SAFETY DATA SHEET



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

Date of issue/Date of revision 26 April 2024 Version 15

Section 1. Identification		
Product name	: SIGMADUR ONE ORANGE 3149	
Product code	: 00322208	
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.	
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	
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)	
Technical Phone Number	: 888-977-4762	

Section 2. Hazard identification

Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1A CARCINOGENICITY - Category 1 TOXIC TO REPRODUCTION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 Health Hazards Not Otherwise Classified - Category 1

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Section 2. Hazard 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).

	protective equipment and/or engineering controls (see Section 0).
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapor. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. 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.
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: 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 ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated. 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.

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Section 2. Hazard identification

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 11% (oral), 27.2% (dermal), 61.1% (inhalation)

Section 3. Composition/information on ingredients

Substance/mixture	1	Mixture
Product name	:	SIGMADUR ONE ORANGE 3149
Other means of identification	:	Not available.

CAS number/other identifiers

Ingredient name	Synonyms	% (w/w)	CAS number
Naphtha (petroleum), hydrotreated heavy	Low boiling point hydrogen treated naphtha; Hydrotreated heavy naphtha (petroleum); Hydrotreated light steam cracked naphtha residuum (petroleum); Naphtha, petroleum, hydrotreated heavy; Hydrotreated light, steam cracked naphtha residuum, petroleum; Hydrotreated heavy naphtha; Naphtha, (petroleum), heavy, hydrotreated; NAPHTHA	10 - 30*	64742-48-9
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
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 aliph.; Stoddard 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	5 - 10*	64742-88-7
2-ethylhexanoic acid	Hexanoic acid, 2-ethyl-; Ethyl hexanoic acid; 2-ETHYLHEXANOIC ACID and its alkyl esters; 3-Heptanecarboxylic acid; 2-Ethylcaproic acid; 2-Ethyl hexoic acid; Alkanoic acid (C4-30); Butylethylacetic acid; 2-Butylbutanoic acid; ETHYL HEXANOIC ACID, 2-; 2-ETHYLHEXANOIC ACID (EHA)	1 - 5*	149-57-5
Solvent naphtha (petroleum), heavy arom.	Kerosine - unspecified; Solvent naphtha, petroleum, heavy aromatic; (Polyethyl) benzenes; Solvent naphtha, petroleum, heavy arom ultra low naphthalene; Heavy aromatic solvent naphtha; Solvent	1 - 5*	64742-94-5
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Section 3. Composition/information on ingredients

naphtha; Solvent naphtha (petroleum), heavy aromatic; Heavy solvent naphtha; Solvent naphtha (petroleum), heavy arom; AROMATIC PETROLEUM DISTILLATE; Solvent Naphtha (petroleum)		
1-methoxy-2-propanol monopropylene glycol methyl ether; 1-methoxypropan-2-ol; 2-Propanol, 1-methoxy-; Propylene glycol monomethyl ether; Dowtherm 209; Propylene glycol methyl ether; 1-Methoxy- 2-hydroxypropane; 2-Methoxy- 1-methylethanol; PGME; mixture containing by weight: — 69 % or more but not more than 71 % of 1-methoxypropan- 2-ol (CAS RN 107-98-2), — 29 % or more but not more than 31 % of 2-methoxy- 1-methylethyl acetate (CAS RN 108-65-6); methoxyisopropanol	0.5 - 1.5*	107-98-2
titanium dioxide Titanium oxide; Titanium oxide (TiO2); Cl 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 µm or more but not more than 10 µm, 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	0.5 - 1.5*	13463-67-7
2-ethylhexanoic acid, zirconium salt Hexanoic acid, 2-ethyl-, zirconium salt (1:?); Hexanoic acid, 2-ethyl-, zirconium salt; Zirconium 2-ethylhexanoite; 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
calcium bis(2-ethylhexanoate) Hexanoic acid, 2-ethyl-, calcium salt (2:1); Hexanoic acid, 2-ethyl-, calcium salt; Calcium 2-ethylhexanoate; calcium 2-ethylhexoate; Hexanoic acid, 2-ethyl,- calcium salt; Aliphatic monocarboxylic acid (C6-28) light metal salt (Na,K,Li,Ba, Mg,Ca); 2-ETHYLHEXANOIC ACID CALCIUM SALT; HEXANOATE, ETHYL-,	0.1 - 1*	136-51-6
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Section 3. Composition/information on ingredients

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	CALCIUM; HEXANOATE, 2-ETHYL-, CALCIUM; CALCIUM-2-ETHYLHEXOATE		
2-butanone oxime	butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime; 2-Butanone, oxime; METHYL ETHYL KETOXIME; METHYL ETHYL KETONE OXIME; ethyl methyl ketoxime; ethyl methyl ketone oxime; MEKO; Butan-2-one oxime; syn-O, O'-di(butan-2-one oxime)diethoxysilane; Methyl alkyl (C2-4) ketoxime	0.1 - 1*	96-29-7
cobalt bis(2-ethylhexanoate)	Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2: 1); Hexanoic acid, 2-ethyl-, cobalt(2+) salt; Cobalt octoate; Cobalt 2-ethylhexanoate; Cobalt(II) 2-ethylhexanoate; Aliphatic monocarboxylic acid (C6-28) salt (Pb, Cu, Mn, Zn, Zr, Ce, Cd, Sn, Sr, Co); 2-Ethylhexanoic acid cobalt(2+) salt; Cobaltous octoate; HEXANOATE, 2-ETHYL-, COBALT (II); HEXANOIC ACID, 2-ETHYL, COBALT(2+)SALT		136-52-7

*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.
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		
Eye contact	uses serious eye irritation.	
Inhalation	y cause respiratory irritation.	
Skin contact	fatting to the skin. May cause skin dryness and irritat n reaction.	ion. May cause an allergic

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Section 4. First-aid measures

Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sym	<u>otoms</u>
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 me	dical 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 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.

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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, protect	tiv	e equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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 co	<u>nt</u>	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for

emergency contact information and Section 13 for waste disposal.

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Section 7. Handling and storage

	Precautions	for safe	handling
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Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be
	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.

Section 8. Exposure controls/personal protection

<u>Control parameters</u> <u>Occupational exposure limits</u>

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Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Maphtha (petroleum), hydrotreated heavy barium sulfate	None. CA British Columbia Provincial (Canada, 6/2022). TWA: 5 mg/m ³ 8 hours. Form: Inhalable CA Ontario Provincial (Canada, 6/2019). TWA: 5 mg/m ³ 8 hours. Form: Inhalable particulate matter. CA Alberta Provincial (Canada, 6/2018). OEL: 10 mg/m ³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m ³ 15 minutes. TWA: 10 mg/m ³ 8 hours. CA Quebec Provincial (Canada, 6/2022). TWAEV: 5 mg/m ³ 8 hours. Form: inhalable dust
Solvent naphtha (petroleum), medium aliph.	CA Ontario Provincial (Canada, 6/2019). [Mineral Spirits] TWA: 525 mg/m³ 8 hours.
2-ethylhexanoic acid	 CA Saskatchewan Provincial (Canada, 7/2013). STEL: 10 mg/m³ 15 minutes. Form: Inhalable fraction and vapour TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction and vapour CA Alberta Provincial (Canada, 6/2018). OEL: 5 mg/m³ 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction and vapour. CA British Columbia Provincial (Canada, 6/2022). TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction and vapour.
Solvent naphtha (petroleum), heavy arom. 1-methoxy-2-propanol	None. CA Alberta Provincial (Canada, 6/2018). OEL: 553 mg/m ³ 15 minutes. OEL: 150 ppm 15 minutes. OEL: 369 mg/m ³ 8 hours. OEL: 100 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). STEV: 553 mg/m ³ 15 minutes. STEV: 150 ppm 15 minutes. TWAEV: 369 mg/m ³ 8 hours. TWAEV: 369 mg/m ³ 8 hours. TWAEV: 100 ppm 8 hours. CA Saskatchewan Provincial (Canada,
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Section 8. Exposure controls/personal protection

1	7/2013).
	STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
titanium dioxide	CA British Columbia Provincial (Canada,
	6/2022). [Titanium dioxide]
	TWA: 10 mg/m ³ 8 hours. Form: Total dust
	TWA: 3 mg/m ³ 8 hours. Form: respirable
	fraction
	CA Quebec Provincial (Canada, 6/2022).
	TWAEV: 10 mg/m³ 8 hours. Form: Total
	dust.
	CA Alberta Provincial (Canada, 6/2018).
	Skin sensitizer. OEL: 10 mg/m ³ 8 hours.
	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 20 mg/m ³ 15 minutes.
	TWA: 10 mg/m ³ 8 hours.
	CA Ontario Provincial (Canada, 6/2019).
	TWA: 10 mg/m ³ 8 hours. Form: total dust
2-ethylhexanoic acid, zirconium salt	CA Alberta Provincial (Canada, 6/2018).
	[Zirconium and compounds as Zr]
	OEL: 10 mg/m³, (as Zr) 15 minutes.
	OEL: 5 mg/m³, (as Zr) 8 hours.
	CA British Columbia Provincial (Canada,
	6/2022). [Zirconium and compounds as Zr]
	STEL: 10 mg/m³, (as Zr) 15 minutes. TWA: 5 mg/m³, (as Zr) 8 hours.
	CA Quebec Provincial (Canada, 6/2022).
	[Zirconium and compounds]
	STEV: 10 mg/m³, (as Zr) 15 minutes.
	TWAEV: 5 mg/m³, (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.
calcium bis(2-ethylhexanoate) 2-butanone oxime	None. IPEL (-).
	TWA: 3 ppm
	STEL: 9 ppm
cobalt bis(2-ethylhexanoate)	CA British Columbia Provincial (Canada,
······································	6/2022). [cobalt and inorganic
	compounds as Co, Inhalable] Skin
	sensitizer. Inhalation sensitizer.
	OA Deitich Ochembia Descholation (Oceanity
	CA British Columbia Provincial (Canada, 6/2022). [Cobalt and inorganic
	compounds as Co, Total] Skin sensitizer.
	Inhalation sensitizer.
	TWA: 0.02 mg/m³, (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.
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Section 8. Exposure controls/personal protection

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	CA Ontario Provincial (Canada, 6/2019).
	[Cobalt and inorganic compounds as Co]
	TWA: 0.02 mg/m³, (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.

Consult local authorities for acceptable exposure limits.

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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.
Gloves Body protection	:	butyl rubber 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.
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.
Eye/face protection Skin protection	-	Chemical splash goggles.
Hygiene measures		Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Individual protection measu		
controls		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.
Environmental exposure		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. Emissions from ventilation or work process equipment should be checked to ensure
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne
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.

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Section 8. Exposure controls/personal protection

Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
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Section 9. Physical and chemical properties

<u>Appearance</u>			
Physical state	:	Liquid.	
Color	1	Orange.	
Odor	4	Aromatic.	
Odor threshold	1	Not available.	
рН	÷	Not applicable.	
Melting point		Not available.	
Boiling point	4	>37.78°C (>100°F)	
Flash point	1	Closed cup: 41°C (105.8°F)	
Auto-ignition temperature	1	Not available.	
Decomposition temperature	:	Not available.	
Flammability	1	Not available.	
Lower and upper explosive (flammable) limits	:	Not available.	
Evaporation rate	:	Not available.	
Vapor pressure	:	Not available.	
Vapor density	:	Not available.	
Relative density	:	1.06	
Density(lbs / gal)	:	8.85	
Solubility(ies)		Media	Result
Solubility(les)	1	cold water	Not soluble
Partition coefficient: n- octanol/water	;	Not applicable.	
Viscosity	:	Kinematic (40°C (104°F)): >	>21 mm²/s (>21 cSt)
Volatility	:	44% (v/v), 32.746% (w/w)	
% Solid. (w/w)	:	67.254	

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.
	Conside Bogo: 12/19

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Section 10. Stability and reactivity

Refer to protective measures listed in sections 7 and 8.

Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Naphtha (petroleum),	LD50 Dermal	Rabbit	>5000 mg/kg	-
hydrotreated heavy				
, ,	LD50 Oral	Rat	>6 g/kg	-
barium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Solvent naphtha (petroleum),	LD50 Dermal	Rabbit	>3000 mg/kg	-
medium aliph.				
	LD50 Oral	Rat	>5000 mg/kg	-
2-ethylhexanoic acid	LD50 Dermal	Rat	>2000 mg/kg	-
-	LD50 Oral	Rat	3640 mg/kg	-
Solvent naphtha (petroleum),	LC50 Inhalation Dusts and mists	Rat	>5.2 mg/l	4 hours
heavy arom.			_	
-	LD50 Oral	Rat	>5 g/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 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	-
2-ethylhexanoic acid,	LD50 Dermal	Rabbit	>5 g/kg	-
zirconium salt				
	LD50 Oral	Rat	>5 g/kg	-
2-butanone oxime	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-
cobalt bis(2-ethylhexanoate)	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	3129 mg/kg	-

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

Irritation/Corrosion	
Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Sensitization	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
<u>Mutagenicity</u>	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	

Product name SIGMADUR ONE ORANGE 3149

Section 11. Toxicological information

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

Classification

Product/ingredient name	OSHA	IARC	NTP
Manium dioxide	-	2B	-
cobalt bis(2-ethylhexanoate)	-	2B	Reasonably anticipated 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	Category	Route of exposure	Target organs
Naphtha (petroleum), hydrotreated heavy	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), medium aliph.	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), heavy arom.	Category 3	-	Narcotic effects
1-methoxy-2-propanol	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Solvent naphtha (petroleum), medium aliph.	Category 1	-	central nervous system (CNS)

Target organs

: Contains material which causes damage to the following organs: brain, skin, central nervous system (CNS).

Contains material which may cause damage to the following organs: kidneys, lungs, the reproductive system, liver, heart, upper respiratory tract, eye, lens or cornea.

Aspiration hazard

Name	Result
Solvent naphtha (petroleum), medium aliph.	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.
Inhalation	: May cause respiratory irritation.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

Product name SIGMADUR ONE ORANGE 3149

Section 11. Toxicological information

Over-exposure signs/symptoms

<u></u>	
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 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.
Short term exposure		
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects	:	There are no data available on the mixture itself.
Long term exposure		

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		-
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>
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	:	May 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 ORANGE 3149	139637.9	8973.3	N/A	N/A	N/A	
barium sulfate	N/A	2500	N/A	N/A	N/A	
Solvent naphtha (petroleum), medium aliph.	N/A	2500	N/A	N/A	N/A	
2-ethylhexanoic acid	3640	2500	N/A	N/A	N/A	
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A	
2-butanone oxime	500	1100	N/A	N/A	N/A	
cobalt bis(2-ethylhexanoate)	3129	N/A	N/A	N/A	N/A	

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), heavy arom.	NOEL 0.48 mg/l Fresh water	Daphnia	21 days
1-methoxy-2-propanol	Acute LC50 23300 mg/l Acute LC50 >4500 mg/l Fresh water	Daphnia Fish	48 hours 96 hours
titanium dioxide 2-ethylhexanoic acid, zirconium salt	Acute LC50 >100 mg/l Fresh water Acute LC50 >100 mg/l	Daphnia - <i>Daphnia magna</i> Fish	48 hours 96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
✓ethylhexanoic acid Solvent naphtha (petroleum),	2.7 2.8 to 6.5	-	Low High
heavy arom. 1-methoxy-2-propanol 2-butanone oxime	<1 0.63	- 5.01	Low Low
2-butanone oxime	0.63	5.01	Low

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Section 12. Ecological information

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 intermelly. Avoid dispersed of an information or display have been cleaned thoroughly intermelly. Avoid dispersed of an explosive atmosphere inside the container.		
waterways, drains and sewers.	Disposal methods	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,

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		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.

Product name SIGMADUR ONE ORANGE 3149

Section 14. Transport information

Transport in bulk according		Not applicable.
to IMO instruments		

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

Section 15. Regulatory information

National Inventory List

Canada inventory (DSL)

: At least one component is not listed in DSL but all such components are listed in NDSL.

Section 16. Other information

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

Health : 3 * 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 : 3 Flamma	bility : 2 Instability : 0
Date of issue/Date of revision	26 April 2024
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.

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