SAFETY DATA SHEET



3D Rapid Orange - Pilot Only

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

**1.1 Product identifier** 

Product name Product code Product description Product type Other means of

identification

: 3D Rapid Orange - Pilot Only

: 91092000

: Not available.

: Liquid.

: Not available.

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Resins.		

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

3DQF Unit 6 Platt Fold St Leigh, WN7 1JH +44 (0)1942 644000

# e-mail address of person responsible for this SDS

: SDS@3DQualityFilaments.co.uk

## 1.4 Emergency telephone number <u>National advisory body/Poison Centre</u> <u>Telephone number</u> : +44 1865 407333 (NCEC) 24h (Hours of operation)

# **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]

Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

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

Hazard pictograms



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Signal word	:	Warning
Hazard statements		<ul> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H319 - Causes serious eye irritation.</li> <li>H335 - May cause respiratory irritation.</li> <li>H410 - Very toxic to aquatic life with long lasting effects.</li> </ul>
General	:	Read carefully and follow instructions. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	:	<ul> <li>P280 - Wear protective gloves. Wear eye or face protection.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P273 - Avoid release to the environment.</li> <li>P261 - Avoid breathing vapour.</li> <li>P264 - Wash thoroughly after handling.</li> </ul>
Response	:	<ul> <li>P391 - Collect spillage.</li> <li>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul>
Storage	:	P405 - Store locked up. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	hexamethylene diacrylate monoalkyl or monoaryl or monoalkylaryl esters of acrylic acid phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	None known.

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

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
hexamethylene diacrylate	EC: 235-921-9 CAS: 13048-33-4 Index: 607-109-00-8	≥40 - ≤50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411	[1]
monoalkyl or monoaryl or monoalkylaryl esters of acrylic acid	EC: 227-561-6 CAS: 5888-33-5	≥10 - ≤20	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]

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SECTION 3: Compositio			1	1
	Index: 607-133-00-9		Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
phenyl bis(2,4,6-trimethylbenzoyl)- phosphine oxide	REACH #: 01-2119489401-38 EC: 423-340-5 CAS: 162881-26-7	≤3	Skin Sens. 1A, H317 Aquatic Chronic 4, H413	[1]
ethyl phenyl(2,4,6-trimethylbenzoyl) phosphinate		≤3	Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[1]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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

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

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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SECTION 4: Fi	rst aid measures
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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

#### Over-exposure signs/symptoms

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</li> </ul>
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed		
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>	
Specific treatments	: No specific treatment.	

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media		
Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising fi	rom	the substance or mixture
Hazards from the substance or mixture	:	In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life. This material is toxic 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 dioxide carbon monoxide phosphorus oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
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.

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## SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tective 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. 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. Collect spillage.
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. 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. 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 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 spilt product.
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. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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

Store in accordance with local regulations. 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. 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.

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

7.3 Specific end use(s)

Recommendations

- Industrial sector specific
- : Not available.

: Not available.

solutions

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

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**

No exposure limit value known.

**Recommended monitoring procedures** If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
hexamethylene diacrylate	DNEL	Long term Dermal	1.66 mg/	General	Systemic
	DNEL	Long term Oral	kg bw/day 2.08 mg/	population General	Systemic
		_	kg bw/day	population	-
	DNEL	Long term Dermal	2.77 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term	7.24 mg/m <sup>3</sup>		Systemic
		Inhalation	24.49 mm m/	population	Curataraia
	DNEL	Long term Inhalation	24.48 mg/ m³	Workers	Systemic
monoalkyl or monoaryl or monoalkylaryl esters of acrylic acid	DNEL	Long term Oral	0.83 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.83 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 1.39 mg/	population Workers	Systemic
	DINEL	Long term Derma	kg bw/day	VUINEIS	Systemic
phenyl bis(2,4,6-trimethylbenzoyl)- phosphine oxide	DNEL	Long term Inhalation	21 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	21 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	3.3 mg/kg	Workers	Systemic
	DNEL	Short term Dermal	3.3 mg/kg	Workers	Systemic
	DNEL	Long term Inhalation	5.2 mg/m <sup>3</sup>	General population [Consumers]	Systemic
	DNEL	Long term Dermal	1.5 mg/kg	General population [Consumers]	Systemic
	DNEL	Long term Oral	1.5 mg/kg	General population	Systemic
	DNEL	Short term Oral	1.67 ng/kg bw/day	[Consumers] General population	Systemic

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

	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
		<b>U</b>	bw/day	population	
	DNEL	Long term Dermal	1.5 mg/kg	General	Systemic
		-	bw/day	population	
	DNEL	Short term Dermal	1.67 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Short term	1.93 mg/m <sup>3</sup>		Systemic
		Inhalation		population	
	DNEL	Long term	1.93 mg/m <sup>3</sup>		Systemic
		Inhalation		population	
	DNEL	Long term Dermal	3 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	3.33 mg/ kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	7.84 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	7.84 mg/m³	Workers	Systemic
ethyl phenyl(2,4,6-trimethylbenzoyl) phosphinate	DNEL	Long term Dermal	1.7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	5.88 mg/m <sup>3</sup>	Workers	Systemic

#### **PNECs**

No PNECs available

## 8.2 Exposure controls

Appropriate engineering controls	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
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## Individual protection measures

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of 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.
Body protection	<ul> <li>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.</li> </ul>
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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

Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
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**

9.1 Information on basic physical	l a	nd chemical properties
<u>Appearance</u>		
Physical state	:	Liquid.
Colour	:	Orange
Odour	:	Solvent
Odour threshold	:	Not available.
рН	:	Not available.
Melting point/freezing point	:	Not available.
Initial boiling point and boiling range	÷	Not available.
Flash point	÷	Closed cup: >93.3°C
Evaporation rate	÷	Not available.
Flammability (solid, gas)	÷	Not available.
Upper/lower flammability or explosive limits	1	Not available.
Vapour pressure	:	Not available.
Vapour density	1	Not available.
Relative density	1	1.05 to 1.15
Solubility(ies)	1	Not available.
Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	;	Kinematic (40°C): >0.4 cm²/s
Explosive properties	;	Not available.
Oxidising properties	:	Not available.

### 9.2 Other information

Solubility in water

: Not available.

## **SECTION 10: Stability and reactivity**

10.1 Reactivity	1	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	:	No specific data.
10.5 Incompatible materials	:	No specific data.
Date of issue/Date of revision		: 04/03/2022 Date of previous issue : No previous validation Version : 1 8/15

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## **SECTION 10: Stability and reactivity**

# 10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
hexamethylene diacrylate monoalkyl or monoaryl or monoalkylaryl esters of acrylic acid	LD50 Oral LD50 Dermal	Rat Rabbit	5 g/kg >5 g/kg	-
phenyl bis (2,4,6-trimethylbenzoyl)- phosphine oxide	LD50 Oral LD50 Dermal	Rat Rat	4890 mg/kg >2000 mg/kg	-
1 1	LD50 Oral	Rat	>2000 mg/kg	-

**Conclusion/Summary** : Not available.

### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	
hexamethylene diacrylate monoalkyl or monoaryl or monoalkylaryl esters of acrylic acid	5000 4890	N/A N/A	N/A N/A	N/A N/A	N/A N/A

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
hexamethylene diacrylate	Skin - Severe irritant	Rabbit	-	24 hours 500 mg	-
monoalkyl or monoaryl or monoalkylaryl esters of acrylic acid	Eyes - Mild irritant	Rabbit	-	100 UI	-
	Skin - Moderate irritant	Rabbit	-	500 UI	-

**Conclusion/Summary** 

: Not available.

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
phenyl bis (2,4,6-trimethylbenzoyl)- phosphine oxide	skin	Guinea pig	Sensitising
Conclusion/Summary	: Not available.		
<u>Mutagenicity</u>			
Conclusion/Summary	: Not available.		
Carcinogenicity			
<b>Conclusion/Summary</b>	: Not available.		
Reproductive toxicity			
<b>Conclusion/Summary</b>	: Not available.		
Teratogenicity			
<b>Conclusion/Summary</b>	: Not available.		
Specific target organ toxicit	<u>y (single exposur</u>	<u>e)</u>	

Date of issue/Date of revision

SECTION 11: Toxicol	ogical information				
Product/ingr	redient name	Category	Route of exposure	Target organs	
monoalkyl or monoaryl or mo acid	noalkylaryl esters of acrylic	Category 3	-	Respiratory tract irritation	
Specific target organ toxicit Not available.	<u>y (repeated exposure)</u>				
Aspiration hazard Not available.					
nformation on likely routes of exposure	: Not available.				
Potential acute health effects					
Eye contact	: Causes serious eye irrita	tion.			
Inhalation	: May cause respiratory irr	itation.			
Skin contact	: Causes skin irritation. M	ay cause an allergic	skin reaction.		
Ingestion	: No known significant effe	ects or critical hazaro	ls.		
Symptoms related to the phy	sical, chemical and toxicol	ogical characterist	<u>ics</u>		
Eye contact	: Adverse symptoms may pain or irritation watering redness	include the following	J:		
Inhalation	: Adverse symptoms may respiratory tract irritation coughing	include the following	<b>j</b> :		
Skin contact	: Adverse symptoms may irritation redness	include the following	j:		
Ingestion	: No specific data.				
Delayed and immediate effec	ts as well as chronic effect	s from short and lo	ong-term exposi	<u>ire</u>	
Short term exposure					
Potential immediate effects	: Not available.				
Potential delayed effects	: Not available.				
Long term exposure Potential immediate	: Not available.				
effects					
Potential delayed effects	: Not available.				
Potential chronic health effe	<u>:015</u>				
Conclusion/Summary	: Not available.				
General	: Once sensitized, a sever to very low levels.	e allergic reaction m	ay occur when su	ubsequently exposed	
Carcinogenicity	: No known significant effe				
Mutagenicity	: No known significant effe				
Reproductive toxicity	: No known significant effe	ects or critical hazard	ls.		
Other information	: Not available.				

Date of previous issue

: 04/03/2022

Version :1

: No previous validation

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## **SECTION 12: Ecological information**

### 12.1 Toxicity

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
phenyl bis (2,4,6-trimethylbenzoyl)- phosphine oxide	OECD 301B Ready Biodegradability - CO2 Evolution Test	1 % - 29 days		-	-
Conclusion/Summary	: Not available.				
Product/ingredient name	Aquatic half-life		Photolysis	S	Biodegradability
phenyl bis (2,4,6-trimethylbenzoyl)- phosphine oxide	-		-		Not readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
hexamethylene diacrylate phenyl bis (2,4,6-trimethylbenzoyl)- phosphine oxide	2.81 5.77	- <5	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 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	: The classification of the product may meet the criteria for a hazardous waste.
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.

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## **SECTION 13: Disposal considerations**

#### 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.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hexamethylene diacrylate, exo- 1,7,7-trimethylbicyclo [2.2.1]hept-2-yl acrylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hexamethylene diacrylate, exo- 1,7,7-trimethylbicyclo [2.2.1]hept-2-yl acrylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,6-di-tert-butyl-p- cresol)	Environmentally hazardous substance, liquid, n.o.s. (2,6-di- tert-butyl-p-cresol)
14.3 Transport hazard class(es)	9	9	9	9
14.4 Packing group	111	111	111	111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.

user	upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.6 Special precautions for	: Transport within user's premises: always transport in closed containers that are
	or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8. <b>Quantity limitation</b> Passenger and Cargo Aircraft: 450 L. Packaging instructions: 964. Cargo Aircraft Only: 450 L. Packaging instructions: 964. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y964. <b>Special provisions</b> A97, A158, A197
ΙΑΤΑ	: This product is not regulated as a dangerous good when transported in sizes of $\leq 5$ L
IMDG	<ul> <li>This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.</li> <li>Emergency schedules F-A, S-F</li> <li>Special provisions 274, 335, 969</li> </ul>
ADN	<ul> <li>This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.</li> <li>Special provisions 274, 335, 375, 601</li> </ul>
ADR/RID	<ul> <li>This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.</li> <li>Hazard identification number 90</li> <li>Limited quantity 5 L</li> <li>Special provisions 274, 335, 601, 375</li> </ul>

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## SECTION 14: Transport information

14.7 Transport in bulk according to IMO instruments

: Not available.

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH) 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** : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Other EU regulations Industrial emissions : Not listed (integrated pollution prevention and control) -Air **Industrial emissions** : Not listed (integrated pollution prevention and control) -Water Ozone depleting substances (1005/2009/EU) Not listed. Prior Informed Consent (PIC) (649/2012/EU) Not listed. **Seveso Directive** This product is controlled under the Seveso Directive. **Danger criteria** Category E1: Hazardous to the aquatic environment - Acute 1 or Chronic 1 **National regulations International regulations** Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. **Montreal Protocol** Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. **Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

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## **SECTION 15: Regulatory information**

National inventory : Not determined

**15.2 Chemical safety** 

assessment

: This product contains substances for which Chemical Safety Assessments are still required.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative</li> </ul>
	vrvb – very reisistent and very bloaccumulative

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

Classification	Justification
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Eull toxt of	eleccifications ICL D/CHS1

Full text of classifications [CLP/GHS]

Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
Date of printing	: 04/03/2022
Date of issue/ Date of	: 04/03/2022
revision	
Date of previous issue	No previous validation
Version	: 1
Notice to reader	

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## **SECTION 16: Other information**

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.