SAFETY DATA SHEET

Date of issue/Date of revision

: 23 November 2022



: 9.01

Version

Denmark

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

1.1 Product identifier

: SIGMADUR ONE GREY 5177

Product name Product code

le : 00322216

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

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number

: Poison Information Centre; emergency telephone, public + 45 82 12 12 12 (health sector +45 35 31 55 55)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H336 STOT RE 1, H372 Aquatic Chronic 3, H412 The product is classified as hazardous according to Regulation (EC) 1272/2008 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.

English (GB)

Denmark

1/19

Code : 00322216	Date of issue/Date of revision	: 23 November 2022
SIGMADUR ONE GREY 5177		

SECTION 2: Hazards identification

2

2.2 Label elements



Signal word	: Danger
Hazard statements	 Flammable liquid and vapour. May cause drowsiness or dizziness. May cause cancer. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: 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	: IF exposed or concerned: Get medical advice or attention.
Storage	: 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.
	P280, P210, P260, P308 + P313, P403 + P233, P501
Hazardous ingredients	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) butanone oxime
Supplemental label elements	 Contains butanone oxime and neodecanoic acid, cobalt salt. May produce an allergic reaction. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
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 requirem	<u>ients</u>
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

Code : 00322216 SIGMADUR ONE GREY 5177 Date of issue/Date of revision

: 23 November 2022

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture					
Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, <2% aromatics	REACH #: 01-2119463258-33 EC: 919-857-5 CAS: 64742-48-9	≥10 - <20	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066	EUH066: C ≥ 20%	[1]
Hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)	REACH #: 01-2119458049-33 EC: 919-446-0 CAS: 64742-82-1	≥10 - <20	Flam. Liq. 3, H226 STOT SE 3, H336 STOT RE 1, H372 (central nervous system (CNS)) (inhalation) Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	EUH066: C ≥ 20%	[1]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥1.0 - ≤5.0	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
2-ethylhexanoic acid, zirconium salt	REACH #: 01-2119979088-21 EC: 245-018-1 CAS: 22464-99-9	≥1.0 - <3.0	Repr. 2, H361d (oral)	-	[1] [2]
calcium bis (2-ethylhexanoate)	REACH #: 01-2119978297-19 EC: 205-249-0 CAS: 136-51-6	≤0.30	Eye Dam. 1, H318 Repr. 2, H361d (oral)	-	[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)	ATE [Oral] = 100 mg/ kg ATE [Dermal] = 1100 mg/kg	[1]
neodecanoic acid, cobalt salt	REACH #: 01-2119970733-31 EC: 248-373-0 CAS: 27253-31-2	≤0.30	Acute Tox. 4, H302 Skin Sens. 1, H317 STOT RE 1, H372 (gastrointestinal tract) (oral) Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 1098 mg/ kg	[1] [2]

English (GB)	Denmark	3/19

Code : 00322216

Date of issue/Date of revision

: 23 November 2022

SIGMADUR ONE GREY 5177

SECTION 3: Composition/information on ingredients

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.

Туре

[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

4.1 Description of first aid measures

4.1 Description of mot did n	
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 recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
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.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects Eye contact : No known significant effects or critical hazards. Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. **Skin contact** : Defatting to the skin. May cause skin dryness and irritation. Ingestion : Can cause central nervous system (CNS) depression. **Over-exposure signs/symptoms** Eye contact : No specific data. Inhalation : Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness Skin contact Adverse symptoms may include the following: irritation dryness cracking Ingestion : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

English (GB)	Denmark	4/19

Date of issue/Date of revision : 23 November 2022 7
d measures
: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
: No specific treatment.
nting measures
: Use dry chemical, CO ₂ , water spray (fog) or foam.

5.2 Special hazards arising from the substance or mixture

Unsuitable extinguishing : Do not use water jet.

media

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 sulfur oxides metal oxide/oxides
5.3 Advice for firefighters	
Special precautions 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 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 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.
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".
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 environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

English (GB) Denmark 5/19		Denmark	5/19
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2020/878	
Code : 003222 SIGMADUR ONE GRE	
SECTION 6: Acc	idental release measures
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. Alternative or if water-insoluble, absorb with an inert dry material and place in an appropriate wast 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 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 non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth at place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to othe 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.

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). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe 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.

Code : 00322216	Date of issue/Date of revision	: 23 November 2022
SIGMADUR ONE GREY 5177		

SECTION 7: Handling and storage

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

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).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values				
1-methoxy-2-propanol	Working Environment Authority (Denmark, 11/2021). [1-methoxy- 2-propanol] Absorbed through skin. TWA: 185 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.				
2-ethylhexanoic acid, zirconium salt	Working Environment Authority (Denmark, 11/2021). [Compounds of zirconium] TWA: 5 mg/m ³ , (calculated as Zr) 8 hours.				
neodecanoic acid, cobalt salt	Working Environment Authority (Denmark, 11/2021). [Inorganic compounds of cobalt] Carcinogen. TWA: 0.01 mg/m ³ , (calculated as Co) 8 hours.				
procedures Standard EN 689 by inhalation to o strategy) Europe application and u	d be made to monitoring standards, such as the following: European 9 (Workplace atmospheres - Guidance for the assessment of exposure chemical agents for comparison with limit values and measurement ean Standard EN 14042 (Workplace atmospheres - Guide for the use of procedures for the assessment of exposure to chemical and b) European Standard EN 482 (Workplace atmospheres - General				

of hazardous substances will also be required.

requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination

DNELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Hydrocarbons, 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%)	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/m ³	General population	
	DNEL	Long term Dermal	26 mg/kg bw/day	General population	
	DNEL	Long term Oral	26 mg/kg bw/day	General population	
1-methoxy-2-propanol	DNEL	Long term Oral	33 mg/kg bw/day	General population	
	DNEL DNEL	Long term Inhalation Long term Dermal	43.9 mg/m³ 78 mg/kg bw/day	General population General population	
English (GB)			Denmark		7/19

Code : 00322216 SIGMADUR ONE GREY 5177 Date of issue/Date of revision

: 23 November 2022

SECTION 8: Exposure controls/personal protection

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		DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemic
		DNEL	Long term Inhalation	369 mg/m³	Workers	Systemic
		DNEL	Short term Inhalation	553.5 mg/m³	Workers	Local
		DNEL	Short term Inhalation	553.5 mg/m ³	Workers	Systemic
	2-ethylhexanoic acid, zirconium salt	DNEL	Long term Inhalation	2.5 mg/m ³	General population	Systemic
		DNEL	Long term Oral	2.5 mg/kg bw/day	General population	Systemic
		DNEL	Long term Dermal	3.25 mg/kg bw/day	General population	Systemic
		DNEL	Long term Inhalation	5 mg/m ³	Workers	Systemic
		DNEL	Long term Dermal	6.49 mg/kg bw/day	Workers	Systemic
	calcium bis(2-ethylhexanoate)	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	0.58 mg/m ³	General population	Systemic
		DNEL	Long term Inhalation	2.351 mg/m ³	Workers	Systemic
	butanone oxime	DMEL	Long term Oral	1.6 µg/kg bw/day	General population	Systemic
		DMEL	Long term Dermal	4 µg/kg bw/day	Workers	Systemic
		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/m³	General population	Local
		DNEL	Long term Inhalation	0.9 mg/m³	Workers	Local
	neodecanoic acid, cobalt salt	DNEL	Long term Oral	32 µg/kg bw/day	General population	Systemic
		DNEL	Long term Inhalation	43 µg/m³	General population	Local
		DNEL	Long term Inhalation	273.2 µg/m³	Workers	Local

PNECs

Product/ingredient name	Туре	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
neodecanoic acid, cobalt salt	-	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** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below controls 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 : Wash hands, forearms and face thoroughly after handling chemical products, before **Hygiene measures** 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 evewash stations and safety showers are close to the workstation location. **Eye/face protection** : Chemical splash goggles. Use eye protection according to EN 166. Denmark 8/19 English (GB)

Conforms to Regulation (EC) 2020/878	No.	1907/2006 (REACH), Annex II, as amended by Comm	nission Regulation (EU)
Code : 00322216 SIGMADUR ONE GREY 5177		Date of issue/Date of revision	: 23 November 2022
SECTION 8: Exposure	e c	ontrols/personal protection	
Skin protection			
Hand protection	:	Chemical-resistant, impervious gloves complying with a worn at all times when handling chemical products if a is necessary. Considering the parameters specified by during use that the gloves are still retaining their protect noted that the time to breakthrough for any glove mate glove manufacturers. In the case of mixtures, consisting protection time of the gloves cannot be accurately esting frequently repeated contact may occur, a glove with a (breakthrough time greater than 480 minutes according When only brief contact is expected, a glove with a pro- (breakthrough time greater than 30 minutes according The user must check that the final choice of type of glove product is the most appropriate and takes into account as included in the user's risk assessment.	risk assessment indicates this y the glove manufacturer, check ctive properties. It should be rial may be different for different ng of several substances, the mated. When prolonged or protection class of 6 g to EN 374) is recommended. otection class of 2 or higher to EN 374) is recommended. ove selected for handling this
Gloves	:	For prolonged or repeated handling, use the following	
		Recommended: neoprene, natural rubber (latex), butyl	rudder, nitriie rudder
Body protection	:	Personal protective equipment for the body should be being performed and the risks involved and should be handling this product. When there is a risk of ignition f static protective clothing. For the greatest protection fr should include anti-static overalls, boots and gloves. F 1149 for further information on material and design rec	approved by a specialist before from static electricity, wear anti- rom static discharges, clothing Refer to European Standard EN
Other skin protection		Appropriate footwear and any additional skin protection based on the task being performed and the risks involv a specialist before handling this product.	
Respiratory protection	:	Respirator selection must be based on known or antici hazards of the product and the safe working limits of the workers are exposed to concentrations above the expo- appropriate, certified respirators. Use a properly fitted complying with an approved standard if a risk assessme Wear a respirator conforming to EN140. Filter type: of particulate filter P3	he selected respirator. If osure limit, they must use , air-purifying or air-fed respirator nent indicates this is necessary.
Environmental exposure controls	:	Emissions from ventilation or work process equipment they comply with the requirements of environmental pr cases, fume scrubbers, filters or engineering modificat will be necessary to reduce emissions to acceptable le	otection legislation. In some ions to the process equipment

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

English (GB)	Denmark	9/19
boiling range		
Initial boiling point and	: >37.78°C	
Melting point/freezing point	: May start to solidify at the following temperature: -53.5°C (-64.3°F) data for the following ingredient: nonane. Weighted average: -66.8	
Odour threshold	: Not available.	
Odour	: Aromatic. [Slight]	
Colour	: Grey.	
Physical state	: Liquid.	
<u>Appearance</u>		

Code : 00322216 DIGMADUR ONE GREY 5177		Date of issue/I	Date of re	evision	: 23 November 2022
SECTION 9: Physical a	nd	chemical properties			
Flammability	: 1	Not available.			
Upper/lower flammability or explosive limits	: (Greatest known range: Lower: 1	.48% Up	oper: 13.74%	(1-methoxy-2-propanol)
Flash point	: (Closed cup: 33°C			
Auto-ignition temperature	:				
	Γ	Ingredient name	°C	°F	Method
		Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	>230	>446	
Decomposition temperature	: 3	Stable under recommended sto	rage and	handling cond	ditions (see Section 7).
рН	: 1	Not applicable. insoluble in wate	er.		
Viscosity	: 1	Kinematic (40°C): >21 mm²/s			
Solubility(ies)	1				
Media		Result			
cold water		Not soluble			

water

Vapour pressure

		Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50		
			mm Hg	kPa	Method	mm Hg	kPa	Method
		1-methoxy-2-propanol	8.5	1.1				
Evaporation rate	:	Highest known value 0.62compared with b			xy-2-propanol)	Weight	ed avera	ge:
Relative density	:	1.14						
Vapour density	:	Highest known value	e: 4.4 (Air	= 1) (n	ionane). Weig	hted ave	erage: 3.7	4 (Air = 1)
Explosive properties	:	The product itself is vapour or dust with a			t the formation	of an ex	plosible n	nixture of
Oxidising properties	:	Product does not pre	esent an o	xidizing	ı hazard.			
Particle characteristics								
Median particle size	:	Not applicable.						
9.2 Other information								
No additional information.								

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 hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
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.

English (GB)	Denmark	10/19
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Code : 00322216 SIGMADUR ONE GREY 5177	Date of issue/Date of revision	: 23 November 2022				
SECTION 10: Stability and reactivity						
•	from the following materials to prevent stron jents, strong alkalis, strong acids.	g exothermic reactions:				

10.6 Hazardous : Depending on conditions, decomposition products may include the following materials: carbon oxides sulfur oxides metal oxide/oxides

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	LD50 Oral	Rat	>15000 mg/kg	-
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, zirconium salt	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
butanone oxime	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-
neodecanoic acid, cobalt salt	LD50 Oral	Rat - Female	1098 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Conclusion/Summary	
Skin	: Т

: There are no data available on the mixture itself.

- : There are no data available on the mixture itself.
- **Respiratory** : There are no data available on the mixture itself.

Sensitisation

Eyes

Product/ingred	ent name	Route of exposure	Species	Result
neodecanoic acid, cobalt sal	t	skin	Mouse	Sensitising
Conclusion/Summary				
Skin	: There are no data avai	lable on the mixture	e itself.	
Respiratory	: There are no data avai	lable on the mixture	e itself.	
Mutagenicity				
Conclusion/Summary	: There are no data avai	lable on the mixture	e itself.	
Carcinogenicity				
Conclusion/Summary	: There are no data avai	lable on the mixture	e itself.	
Reproductive toxicity				
Conclusion/Summary	: There are no data avai	lable on the mixture	e itself.	
Teratogenicity				
Conclusion/Summary	: There are no data avai	lable on the mixture	e itself.	
Specific target organ toxicity (single exposure)				

Code : 00322216 SIGMADUR ONE GREY 5177 Date of issue/Date of revision

: 23 November 2022

SECTION 11: Toxicological information

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%)	Category 3	-	Narcotic effects
1-methoxy-2-propanol	Category 3	-	Narcotic effects
butanone oxime	Category 1 Category 3		upper respiratory tract Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Category 1	inhalation	central nervous system (CNS)
butanone oxime neodecanoic acid, cobalt salt	Category 2 Category 1	-	blood system gastrointestinal tract
	Category	oral	gastrointestinar tract

Aspiration hazard

Product/ingredient name	Result
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
(2-25%)	ASPIRATION HAZARD - Calegory T
Information on likely : Not available.	

routes of exposure

Potential acute health effects

Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Ingestion		Can cause central nervous system (CNS) depression.
Skin contact		Defatting to the skin. May cause skin dryness and irritation.
Eye contact		No known significant effects or critical hazards.
		ical, chemical and toxicological characteristics
Inhalation		Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Ingestion	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation dryness cracking
Eye contact	:	No specific data.
Delayed and immediate effe	<u>cts</u>	s as well as chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.

Code : 00322216	Date of issue/Date of revision	: 23 November 2022
SIGMADUR ONE GREY 5177		

SECTION 11: Toxicological information

<u>Long term exposure</u>		
Potential immediate	ot available.	
effects		
Potential delayed effects	ot available.	
Potential chronic health effe		
Not available.		
Conclusion/Summary	ot available.	
General	auses damage to organs through prolonged or repeated exposure. Prolonged or peated contact can defat the skin and lead to irritation, cracking and/or dermatitis.	
Carcinogenicity	ay cause cancer. Risk of cancer depends on duration and level of exposure.	
Mutagenicity	o known significant effects or critical hazards.	
Reproductive toxicity	o known significant effects or critical hazards.	
Other information	ot available.	
Drelenged or repeated center	dry akin and acuse irritation. Conding and grinding dusts may be harmful if inhold	J

Prolonged or repeated contact may dry skin and cause irritation. 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 vapour/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.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

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%)	Chronic NOEC 0.097 mg/l Fresh water	Daphnia	21 days
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
2-ethylhexanoic acid, zirconium salt	Acute LC50 >100 mg/l	Fish	96 hours

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

12.2 Persistence and degradability

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

Conclusion/Summary	: There are	no data available on	the mixture itself.
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	English (GB)	Denmark	13/19
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Code : 00322216	Date of issue/Date of revision	: 23 November 2022
SIGMADUR ONE GREY 5177		

SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	-	Readily
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	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)	: Not available.
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.

12.6 Endocrine disrupting properties

Not available.

12.7 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.

Hazardous waste

European waste catalogue (EWC)

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.	
English (GB)	Denmark	14/19

Code : 00322216	Date of issue/Date of revision	: 23 November 2022	
SIGMADUR ONE GREY 5177			

SECTION 13: Disposal considerations

Type of packaging	European waste catalogue (EWC)	
Container	15 01 06 mixed packaging	
Special precautions	residues may create a highly flammable of Do not cut, weld or grind used containers	

14. Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID 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	III	III	III	III
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

Additional information

ADR/RID	: None identified.
Tunnel code	: (D/E)
ADN	: The product is only regulated as an environmentally hazardous substance when transported in tank vessels.
IMDG	: None identified.
ΙΑΤΑ	: None identified.
14.6 Special preduser	cautions for : 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.

14.7 Maritime transport in : Not applicable. **bulk according to IMO instruments**

Code : 00322216 SIGMADUR ONE GREY 5177 Date of issue/Date of revision

: 23 November 2022

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Restricted to professional users.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

<u>Danger criteria</u>

	Category	
	P5c	

Product/ingredient name	List name	Name on list	Classification	Notes
butanone oxime	Denmark Carcinogenic Chemicals	2-Butanonoxim	Listed	-
neodecanoic acid, cobalt salt	Denmark Carcinogenic Chemicals	Cobaltforbindelser	Listed	-

National regulations Product registration number	:	PR-2359923
Danish fire class	1	II-1
Denmark – Cancer risks	:	National Working Environment Authorities Ordinance on Measures to Prevent Cancer Risks during Work with Substances and Preparations is applicable.
MAL-code	1	2-1
Protection based on MAL	:	According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:
		General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/ protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required. In all spraying operations in which there is return spray, the following must be worn:
		respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Code : 00322216 Date of issue/Date of revision : 23 November 2022 **SIGMADUR ONE GREY 5177** SECTION 15: Regulatory information MAL-code: 2-1 Application: When using scraper or knife, brush, roller, etc, for pre- and posttreatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin. - Gas filter mask must be worn. When spraying in existing* spray booths, if the operator is outside the spray zone. - Air-supplied half mask, arm protectors and eye protection must be worn. During non-atomising spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. - Air-supplied half mask and eye protection must be worn. During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth. - Air-supplied half mask, eye protection, coveralls and hood must be worn. Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone. Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn **Caution** The regulations contain other stipulations in addition to the above. *See Regulations. **Restrictions on use** : Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work. List of undesirable : Not listed substances : Waste containers must be labeled: Contains a substance or substances regulated by **Carcinogenic waste** Danish working environment legislation on cancer risks. : No Chemical Safety Assessment has been carried out. 15.2 Chemical safety assessment

Code	: 00322216	Date of issue/Date of revision	: 23 November 2022

SIGMADUR ONE GREY 5177

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

PBT = Persistent, Bioaccumulative and Toxic

vPvB = Very Persistent and Very Bioaccumulative

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

IMDG = International Maritime Dangerous Goods

IATA = International Air Transport Association

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Carc. 1B, H350	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.
H302	Harmful 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.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.
H361d	Suspected of damaging 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.
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 [CLP/GHS]

English (GB)	Denmark	18/19
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPE	ATED EXPOSURE -
Skin Sens. 1	SKIN SENSITISATION - Category 1	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Repr. 2	REPRODUCTIVE TOXICITY - Category 2	
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3	
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Ca	itegory 1
Carc. 1B	CARCINOGENICITY - Category 1B	
Asp. Tox. 1	ASPIRATION HAZARD - Category 1	
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD -	Category 3
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD -	
Acute Tox. 4	ACUTE TOXICITY - Category 4	
Acute Tox. 3	ACUTE TOXICITY - Category 3	

Code : 00322216 SIGMADUR ONE GREY 5177	Date of issue/Date of revision : 23 November 2022
SECTION 16: Other information	
STOT RE 2	Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 1	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
STOT SE 3	Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

<u>History</u>	
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Date of previous issue	: 23 November 2022
Prepared by	: EHS
Version	: 9.01

<u>Disclaimer</u>

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