SAFETY DATA SHEET

Date of issue/Date of revision

: 20 June 2024

Version

: 2.01

Egypt



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

1.1 Product identifier		
Product name	:	NOVAGUARD 4801 CATALYST
Product code	;	000001090258
Other means of identification	n	
00346208; 00673779		

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

Sigma Paints Egypt Villa#8, street 279 New Maadi, Cairo Egypt Tel: 00202 516 223 797	
Fax: 00202 516 223 797 Fax: 00202 516 38 04 e-mail address of person responsible for this SDS	: PS.ACEMEA@ppg.com
1.4 Emergency telephone	: +20 2 6840902

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] Org. Perox. C, H242 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1B, H350

STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 3, H412

number

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.

2.2 Label elements

English (GB)

Code : 000001090258 NOVAGUARD 4801 CATALYS	
SECTION 2: Hazards	identification
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Heating may cause a fire. Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause cancer. May cause 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. Keep only in original packaging.
Response	: IF exposed or concerned: Get medical advice or attention.
Storage	: Store in a well-ventilated place.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P234, P308 + P313, P403, P501
Hazardous ingredients	 α, α-dimethylbenzyl hydroperoxide 2-Butanone, peroxide tert-butyl perbenzoate cumene
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	ents
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 vPv
Other hazards which do not result in classification	: Temperature control may be required. Hazardous decomposition may occur. Prolonged or repeated contact may dry skin and cause irritation.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
α, α-dimethylbenzyl hydroperoxide	REACH #: 01-2119475796-19 EC: 201-254-7 CAS: 80-15-9 Index: 617-002-00-8	≥10 - ≤21	Org. Perox. E, H242 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 2, H411	ATE [Oral] = 382 mg/ kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (dusts and mists)] = 0.5 mg/l Skin Corr. 1B, H314: $C \ge 10\%$ Skin Irrit. 2, H315: 3% $\le C < 10\%$ Eye Dam. 1, H318: C $\ge 3\%$ Eye Irrit. 2, H319: 1% $\le C < 3\%$ STOT SE 3, H335: C $\ge 1\%$	[1]
2-Butanone, peroxide	EC: 215-661-2 CAS: 1338-23-4	≥10 - ≤25	Org. Perox. D, H242 Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318	ATE [Oral] = 470 mg/ kg	[1] [2]
tert-butyl perbenzoate	REACH #: 01-2119513317-46 EC: 210-382-2 CAS: 614-45-9	≥5.0 - ≤10	Org. Perox. C, H242 Acute Tox. 4, H332 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400	ATE [Inhalation (dusts and mists)] = 1.5 mg/l M [Acute] = 1	[1]
cumene	REACH #: 01-2119473983-24 EC: 202-704-5 CAS: 98-82-8 Index: 601-024-00-X	≥1.0 - ≤3.5	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 See Section 16 for the full text of the H statements declared above.	-	[1] [2]

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.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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SECTION 4: First aid measures

4.1 Description of first aid m	easures
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
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

4.2 Most important symp	toms and effects, both acute and delayed
Potential acute health e	ffects
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
<u>Over-exposure signs/sy</u>	mptoms
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any imm	ediate medical attention and special treatment needed
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

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5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.

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SECTION 5: Firefighting measures

5.2 Special hazards arising from the substance or mixture		
Hazards from the substance or mixture	: Runoff to sewer may create fire or explosion hazard. This material increases the risk of fire and may aid combustion. Heating may cause a fire. May re-ignite itself after fire is extinguished. Hazardous decomposition may occur. In a fire or if heated, a pressure increase will occur and the container may burst. 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	
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. 	
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, pro	ective 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. Do not breathe 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	ontainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid contamination with reactive substances. Dilute with water and mop up if water-soluble. Do not absorb in sawdust or other combustible material. It may lead to a fire risk when it dries out. 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 the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid contamination with reactive substances. Do not absorb in sawdust or other combustible material. It may lead to a fire risk when it dries out. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product.

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SECTION 6: Accidental release measures

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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.

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. 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. Keep away from clothing, incompatible materials and combustible materials. Temperature control may be required. Empty containers retain product residue and can be hazardous. Do not reuse container.
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	: To avoid the risk of formation of shock-sensitive crystals or loss of stability, it is important to store the product within the recommended temperature range. Temperature control may be required. 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 at temperatures not exceeding 20°C/68°F. Store locked up. Eliminate all ignition sources. Separate from reducing agents and combustible materials. Keep away from rust, iron and copper. Keep container tightly closed and sealed until ready for use. Prevent product contamination. 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

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

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Product/ingredien	t name	Exposure limit values
2-Butanone, peroxide		ACGIH TLV (United States, 7/2023). C: 0.2 ppm C: 1.5 mg/m ³
cumene		ACGIH TLV (United States, 7/2023). Notes: 1999 Adoption. TWA: 5 ppm 8 hours.
Recommended monitoring procedures	Standard EN 689 by inhalation to c strategy) Europe application and u biological agents requirements for agents) Referen	d be made to monitoring standards, such as the following: European O (Workplace atmospheres - Guidance for the assessment of exposure hemical agents for comparison with limit values and measurement can Standard EN 14042 (Workplace atmospheres - Guide for the lise of procedures for the assessment of exposure to chemical and) European Standard EN 482 (Workplace atmospheres - General the performance of procedures for the measurement of chemical ce to national guidance documents for methods for the determination ostances will also be required.
8.2 Exposure controls		
Appropriate engineering controls	other engineering recommended of vapour or dust co	equate ventilation. Use process enclosures, local exhaust ventilation of g controls to keep worker exposure to airborne contaminants below any r statutory limits. The engineering controls also need to keep gas, oncentrations below any lower explosive limits. Use explosion-proof ment. Use with adequate ventilation.
Individual protection measure	<u>es</u>	
Hygiene measures	eating, smoking a Appropriate tech Contaminated wo contaminated clo	earms and face thoroughly after handling chemical products, before and using the lavatory and at the end of the working period. niques should be used to remove potentially contaminated clothing. ork clothing should not be allowed out of the workplace. Wash othing before reusing. Ensure that eyewash stations and safety se to the workstation location.
Eye/face protection <u>Skin protection</u>	: Chemical splash	goggles and face shield.
Hand protection	worn at all times necessary. Cons during use that th noted that the tim glove manufactur protection time of frequently repeat (breakthrough tim When only brief of (breakthrough tim The user must ch product is the mo	nt, impervious gloves complying with an approved standard should be when handling chemical products if a risk assessment indicates this is sidering the parameters specified by the glove manufacturer, check he gloves are still retaining their protective properties. It should be he to breakthrough for any glove material may be different for different rers. In the case of mixtures, consisting of several substances, the f the gloves cannot be accurately estimated. When prolonged or red contact may occur, a glove with a protection class of 6 ne greater than 480 minutes according to EN 374) is recommended. contact is expected, a glove with a protection class of 2 or higher ne greater than 30 minutes according to EN 374) is recommended. heck that the final choice of type of glove selected for handling this best appropriate and takes into account the particular conditions of use, e user's risk assessment.
	: butyl rubber	
Body protection		ive equipment for the body should be selected based on the task being ne risks involved and should be approved by a specialist before duct.
Other skin protection	based on the tas	vear and any additional skin protection measures should be selected k being performed and the risks involved and should be approved by a handling this product.
Respiratory protection	:	

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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

<u>Appearance</u>								
Physical state	1	Liquid.						
Colour	:	Clear.						
Odour	:	Not available.						
Odour threshold	1	Not available.						
Melting point/freezing point	:	May start to solidify a based on data for the -39.74°C (-39.5°F)						
Initial boiling point and boiling range	:	>37.78°C						
Flammability	:	Not available.						
Upper/lower flammability or explosive limits	:	Greatest known rang	e: Lower:	1% Up	per: 54% (eth	yl acetoa	icetate)	
Flash point	:	Closed cup: Not appl	icable.					
Auto-ignition temperature	:	Ingredient name		°C	°F		Method	
		tert-butyl perbenzoate		93	199.4			
Decomposition temperature		Stable under recomn	nended st	orage a	nd handling co	onditions	(see Sec	tion 7).
рН	:	Not applicable. insolu		-	0		·	,
Viscosity	:	Kinematic (40°C): >2	1 mm²/s					
Solubility/ioo)	1.1							
Solubility(les)								
Media		Result						
		Result Not soluble						
Media cold water Partition coefficient: n-octanol		Not soluble						
Media cold water Partition coefficient: n-octanol water		Not soluble Not applicable.	Vapou	ır Press	sure at 20°C	Vap	our press	sure at 50°
Media cold water Partition coefficient: n-octanol water		Not soluble	Vapou mm Hg		sure at 20°C Method	Vap mm Hg	our press	sure at 50° Method
Media cold water Partition coefficient: n-octanol water		Not soluble Not applicable.			1	mm		1
Media cold water Partition coefficient: n-octanol water Vapour pressure	:	Not soluble Not applicable. Ingredient name cumene	mm Hg	kPa 0.5	Method	mm		sure at 50° Method
Media cold water Partition coefficient: n-octanol water Vapour pressure Evaporation rate	:	Not soluble Not applicable.	mm Hg	kPa 0.5	Method	mm		1
Media cold water Partition coefficient: n-octanol water Vapour pressure Evaporation rate Relative density		Not soluble Not applicable. Ingredient name cumene 0.43 (cumene) comp	mm Hg 3.72032 ared with : 5.4 (Air	kPa 0.5 butyl ac	Method	mm Hg	kPa	Method
Media cold water Partition coefficient: n-octanol water Vapour pressure Evaporation rate Relative density Vapour density	:	Not soluble Not applicable. Ingredient name cumene 0.43 (cumene) comp 1.05 Highest known value	mm Hg 3.72032 ared with : 5.4 (Air 1) not explos	kPa 0.5 butyl ac = 1) (α, iive, but	Method etate α-dimethylber	mm Hg	kPa operoxide	Method
Media cold water Partition coefficient: n-octanol water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties		Not soluble Not applicable. Ingredient name cumene 0.43 (cumene) comp 1.05 Highest known value average: 4.84 (Air = The product itself is r	mm Hg 3.72032 ared with : 5.4 (Air 1) not explos	kPa 0.5 butyl ac = 1) (α, iive, but	Method etate α-dimethylber	mm Hg	kPa operoxide	Method
		Not soluble Not applicable. Ingredient name cumene 0.43 (cumene) comp 1.05 Highest known value average: 4.84 (Air = The product itself is r vapour or dust with a	mm Hg 3.72032 ared with : 5.4 (Air 1) not explos	kPa 0.5 butyl ac = 1) (α, iive, but	Method etate α-dimethylber	mm Hg	kPa operoxide	Method

9.2 Other information

No additional information.

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SECTION 10: Stability and reactivity

10.1 Reactivity	: This product possesses explosive properties but, as packaged, will not detonate or deflagrate rapidly or undergo a thermal explosion.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: temperature increase high temperature Reactions may include the following: hazardous decomposition risk of causing fire
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 decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
α,α-dimethylbenzyl hydroperoxide	LC50 Inhalation Dusts and mists	Rat	1.37 mg/l	4 hours
	LD50 Dermal	Rat	1200 to 1520 mg/ kg	-
	LD50 Oral	Rat	382 mg/kg	-
2-Butanone, peroxide	LC50 Inhalation Gas.	Rat	200 ppm	4 hours
	LC50 Inhalation Vapour	Rat	1440 mg/m ³	4 hours
	LD50 Oral	Rat	470 mg/kg	-
tert-butyl perbenzoate	LD50 Oral	Rat	1012 mg/kg	-
cumene	LC50 Inhalation Vapour	Rat	39000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12.3 g/kg	-
	LD50 Oral	Rat	2260 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
α , α -dimethylbenzyl hydroperoxide	Skin - Visible necrosis	Rabbit	-	24 hours	24 hours

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Sensitisation	
Conclusion/Summary	
Skin	: There are no data available on the mixture itself.

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SECTION 11: Toxicological information

Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxic	ity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
α, α-dimethylbenzyl hydroperoxide cumene	Category 3 Category 3	-	Respiratory tract irritation Respiratory tract irritation
Specific target organ toxicity (repeated exposure)		·

Product/ingredient nameCategoryRoute of
exposureTarget organsα, α-dimethylbenzyl hydroperoxideCategory 2--

Aspiration hazard

Product/ingredient name		Result
cumene		ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	: Not available.	
Potential acute health e	<u>iffects</u>	
Inhalation	: Harmful if inhaled. May caus	e respiratory irritation.
Ingestion	: Harmful if swallowed.	
Skin contact	: Causes severe burns. Defat	ting to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye damage.	
Symptoms related to th	e physical, chemical and toxicolog	ical characteristics
Inhalation	: Adverse symptoms may inclu respiratory tract irritation coughing	ide the following:
Ingestion	: Adverse symptoms may inclu stomach pains	ide the following:
Skin contact	: Adverse symptoms may inclu pain or irritation redness dryness cracking blistering may occur	ide the following:
Eye contact	: Adverse symptoms may inclu pain watering redness	ide the following:
Delayed and immediate	effects as well as chronic effects f	rom short and long-term exposure
<u>Short term exposure</u>		

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SECTION II. TOXICOI		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ct	<u>s</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	May cause 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	:	No known significant effects or critical hazards.
Other information	÷	Not available.

Prolonged or repeated contact may dry skin and cause irritation. 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
α,α-dimethylbenzyl hydroperoxide	Acute EC50 3.1 mg/l Acute LC50 23.4 mg/l Fresh water	Algae Fish - <i>Danio rerio</i> - Embryo	72 hours 96 hours 72 hours
	Chronic NOEC 1 mg/l	Algae	

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

12.2 Persistence and degradability

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
α , α -dimethylbenzyl hydroperoxide	-	-	Not readily

12.3 Bioaccumulative potential

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SECTION 12: Ecological information

Product/ingredient name	LogPow	BCF	Potential
α, α-dimethylbenzyl hydroperoxide	1.6	-	Low
2-Butanone, peroxide	<0.3	-	Low
tert-butyl perbenzoate	3	-	Low
cumene	3.55	35.48	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

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	: The classification of the product may meet the criteria for a hazardous waste.

: The classification of the product may meet the criteria for a 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.

Type of packaging	European waste catalogue (EWC)		
Container	15 01 06 mixed packaging		
Special 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.		

English (GB)	Egypt	12/15

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SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN3103	UN3103	UN3103
14.2 UN proper shipping name	ORGANIC PEROXIDE TYPE C, LIQUID	ORGANIC PEROXIDE TYPE C, LIQUID	ORGANIC PEROXIDE TYPE C, LIQUID
	(Cumyl hydroperoxide, 2-Butanone, peroxide)		
14.3 Transport hazard class(es)	5.2	5.2	5.2
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

ADR/RID	: None identified.
IMDG	: None identified.
IATA	: None identified.

14.6 Special precautions 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 Transport in bulk	: Not applicable.
according to IMO	
instruments	

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

Other national and international regulations.

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Code : 0000010902 NOVAGUARD 4801 CATALY	
SECTION 15: Regul	atory information
15.2 Chemical safety assessment	: No Chemical Safety Assessment has been carried out.
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
Full text of abbreviated H statements	 H226 Flammable liquid and vapour. H242 Heating may cause a fire. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H331 Toxic if inhaled. H332 Harmful if inhaled. H335 May cause respiratory irritation. H350 May cause cancer. 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.
Full text of classifications [CLP/GHS]	: Acute Tox. 3ACUTE TOXICITY - Category 3Acute Tox. 4ACUTE TOXICITY - Category 4Aquatic Acute 1SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1Aquatic Chronic 2LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2Aquatic Chronic 3LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3Asp. Tox. 1ASPIRATION HAZARD - Category 1Carc. 1BCARCINOGENICITY - Category 1BEye Dam. 1SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1Flam. Liq. 3FLAMMABLE LIQUIDS - Category 3Org. Perox. CORGANIC PEROXIDES - Type COrg. Perox. EORGANIC PEROXIDES - Type DOrg. Perox. EORGANIC PEROXIDES - Type ESkin Corr. 1BSKIN CORROSION/IRRITATION - Category 1BSkin Irrit. 2SKIN CORROSION/IRRITATION - Category 2Stort RE 2SPECIFIC TARGET ORGAN TOXICITY - REPEATEDEXPOSURE - Category 2STOT SE 3STOT SE 3SPECIFIC TARGET ORGAN TOXICITY - SINGLEEXPOSURE - Category 3
<u>History</u> Date of issue/ Date of	: 20 June 2024
revision	
Date of previous issue	: 8 March 2024
Prepared by	: EHS
Version	: 2.01
<u>Disclaimer</u>	

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SECTION 16: Other information

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.