# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

# SAFETY DATA SHEET

Date of issue/Date of revision

: 3 June 2024

**Version** : 1.02



## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier	
Product name	: SIGMADUR ONE ORANGE 3149
Product code	: 00322209
Product type	: Liquid.
Other means of identification	: Not available.
1.2 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	: Product is not intended, labelled or packaged for consumer use.

## 1.3 Details of the supplier of the safety data sheet

PPG Coatings Belgium BV/SRL Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435

e-mail address of person responsible for this SDS

: Product.Stewardship.EMEA@ppg.com

#### responsible for this SDS

1.4 Emergency telephone number

**Supplier** 

+31 20 4075210

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to UK CLP/GHS Flam. Liq. 3, H226 Skin Sens. 1, H317 Carc. 1B, H350 Repr. 1B, H360D STOT SE 3, H336 STOT RE 1, H372 Aquatic Chronic 3, H412 The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended. See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

## 2.2 Label elements

Hazard pictograms



#### Signal word

: Danger

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SECTION 2: Hazards	; ic	lentification
Hazard statements	:	Flammable liquid and vapour. May cause an allergic skin reaction. May cause drowsiness or dizziness. May cause cancer. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	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. Do not breathe vapour.
Response	1	IF exposed or concerned: Get medical advice or attention.
Storage	:	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations. P202, P280, P210, P260, P308 + P313, P501
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Restricted to professional users.
Special packaging requiren	nen	<u>ts</u>
Containers to be fitted with child-resistant	:	Not applicable.

# Tactile warning of danger: Not applicable.2.3 Other hazards

fastenings

2.5 Other nazarus		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: This mixture does not contain any substances that are assessed to be a PBT or vPvB.	а
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.	

## **SECTION 3: Composition/information on ingredients**

Product/ingredient name	Identifiers	%	Classification	Туре
₩ydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		≥10 - <20	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066	[1]
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene	REACH #: 01-2119458049-33 EC: 919-446-0 CAS: 64742-82-1	≥10 - <20	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H336 STOT RE 1, H372 (central nervous system (CNS)) (inhalation) Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1] [2]
English (GB)	United <b>K</b>	(ingdom (UK)		2/1

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SECTION 3: Composition	on/information on i	ngredients		
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2	≥1.0 - ≤5.0	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
2-ethylhexanoic acid, zirconium salt	Index: 603-064-00-3 REACH #: 01-2119979088-21 EC: 245-018-1 CAS: 22464-99-9 Index: 607-230-00-6	≥1.0 - ≤5.0	Repr. 1B, H360D	[1] [2]
calcium bis(2-ethylhexanoate)	REACH #: 01-2119978297-19 EC: 205-249-0 CAS: 136-51-6 Index: 607-230-00-6	<0.30	Eye Dam. 1, H318 Repr. 1B, H360D	[1]
butanone oxime	REACH #: 01-2119539477-28 EC: 202-496-6 CAS: 96-29-7 Index: 616-014-00-0	≤0.30	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1B, H350 STOT SE 1, H370 (upper respiratory tract) STOT SE 3, H336 STOT RE 2, H373 (blood system)	[1]
cobalt bis(2-ethylhexanoate)	REACH #: 01-2119524678-29 EC: 205-250-6 CAS: 136-52-7 Index: 607-230-00-6	<0.30	Èye Irrit. 2, H319 Skin Sens. 1A, H317 Repr. 1B, H360FD Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	[1] [2
			See Section 16 for the full text of the H statements declared above.	

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

This mixture contains  $\geq$  1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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

## SUB codes represent substances without registered CAS Numbers.

## **SECTION 4: First aid measures**

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English (GB)	United Kingdom (UK) 3/17
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Inhalation	<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>
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.
4.1 Description of first aid	measures

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SECTION 4: First ai	d measures
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.
	ms and effects, both acute and delayed
Potential acute health effec	
Eye contact	: No known significant effects or critical hazards.
Inhalation	<ul> <li>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.</li> </ul>
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic ski reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
4.3 Indication of any immed	liate medical attention and special treatment needed
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.

5.1 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.

## 5.2 Special hazards arising from the substance or mixture

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SECTION 5: Firefighting measures		

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Hazards from the substance or mixture	: Flammable liquid and vapour. 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
5.3 Advice for firefighters	
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	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

## **SECTION 6: Accidental release measures**

English (GB)	United Kingdom (UK)	5/17
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.	
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools a explosion-proof equipment. Approach the 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 no combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous ear 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 spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.	o on- th
6.3 Methods and material for Small spill	<ul> <li>containment and cleaning up</li> <li>Stop leak if without risk. Move containers from spill area. Use spark-proof tools a 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 ar appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</li> </ul>	
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmen pollution (sewers, waterways, soil or air). Water polluting material. May be harmfu to the environment if released in large quantities.	tal
For emergency responders	: If specialised 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".	
For non-emergency personnel	<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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</li> </ul>	
6.1 Personal precautions, pro	tective equipment and emergency procedures	

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## **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. 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.
	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.
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.

## 7.2 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 oxidising 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## **Occupational exposure limits**

Product/ingredient name	Exposure limit values
₩ydrocarbons, C9-C12, n-alkanes, isoalkanes,	EU OEL (Europe).
cyclics, aromatics (2-25%) > 0.1% cumene	TWA: 300 mg/m³ Form: Vapour
	TWA: 52 ppm Form: Vapour
1-methoxy-2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 560 mg/m <sup>3</sup> 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m <sup>3</sup> 8 hours.
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<b>SECTION 8: Exposure contro</b>	ls/personal protection	

2-ethylhexanoic acid, zirconium salt	TWA: 100 ppm 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). [zirconium compounds]
cobalt bis(2-ethylhexanoate)	STEL: 10 mg/m <sup>3</sup> , (as Zr) 15 minutes. TWA: 5 mg/m <sup>3</sup> , (as Zr) 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). [cobalt and cobalt compounds] Inhalation sensitiser. TWA: 0.1 mg/m <sup>3</sup> , (as Co) 8 hours.
Product/ingredient name	Exposure indices

Recommended monitoring	:	Reference should be made to appropriate monitoring standards. Reference to
procedures		national guidance documents for methods for the determination of hazardous
		substances will also be required.

## DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
ydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, <2% aromatics	DNEL	Long term Dermal	208 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	871 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	125 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	185 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Oral	125 mg/kg bw/day	General population [Consumers]	Systemic
Hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene	DNEL	Long term Inhalation	330 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	44 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	71 mg/m³	General population	Systemic
	DNEL	Long term Dermal	26 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	26 mg/kg bw/day	General population	Systemic
1-methoxy-2-propanol	DNEL	Long term Oral	33 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	43.9 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	78 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	369 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	553.5 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	553.5 mg/m <sup>3</sup>	Workers	Systemic
2-ethylhexanoic acid, zirconium salt	DNEL	Long term Inhalation	0.58 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	2.351 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	0.167 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.167 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.333 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.7 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	2.82 mg/m <sup>3</sup>	Workers	Local
calcium bis(2-ethylhexanoate)		Long term Oral	0.167 mg/kg bw/day	General population	
	DNEL	Long term Dermal	0.167 mg/kg bw/day	General population	
	DNEL	Long term Dermal	0.333 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.58 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	2.351 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	0.66 mg/m <sup>3</sup>	General population	Local
hutanana avima	DNEL	Long term Inhalation	2.66 mg/m <sup>3</sup>	Workers	Local
butanone oxime	DMEL DMEL	Long term Oral Long term Dermal	1.6 μg/kg bw/day 4 μg/kg bw/day	General population Workers	Systemic Systemic
			- pying bwiday		Cysternic
English (GB)		United King	gdom (UK)		7/17

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## SECTION 8: Exposure controls/personal protection

	1				
	DMEL	Long term Inhalation	4.82 μg/m³	General population	Systemic
	DMEL	Long term Inhalation	28 µg/m³	Workers	Systemic
	DNEL	Long term Inhalation	0.43 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	0.9 mg/m <sup>3</sup>	Workers	Local
cobalt bis(2-ethylhexanoate)	DNEL	Long term Inhalation	37 µg/m³	General population	Local
	DNEL	Long term Oral	175 µg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	235.1 µg/m³	Workers	Local

## **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
1-methoxy-2-propanol	Fresh water	10 mg/l	Assessment Factors
	Marine water	1 mg/l	Assessment Factors
	Sewage Treatment Plant	100 mg/l	Assessment Factors
	Fresh water sediment	41.6 mg/kg	Equilibrium Partitioning
	Marine water sediment	4.17 mg/kg	Equilibrium Partitioning
	Soil	2.47 mg/kg	Equilibrium Partitioning
butanone oxime	Fresh water	0.256 mg/l	Assessment Factors
	Sewage Treatment Plant	177 mg/l	Assessment Factors
cobalt bis(2-ethylhexanoate)	Fresh water	0.6 µg/l	Sensitivity Distribution
	Marine water	2.36 µg/l	Sensitivity Distribution
	Sewage Treatment Plant	0.37 mg/l	Assessment Factors
	Fresh water sediment	9.5 mg/kg dwt	Sensitivity Distribution
	Marine water sediment	9.5 mg/kg dwt	Sensitivity Distribution
	Soil	10.9 mg/kg dwt	Sensitivity Distribution

#### 8.2 Exposure controls

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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### Individual protection measures

Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection Skin protection	Chemical splash goggles.
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. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. butyl rubber

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## **SECTION 8: Exposure controls/personal protection**

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. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
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.

## **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties **Appearance Physical state** : Liquid. Colour : Orange. Odour : Aromatic. **Odour threshold** Not available. Melting point/freezing point : May start to solidify at the following temperature: -53.5°C (-64.3°F) This is based on data for the following ingredient: nonane. Weighted average: -66.83°C (-88.3°F) Initial boiling point and : >37.78°C (>100°F) boiling range Flammability (solid, gas) : liquid Upper/lower flammability or : Greatest known range: Lower: 1.48% Upper: 13.74% (1-methoxy-2-propanol) explosive limits Closed cup: 42°C (107.6°F) **Flash point** τ. **Auto-ignition temperature** ż °C °F **Ingredient name** Method 2-[(2-methoxy-4-nitrophenyl)azo]-N-180 356 VDI 2263 (2-methoxyphenyl)-3-oxobutyramide

рН	1	Not applicable.
		Not applicable. insoluble in water.
Viscosity		Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s
Solubility(ies)	1	
Media		Result
cold water		Not soluble
Miscible with water	:	No.
Partition coefficient: n-octanol water	1 :	Not applicable.
Vapour pressure	:	

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## **SECTION 9: Physical and chemical properties**

	Vapour Pressure at 20°C		V	Vapour pressure at 5		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
1-methoxy-2-propanol	8.5	1.1				
Relative density	: 1.06	6	Į			
Vapour density	: Hig	hest known	value: 4.4 (Air =	1) (nonane). V	Veighted av	verage: 3.75 (Air =
Explosive properties		•	elf is not explosive with air is possible		ation of an e	explosible mixture
Oxidising properties	: Pro	duct does r	not present an oxid	dizing hazard.		
Particle characteristics						
Median particle size	: Not	applicable				

#### **SECTION 10: Stability and reactivity 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients. **10.2 Chemical stability** : The product is stable. 10.3 Possibility of : Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions **10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8. **10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. **10.6 Hazardous** : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds decomposition products metal oxide/oxides

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

## Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Hydrocarbons, C9-C11, n-	LD50 Dermal	Rat	>5000 mg/kg	-
alkanes, isoalkanes, cyclics,				
<2% aromatics				
	LD50 Oral	Rat	>5000 mg/kg	-
Hydrocarbons, C9-C12, n-	LD50 Oral	Rat	>15000 mg/kg	-
alkanes, isoalkanes, cyclics,				
aromatics (2-25%) >0.1%				
cumene				
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
2-ethylhexanoic acid,	LD50 Dermal	Rabbit	>5 g/kg	-
zirconium salt				
	LD50 Oral	Rat	>5 g/kg	-
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 itse	elf.	

Acute toxicity estimates English (GB)

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# SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMADUR ONE ORANGE 3149	50694.5	N/A	N/A	N/A	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
butanone oxime	100	1100	N/A	N/A	N/A
cobalt bis(2-ethylhexanoate)	3129	N/A	N/A	N/A	N/A

## Irritation/Corrosion

Conclusion/Summary Skin	<ul><li>Not available.</li><li>There are no data available on the mixture itself.</li></ul>
Eyes Respiratory <u>Sensitisation</u>	<ul><li>There are no data available on the mixture itself.</li><li>There are no data available on the mixture itself.</li></ul>
Conclusion/Summary Skin Respiratory	<ul><li>There are no data available on the mixture itself.</li><li>There are no data available on the mixture itself.</li></ul>
<u>Mutagenicity</u> Conclusion/Summary <u>Carcinogenicity</u>	: There are no data available on the mixture itself.
Conclusion/Summary Reproductive toxicity	: There are no data available on the mixture itself.
Conclusion/Summary <u>Teratogenicity</u>	: There are no data available on the mixture itself.
Conclusion/Summary	: There are no data available on the mixture itself.

## Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	Category 3	-	Narcotic effects
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene	Category 3	-	Narcotic effects
1-methoxy-2-propanol	Category 3	-	Narcotic effects
butanone oxime	Category 1	-	upper respiratory tract
	Category 3		Narcotic effects

## Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
aromatics (2-25%) > 0.1% cumene	Category 1 Category 2		central nervous system (CNS) blood system

## Aspiration hazard

Product/ingredient name	Result
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2%     aromatics	ASPIRATION HAZARD - Category 1
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene	ASPIRATION HAZARD - Category 1

# Information on likely routes : Not available. of exposure

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Potential acute health effects		
Eye contact	lo known significant effects or critical hazards.	
Inhalation	can cause central nervous system (CNS) depression. May cause drowsine izziness.	ess or
Skin contact	efatting to the skin. May cause skin dryness and irritation. May cause an kin reaction.	allergic
Ingestion	Can cause central nervous system (CNS) depression.	

## Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

Delayed and immediate effect	s well as chronic effects from short and long-term exposure	
Short term exposure		
Potential immediate effects	lot available.	
Potential delayed effects	lot available.	
Long term exposure		
Potential immediate effects	lot available.	
Potential delayed effects	lot available.	
Potential chronic health effe		
Not available.		
<b>Conclusion/Summary</b>	lot available.	
General	Causes damage to organs through prolonged or repeated exposure. Prolon epeated contact can defat the skin and lead to irritation, cracking and/or der Once sensitized, a severe allergic reaction may occur when subsequently ex o very low levels.	rmatitis.
Carcinogenicity	Nay cause cancer. Risk of cancer depends on duration and level of exposu	re.
Mutagenicity	lo known significant effects or critical hazards.	
Reproductive toxicity	<i>l</i> ay damage the unborn child.	
Other information	lot available.	

English	(GB)
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## **SECTION 12: Ecological information**

## 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, <2% aromatics	LC50 >1000 mg/l	Algae	72 hours
Hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1%	Chronic NOEC 0.097 mg/l Fresh water	Daphnia - Daphnia	21 days
cumene		Danhuia Danhuia	<b>10</b> h a una
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia - Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish - Goldfish	96 hours
2-ethylhexanoic acid, zirconium salt	Acute LC50 >100 mg/l	Fish	96 hours
Conclusion/Summary	: Not available.		÷

## **12.2 Persistence and degradability**

Product/ingredient name	Test	Result	Dose	Inoculum
ydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, <2% aromatics	-	80 % - Readily - 28 days	-	-
Hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene	OECD 301 F 301F Ready Biodegradability - Manometric Respirometry Test	75 % - Readily - 28 days	-	-

Conclusion/Summary	: Not available.		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, <2% aromatics Hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%) > 0.1% cumene	-	-	Readily Readily

## **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
	-	10 to 2500	High
1-methoxy-2-propanol butanone oxime	<1 0.63	- 5.01	Low Low

# 12.4 Mobility in soil Soil/water partition coefficient (Koc) Mobility : Not available.

## 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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## **SECTION 12: Ecological information**

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## **13.1 Waste treatment methods**

Product	
Methods of disposal	: The generation of waste should be avoided or minimised 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.
Hazardous waste	: Yes.
Waste catalogue	
Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Type of packaging	Waste catalogue
Container	15 01 06 mixed packaging
Special precautions	: This material and its container must be disposed of in a safe way. Care should be

al precautions
 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	Ш	III	III	111
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

#### Additional information

ADR/RID

: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.

Tunnel code

English (GB)

: (D/E)

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vessel	oduct is only regulated as an s. This class 3 viscous liquid 3.1.5.1.			
IMDG : This cl	ass 3 viscous liquid is not sul	oject to regulation in pack	agings up to 450	L according to 2.3.2
ATA : None i	dentified.			
I4.6 Special precautions a user	for : Transport within use upright and secure. End the event of an accide	nsure that persons transp		
I4.7 Transport in bulk according to IMO nstruments	: Not available.			
SECTION 15: Regu	latory information			
UK (GB)/REACH Annex XIV - List of sub Annex XIV None of the component Substances of very hi None of the component Ozone depleting substa Not listed. Annex XVII - Restriction on the manufacture, placing on the market and use of certain dangerous substances mixtures and articles Seveso Directive	gh concern s are listed. ances ns : Restricted to professio	<u>ation</u>	e substance or n	hixture
P5c				
National regulations				
Product/ingredient na	me List name	Name on list	Classification	Notes
cobalt bis(2-ethylhexand		cobalt and cobalt compounds as Co	Carc.	-
SECTION 16: Othe	r information			
Indicates information th Abbreviations and acronyms	at has changed from previous : ATE = Acute Toxicity GB CLP = UK CLP (E	•	Classification, La	belling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019
No. 720 and amendments
DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EUH statement = GB CLP-specific Hazard statement

PBT = Persistent, Bioaccumulative and Toxic

English	(GB)

United Kingdom (UK)

N/A = Not available

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## **SECTION 16: Other information**

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

## Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Sens. 1, H317	Calculation method
Carc. 1B, H350	Calculation method
Repr. 1B, H360D	Calculation method
STOT SE 3, H336	Calculation method
STOT RE 1, H372	Calculation method
Aquatic Chronic 3, H412	Calculation method

#### Full text of abbreviated H statements

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.
H360D	May damage the unborn child.
H360FD	May damage fertility. May damage the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

## **Full text of classifications**

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 1B	CARCINOGENICITY - Category 1B
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 1	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<u>History</u>	
Date of issue/ Date of	: 3 June 2024
revision	
Date of previous issue	e : 23 October 2023
Prepared by	: EHS
Version	: 1.02

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## **SECTION 16: Other information**

#### <u>Disclaimer</u>

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