# SAFETY DATA SHEET

**SIGMADUR ONE APM CREAM 3124** 



Date of issue 3 June 2024

Version 15

# 1. Product and company identification

	· ·
Product name	: SIGMADUR ONE APM CREAM 3124
Product code	: 00345666
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's details	: ₱₽G PMC Japan Co., Ltd., 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe 652-0803 Japan; Tel: +81-78-574-2777
Emergency telephone number	: 078 574 2777

# 2. Hazards identification

	<ul> <li>LAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 3 HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD - Category 3</li> </ul>
<u>GHS label elements</u> Hazard pictograms	
Hazard pictograms	
Hazard pictograms	: Danger
Hazard pictograms	: Danger : Mammable liquid and vapor. May cause an allergic skin reaction.
Hazard pictograms	: Flammable liquid and vapor. May cause an allergic skin reaction. Causes serious eye irritation.
Hazard pictograms	<ul> <li>Fammable liquid and vapor.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> </ul>
Hazard pictograms	<ul> <li>Fammable liquid and vapor. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.</li> </ul>
Hazard pictograms	<ul> <li>Fammable liquid and vapor.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> </ul>

Product code 00345666		Date of issue 3 June 2024 Version 15				
Product name SIGMADUR ONE APM CREAM 3124						
2. Hazards identifi	Ca	ation				
		nervous system (CNS), respiratory organs) Harmful to aquatic life with long lasting effects.				
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. Wear respiratory 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. Avoid release to the environment. 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.				
<ul> <li>Response</li> <li>IF exposed or concerned: Get medical advice or attention. IF INHALED: Reperson to fresh air and keep comfortable for breathing. Call a POISON CEI doctor if you feel unwell. If experiencing respiratory symptoms: Call a POIS CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contamic clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if presen easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.</li> </ul>						
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.				
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.				

# 3. Composition/information on ingredients

#### Substance/mixture

: Mixture

#### CAS number/other identifiers

CAS number	: Not applicable.
CSCL number	: Not available.

Ingredient name	%	CAS number	CSCL
Naphtha (petroleum), hydrotreated heavy	15 - <20	64742-48-9	Not available.
Titanium dioxide (excluding nanoparticle)	15 - <20	13463-67-7	1-558; 5-5225
Naphtha (petroleum), hydrodesulfurized heavy	7 - <10	64742-82-1	Not available.
barium sulfate	3 - <5	7727-43-7	1-89
Propylene glycol monomethyl ether	1 - <2	107-98-2	2-404; 7-97
n-Nonane	1 - <2	111-84-2	2-9
2-ethylhexanoic acid, zirconium salt	1 - <2	22464-99-9	2-615
Ethanol	0.2 - <0.5	64-17-5	2-202
calcium bis(2-ethylhexanoate)	0.2 - <0.5	136-51-6	2-611
Butan-2-one oxime	0.1 - <0.2	96-29-7	2-546
Silica	0.1 - <0.2	7631-86-9	1-548
Xylene	0.1 - <0.2	1330-20-7	3-3; 3-60
cobalt(II) 2-ethylhexanoate	0.1 - <0.2	136-52-7	2-615
n-Octane	0.1 - <0.2	111-65-9	2-8

# 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.

Product name SIGMADUR ONE APM CREAM 3124

# 3. Composition/information on ingredients

SUB codes represent substances without registered CAS Numbers.

## 4. First aid measures

<b>Description of necessary</b>	<u>first aid measures</u>
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	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
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	s/effects, acute and delayed
Potential acute health ef	fects
Eye contact	: Causes serious eye irritation.
Inhalation	: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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.
Over-exposure signs/sy	nptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	<ul> <li>Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma reduced fetal weight increase in fetal deaths skeletal malformations</li> </ul>
Skin contact	<ul> <li>Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations</li> </ul>
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate m	edical attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

## 4. First aid 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.

See toxicological information (Section 11)

5. Fire-fighting measures				
Extinguishing media				
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.			
Unsuitable extinguishing media	: Do not use water jet.			
Specific hazards arising from the chemical	: Flammable liquid and vapor. 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 thermal decomposition products	: Decomposition products may include the following materials: carbon 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.			

# 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

#### Methods and materials for containment and cleaning up

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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.

# 7. Handling and storage

Precautions for safe handling	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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.				
Conditions for safe storage	: 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. See Section 10 for incompatible materials before handling or use.				

# 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
₩tanium dioxide (excluding nanoparticle)	Japan Society for Occupational Health (Japan, 5/2023). [titanium dioxide] OEL-M: 1.5 mg/m <sup>3</sup> , (as Ti) 8 hours. Form: Respirable particulate matter OEL-M: 2 mg/m <sup>3</sup> , (as Ti) 8 hours. Form: Total particulate matter Japan Society for Occupational Health (Japan, 5/2023). [titanium dioxide (nanoparticle)] OEL-M: 0.3 mg/m <sup>3</sup> 8 hours. Form: nanoparticle
n-Nonane	Japan Society for Occupational Health (Japan, 5/2023). OEL-M: 1050 mg/m <sup>3</sup> 8 hours. OEL-M: 200 ppm 8 hours.
Xylene	Industrial Safety and Health Act (Japan, 6/2020). [xylene] TWA: 50 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2023). OEL-M: 50 ppm 8 hours. OEL-M: 217 mg/m <sup>3</sup> 8 hours.
cobalt(II) 2-ethylhexanoate	Japan Society for Occupational Health (Japan, 5/2023). [Cobalt and compounds] Skin sensitizer. Inhalation sensitizer. OEL-M: 0.05 mg/m <sup>3</sup> , (as Co) 8 hours.
n-Octane	Japan Society for Occupational Health (Japan, 5/2023). OEL-M: 300 ppm 8 hours. OEL-M: 1400 mg/m <sup>3</sup> 8 hours.
Recommended monitoring : Reference should be ma procedures national guidance docun substances will also be r	nents for methods for the determination of hazardous
controls or other engineering cor below any recommende	ventilation. Use process enclosures, local exhaust ventilation trols to keep worker exposure to airborne contaminants d or statutory limits. The engineering controls also need to concentrations below any lower explosive limits. Use on equipment.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before<br/>eating, smoking and using the lavatory and at the end of the working period.<br/>Appropriate techniques should be used to remove potentially contaminated clothing.<br/>Contaminated work clothing should not be allowed out of the workplace. Wash<br/>contaminated clothing before reusing. Ensure that eyewash stations and safety<br/>showers are close to the workstation location.

## 8. Exposure controls/personal protection

Eye protection	: Chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	<ul> <li>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.</li> </ul>
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.

# 9. Physical and chemical properties

<b>Appearance</b>				
Physical state	: Liquid.			
Color	: Yellow.			
Odor	: Aromatic.			
Boiling point	: >37.78°C (>100°F)			
Flash point	: Closed cup: 44°C (1	: Closed cup: 44°C (111.2°F)		
Relative density	: 1.13			
	Media	Result		
Solubility(ies)	: cold water	Not soluble		

# **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<br/>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<br/>products.

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10. Stability and r	eactivity			
Incompatible materials	: Keep away from the follo oxidizing agents, strong	wing materials to prevent strong exothe alkalis, strong acids.	ermic reactions:	
Hazardous decomposition products		s, decomposition products may include s sulfur oxides metal oxide/oxides	the following	

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Maphtha (petroleum), hydrotreated heavy	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>6 g/kg	-
Titanium dioxide (excluding nanoparticle)	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
, ,	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Naphtha (petroleum), hydrodesulfurized heavy	LD50 Oral	Rat	>5000 mg/kg	-
barium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Propylene glycol monomethyl ether	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
n-Nonane	LC50 Inhalation Gas.	Rat	3200 ppm	4 hours
	LC50 Inhalation Vapor	Rat	16790 mg/m <sup>3</sup>	4 hours
2-ethylhexanoic acid, zirconium salt	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
Ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	17100 mg/kg	-
	LD50 Oral	Rat	7 g/kg	-
Butan-2-one oxime	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-
Silica	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat - Male,	>5000 mg/kg	-
		Female		
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
cobalt(II) 2-ethylhexanoate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	3129 mg/kg	-
n-Octane	LC50 Inhalation Gas.	Rat	25260 ppm	4 hours
	LC50 Inhalation Vapor	Rat	118000 mg/m <sup>3</sup>	4 hours

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Kylene	Skin - Moderate irritant	Rabbit		24 hours 500 mg	-

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

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

Name	Category	Route of exposure	Target organs
Aphtha (petroleum), hydrotreated heavy	Category 3	-	Respiratory tract irritation
Naphtha (petroleum), hydrodesulfurized heavy	Category 3	-	Narcotic effects
Propylene glycol monomethyl ether	Category 3	-	Narcotic effects
n-Nonane	Category 2	-	central nervous system (CNS)
	Category 3		Respiratory tract irritation
	Category 3		Narcotic effects
Ethanol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Butan-2-one oxime	Category 3	-	Narcotic effects
Silica	Category 3	-	Respiratory tract irritation
Xylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory organs
	Category 3		Narcotic effects
n-Octane	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

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

Name	Category	Route of exposure	Target organs
✔Itanium dioxide (excluding nanoparticle)	Category 1	-	respiratory organs
Naphtha (petroleum), hydrodesulfurized heavy	Category 1	-	central nervous system (CNS)
barium sulfate	Category 1	-	respiratory organs
Ethanol	Category 1	-	liver
	Category 2		central nervous system (CNS)
Butan-2-one oxime	Category 1	-	haematopoietic system
Silica	Category 1	-	immune system, kidneys,
Xylene	Category 1	-	respiratory organs nervous system, respiratory organs

#### **Aspiration hazard**

Name	Result
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1
Naphtha (petroleum), hydrodesulfurized heavy	ASPIRATION HAZARD - Category 1
n-Nonane	ASPIRATION HAZARD - Category 1
Xylene	ASPIRATION HAZARD - Category 1
n-Octane	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Not available.
Potential acute health effect	<u>ts</u>	
Eye contact	:	Causes serious eye irritation.
Inhalation	:	May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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.
Symptoms related to the ph	iys	ical, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma 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 effect	ts	and also chronic effects from short and long term exposure
Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	4	Not available.
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Potential chronic health effects

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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 APM CREAM 3124	N/A	44780.8	N/A	348.5	N/A
barium sulfate	N/A	2500	N/A	N/A	N/A
Propylene glycol monomethyl ether	5200	13000	N/A	11	N/A
n-Nonane	N/A	N/A	N/A	16.79	N/A
Ethanol	7000	17100	N/A	124.7	N/A
Butan-2-one oxime	500	1100	N/A	N/A	N/A
Xylene	4300	1700	N/A	11	N/A
cobalt(II) 2-ethylhexanoate	3129	N/A	N/A	N/A	N/A
n-Octane	N/A	N/A	25260	118	N/A

#### Other information

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 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.

# **12. Ecological information**

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Product/ingredient name	Result	Species	Exposure
Ttanium dioxide (excluding nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
Propylene glycol monomethyl ether	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
Ethanol	Acute EC50 7640 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
Silica	Acute EC50 2.2 g/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 >10000 mg/l Chronic NOEC 12.5 mg/l Fresh water	Fish Daphnia - <i>Daphnia magna -</i> Neonate	96 hours 21 days

#### Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Ethanol	-	-	Readily
Xylene	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Propylene glycol monomethyl ether	<1	-	Low
n-Nonane	5.65	-	High
Ethanol	-0.35	-	Low
Butan-2-one oxime	0.63	5.01	Low
Xylene	3.12	7.4 to 18.5	Low
n-Octane	5.18	-	High

<u>Mobility in soil</u>	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.
Other adverse effects	: No known significant effects or critical hazards.

# 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 14. Transport information

	UN	IMDG	ΙΑΤΑ
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.

Date of issue 3 June 2024

# 14. Transport information

#### Additional information

UN	: 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.

# Transport in bulk according : Not applicable. to IMO instruments

# 15. Regulatory information

#### Fire Service Law

Category	Substance name/Type	Danger category	Signal word	Designated quantity
Category IV	Class II petroleums	111	Flammable - Keep Fire Away	1000 L

#### Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%	Status	Reference number
Nonane	1.2	Class 2	791

#### **Industrial Safety and Health Act**

#### Ordinance on the Prevention of the Hazard due to Specified Chemical Substances

None of the components are listed.

#### Substance(s) requiring labelling

Ingredient name	%	Status	Reference number
Titanium(IV) oxide	≥10 - ≤20	Listed	191
Petroleum naphtha	≤10	Listed	330
Propylene glycol monomethyl ether	≤10	Listed	496
Zirconium compounds	≤10	Listed	313
Nonane	≤10	Listed	432
Ethanol	≤10	Listed	61
Crystalline silica	≤10	Listed	165-2
Cobalt and its compounds	≤10	Listed	172

#### **Chemicals requiring notification**

Ingredient name	%	Status	Reference number
√ tanium(IV) oxide	≥10 - ≤20	Listed	191
Petroleum naphtha	≤10	Listed	330
Propylene glycol monomethyl ether	≤10	Listed	496
Zirconium compounds	≤10	Listed	313
Nonane	≤10	Listed	432
Ethanol	≤10	Listed	61
Crystalline silica	≤10	Listed	165-2
Xylene	≤10	Listed	136
Cobalt and its compounds	≤10	Listed	172

Japan F

# 15. Regulatory information

Carcinogens based on Article 577-2 of the Ordinance on ISH

Ingredient name	%		Reference number
sílicon dioxide	≤10	Listed	-

#### Mutagen

None of the components are listed.

Corrosive liquid	: Not listed
Occupational Safety and Health Law	: Inflammable, Combustible
Regulations on the Prevention of Tetraalkyl Lead Poisoning	: Not listed
Harmful Substances Subject to Obtaining Permission for Manufacturing	: Not listed
Harmful Substances, Prohibited for Manufacturing	: Not listed
ISHL Enforcement Order Appendix 1 - Dangerous Substances	: Inflammable, Combustible
Lead regulation Organic solvents poisoning prevention	<ul><li>Not listed</li><li>Not applicable.</li></ul>

#### **Poisonous and Deleterious Substances**

None of the components are listed.

#### **Chemical Substances Control Law (CSCL)**

Ingredient name	%	Status	Reference number
1,2,4-Trimethylbenzene	≤10	Priority assessment	49
Butan-2-one oxime	≤10	Priority assessment	262
Xylene	≤10	Priority assessment	125
1,3,5-Trimethylbenzene	≤10	Priority assessment	201
n-Hexane	≤10	Priority assessment	3
Cumene	≤10	Priority assessment	126
Ethylbenzene	≤10	Priority assessment	50
Benzene	≤10	Priority assessment	45
Toluene	≤10	Priority assessment	46
Hydroquinone	≤10	Priority assessment	203

High Pressure Gas Control : Not available. Law

## **Explosives Control Law**

None of the components are listed.

Law concerning prevention : Not available. of pollution of the ocean

# 15. Regulatory information

#### Maritime Safety Law

Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

#### **Container class**

None of the components are listed.

Road law : Not availa	
· apair inventory . At least of	ble.
Japan inventory : At least or	ne component is not listed.
List of Specially Controlled : Not listed Industrial Waste	
JSOH Carcinogen : Group 2B	

## 16. Other information

#### **History**

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Date of issue/Date of revision	: 3 June 2024
Date of previous issue	: 3/1/2022
Version	: 15
Prepared by	: EHS
Key to abbreviations	<ul> <li>ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway</li> <li>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road</li> <li>ATE = Acute Toxicity Estimate</li> <li>BCF = Bioconcentration Factor</li> <li>GHS = Globally Harmonized System of Classification and Labelling of Chemicals</li> <li>IATA = International Air Transport Association</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>LogPow = logarithm of the octanol/water partition coefficient</li> <li>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail</li> <li>UN = United Nations</li> </ul>

Indicates information that has changed from previously issued version.

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