity

: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Solvent naphtha (petroleum), medium aliph.	Category 3	-	Narcotic effects
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
Fatty acids, C9-13-neo-, cobalt salts	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Solvent naphtha (petroleum), medium aliph.	Category 1	-	central nervous system (CNS)
neodecanoic acid, cobalt salt	Category 1	oral	gastrointestinal tract
ethylbenzene	Category 2	-	hearing organs

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

Aspiration hazard

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

Information on the likely routes of exposure

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	1	No specific data.
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Section 11. Toxicological information

Inhalation	: Adverse symptoms may include the following: wheezing and breathing difficulties asthma reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation 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 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 dermal routes of exposure and eye contact.
<u>Short term exposure</u> Potential immediate		There are no data available on the mixture itself.
effects	ľ	
Potential delayed effects	-	There are no data available on the mixture itself.
Long term exposure	_	These are no data available on the mistigned itself
Potential immediate effects	÷	There are no data available on the mixture itself.
Potential delayed effects	:	There are no data available on the mixture itself.
Potential chronic health eff	ect	<u>s</u>

Product name SIGMADUR ONE RED 6188

Section 11. Toxicological information

General	: Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: M ay damage fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
GMADUR ONE RED 6188	23861.1	3963.8	N/A	N/A	N/A
Solvent naphtha (petroleum), medium aliph.	N/A	2500	N/A	N/A	N/A
tert-butyl acetate	4100	N/A	N/A	N/A	N/A
barium sulfate	N/A	2500	N/A	N/A	N/A
Fatty acids, C9-13-neo-, cobalt salts	500	N/A	N/A	N/A	N/A
neodecanoic acid, cobalt salt	1098	N/A	N/A	N/A	N/A
2-butanone oxime	500	1100	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
ethylhexanoic acid, zirconium salt	Acute LC50 >100 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours -
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10 da	ays	-	-
	-				
Product/ingredient name	Aquatic half-life	F	Photolysis	5	Biodegradability

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Fert-butyl acetate	1.64	-	Low
2-butanone oxime	0.63	5.01	Low
ethylbenzene	3.6	79.43	Low

Mobility in soil

Product name SIGMADUR ONE RED 6188

Section 12. Ecological information

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 nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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

Section 14. Transport information

	TDG	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	III		
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

- TDG
 : None identified.

 IMDG
 : None identified.
- 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.

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Section 14. Transport information

Transport in bulk according : Not applicable. to IMO instruments

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

Section 15. Regulatory information

National Inventory List

Canada inventory (DSL)

: All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health: 2 * Flammability: 2 Physical hazards: 0

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Health : 2 Flammabi Date of issue/Date of revision	ility: 2 Instability: 0 3 September 2023
Organization that prepared the SDS	: 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.

<u>Disclaimer</u>

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.