# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 13 June 2022

Version : 4.03



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

1.1 Product identifier

Product name	;	JOHNSTONES PERFORMANCE 2 Pk WB Anti Graffiti Glaze Clear Activator
Product code	1	17000DUP072
Other means of identification	n	
00302455; 00423660		

1.2 Relevant identified uses of the substance or mixture and uses advised against			
Product use	: Professional applications, Application by non spray methods		
Use of the substance/ mixture	: Coating.		
Uses advised against	: Product is not intended, labelled or packaged for consumer use.		

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

PPG Architectural Coatings UK Ltd,Huddersfield Road, Birstall, West Yorkshire WF17 9XA, Tel: +44 (0) 1924 354000 PPG Europe BV, Oceanenweg 2, 1047 BB Amsterdam, Netherlands. Tel: +31 (0) 204 075 050

e-mail address of person	: ps.acemea-north@ppg.com
responsible for this SDS	

#### National contact

PG Architectural Coatings UK Ltd, Huddersfield Road, Birstall, West Yorkshire WF17 9XA, Tel: +44 (0) 1924 354000

#### 1.4 Emergency telephone number

+44 (0) 1924 354000

## **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] Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 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

Code : 17000DUP072	
JOHNSTONES PERFORMAN	CE 2 Pk WB Anti Graffiti Glaze Clear Activator
<b>SECTION 2: Hazards</b>	identification
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye damage.</li> <li>Harmful if inhaled.</li> <li>May cause respiratory irritation.</li> </ul>
Precautionary statements	
Prevention	: 📈ear protective gloves. Wear eye or face protection.Avoid breathing vapour.
Response	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Store in a well-ventilated place. Keep container tightly closed.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> <li>P280, P261, P305 + P351 + P338, P310, P403 + P233, P501</li> </ul>
Hazardous ingredients	<ul> <li>Fexamethylene diisocyanate, oligomers.</li> <li>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-, phosphate hexamethylene-di-isocyanate</li> </ul>
Supplemental label elements	: Contains isocyanates. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: As from August 24 2023 adequate training is required before industrial or professional use.
Special packaging requiren	<u>nents</u>
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

not result in classification

Code

: 17000DUP072

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

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
rexamethylene diisocyanate, oligomers.	EC: 500-060-2 CAS: 28182-81-2	≥90	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335	ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[1] [2]
Poly(oxy-1,2-ethanediyl), α- tridecyl-ω-hydroxy-, phosphate	CAS: 9046-01-9	≥5.0 - ≤10	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	-	[1]
ethyldiisopropylamine	EC: 230-392-0 CAS: 7087-68-5	≥1.0 - ≤3.0	Flam. Liq. 2, H225 Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412	ATE [Oral] = 500 mg/ kg	[1]
Phosphoric acid, butyl ester	REACH #: 01-2119970716-27 EC: 235-826-2 CAS: 12788-93-1	≤1.9	Skin Corr. 1B, H314 Eye Dam. 1, H318	-	[1]
hexamethylene-di- isocyanate	REACH #: 01-2119457571-37 EC: 212-485-8 CAS: 822-06-0 Index: 615-011-00-1	<0.50	Acute Tox. 4, H302 Acute Tox. 1, H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335	ATE [Oral] = 710 mg/ kg ATE [Inhalation (vapours)] = 0.151 mg/ I Resp. Sens. 1, H334: $C \ge 0.5\%$ Skin Sens. 1, H317: C $\ge 0.5\%$	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

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

Type

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.

SUB codes represent substances without registered CAS Numbers.

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

English (GB)	United Kingdom (UK) 3/16
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Inhalation	<ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</li> </ul>
Eye contact	<ul> <li>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.</li> </ul>
4.1 Description of first ai	d measures

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JOHNSTONES PERFORMAN	NCE 2 Pk WB Anti Graffiti Glaze Clear Activator
SECTION 4: First aid	l measures
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 sympton	ns and effects, both acute and delayed
Potential acute health effect	<u>xts</u>
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	i <u>toms</u>
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 immedi	ate medical attention and special treatment needed
Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

# 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 f	from 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.

Code : 17000DUP0 JOHNSTONES PERFORMA	72 Date of issue/Date NCE 2 Pk WB Anti Graffiti Glaze Clear Act	
SECTION 5: Firefigl	nting measures	
Hazardous combustion products	: Decomposition products may include th carbon oxides	e following materials:

products	nitrogen oxides phosphorus oxides Cyanate and isocyanate. hydrogen cyanide
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	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 fro entering. Do not touch or walk through spilt material. Do not breathe vapour or 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 8 on suitable and unsuitable materials. See also the information in "For emergency personnel".	
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, dra sewers. Inform the relevant authorities if the product has caused environmenta pollution (sewers, waterways, soil or air).	
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 if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry mate place in an appropriate waste disposal container. Dispose of via a licensed was disposal contractor.	erial and
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release upwind. Prevent entry into sewers, water courses, basements or confined areas spillages into an effluent treatment plant or proceed as follows. Contain and col spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite of diatomaceous earth and place in container for disposal according to local regular Dispose of via a licensed waste disposal contractor. Contaminated absorbent m any pose the same hazard as the spilt product.	s. Wash llect or ations.
Special provisions	: Contain and collect spillage with non-combustible, absorbent material e.g. sand vermiculite or diatomaceous earth and place in container for disposal according regulations (see Section 13). Place in a suitable container. The contaminated ar should be cleaned immediately with a suitable decontaminant. One possible (fla decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alc parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further rea an unsealed container. Once this stage is reached, close container and dispose according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the	to local rea ammable) cohol (50 e action in
English (GB)	United Kingdom (UK)	5/16

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JOHNSTONES PERFORM	IANCE 2 Pk WB Anti Graffiti Glaze Clear Activator
<b>SECTION 6: Accid</b>	lental release measures
	appropriate authorities in accordance with local regulations.
6.4 Reference to other	: See Section 1 for emergency contact information.
sections	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

The recondensions for sure that	
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 breathe vapour or mist. Do not ingest. 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	<ul> <li>Store between the following temperatures: 0 to 5°C (32 to 41°F). 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.</li> <li>Precautions should be taken to minimise exposure to atmospheric humidity or water. CO<sub>2</sub> will be formed, which, in closed containers, could result in pressurisation.</li> </ul>

#### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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

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

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
revamethylene diisocyanate, oligomers. hexamethylene-di-isocyanate	IPEL (-). TWA: 0.5 mg/m <sup>3</sup> STEL: 1 mg/m <sup>3</sup> ACGIH TLV (United States, 1/2021). TWA: 0.03 mg/m <sup>3</sup> 8 hours. TWA: 0.005 ppm 8 hours.

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

Recommended monitoring	1	If this product contains ingredients with exposure limits, personal, workplace
procedures		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**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
✓examethylene diisocyanate, oligomers.	DNEL	Long term Inhalation	0.5 mg/m³	Workers	Local
	DNEL	Short term Inhalation	1 mg/m³	Workers	Local
ethyldiisopropylamine	DNEL	Long term Inhalation	0.5 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	0.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	2.96 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	4.2 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	12.6 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	12.6 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	0.33 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.4 mg/m <sup>3</sup>	Workers	Local
Phosphoric acid, butyl ester	DMEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1.7 mg/m³	General population	Systemic
	DNEL	Short term Oral	61.9 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	61.9 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	123.7 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	215.1 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	872.4 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	470 µg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.29 mg/m <sup>3</sup>	Workers	Systemic
hexamethylene-di-isocyanate	DNEL	Long term Inhalation	0.035 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	0.035 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	0.07 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	0.07 mg/m³	Workers	Systemic

#### **PNECs**

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
hexamethylene-di-isocyanate	-		0.0774 mg/l	Assessment Factors
	-	Marine water	0.00774 mg/l	Assessment Factors
	-	Sewage Treatment Plant	8.42 mg/l	Assessment Factors
	-	Fresh water sediment	0.01334 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	0.001334 mg/kg	Equilibrium Partitioning
			dwt	
	-	Soil	0.0026 mg/kg dwt	Equilibrium Partitioning

#### 8.2 Exposure controls

# Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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SECTIO	ON 8: Exposure	e controls/personal protection
<u>Individu</u>	al protection measu	res
Hygien	e 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/fac	ce protection	: Chemical splash goggles and face shield. Use eye protection according to EN 166.
<u>Skin p</u>	rotection	
Hand	protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Glove	es estatution and a second	: 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.
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.
Respir	atory protection	: Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN140. 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. Mask type: full-face mask half-face mask Filter type: organic vapour filter (Type A) particulate filter P3 Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
Restric	ctions on use	: Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

**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	: Liquid.
Colour	: Various
Odour	: Faint odour.

SECTION 9: Physical a	Ind	chemical proper	ties				
Odour threshold	:	Not available.					
Melting point/freezing point	:	May start to solidify at the following temperature: -51.3 to -28.4°C (-60.3 to -19.1°F) This is based on data for the following ingredient: Hexamethylene diisocyanate, oligomers. Weighted average: -40.15°C (-40.3°F)					
Initial boiling point and boiling range	:	>37.78°C					
Flammability	:	liquid					
Upper/lower flammability or explosive limits	:	Not applicable.					
Flash point	:	Closed cup: Not applicable. [Product does not sustain combustion.]					
Auto-ignition temperature	:						
		Ingredient name	°C	°F	Method		
		ethyldiisopropylamine	260.4	500.7			
Decomposition temperature	:	Stable under recommen	ded storage and	handling cond	litions (see Section 7).		
pH	:	8	Ū.	Ū.			
	:	Kinematic (40°C): >21 mm²/s					
Viscosity	:						
Viscosity Solubility(ies)	Result						
· · · · · · · · · · · · · · · · · · ·		Result		Partially soluble			

#### Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
ethyldiisopropylamine	10.69	1.4				

Evaporation rate	: Not available.
Relative density	: 1.15
Explosive properties	: Not available.
Oxidising properties	: Product does not present an oxidizing hazard.
Particle characteristics	
Median particle size	: Not applicable.

1

#### 9.2 Other information

No additional information.

# **SECTION 10: Stability and reactivity**

10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.2 Chemical stability	: The product is stable.
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

English	(GB)
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#### United Kingdom (UK)

Code : 17000DUP072 JOHNSTONES PERFORMANC	Date of issue/Date of revision: 13 June 2022CE 2 Pk WB Anti Graffiti Glaze Clear Activator
SECTION 10: Stability	y and reactivity
10.4 Conditions to avoid	: In a fire, hazardous decomposition products may be produced.
	Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from: oxidising agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: Cyanate and isocyanate. carbon oxides nitrogen oxides phosphorus oxides hydrogen cyanide

# **SECTION 11: Toxicological information**

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

Product/ingredient name	Result	Species	Dose	Exposure
Hexamethylene diisocyanate, oligomers.	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat - Female	>2500 mg/kg	-
Poly(oxy-1,2-ethanediyl), α-tridecyl-ω- hydroxy-, phosphate	LD50 Oral	Rat	>2000 mg/kg	-
Phosphoric acid, butyl ester	LD50 Oral	Rat	5300 mg/kg	-
hexamethylene-di-isocyanate	LC50 Inhalation Dusts and mists	Rat	124 mg/m³	4 hours
	LC50 Inhalation Vapour	Rat	151 mg/m <sup>3</sup>	4 hours
	LC50 Inhalation Vapour	Rat	22 ppm	4 hours
	LD50 Dermal	Rabbit	0.57 g/kg	-
	LD50 Oral	Rat	0.71 g/kg	-

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

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Phosphoric acid, butyl ester	Skin - Oedema	Rabbit	4	-	-

English (GB)	United Kingdom (UK)
Specific target organ toxic	<u>ity (single exposure)</u>
Conclusion/Summary	: There are no data available on the mixture itself.
<b>Teratogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
<u>Carcinogenicity</u>	
Conclusion/Summary	: There are no data available on the mixture itself.
Mutagenicity	
Respiratory	<ul> <li>There are no data available on the mixture itself.</li> </ul>
Skin	: There are no data available on the mixture itself.
Conclusion/Summary	
Respiratory Sensitisation	: There are no data available on the mixture itself.
Eyes	There are no data available on the mixture itself.
Evec	
Skin	: There are no data available on the mixture itself
Conclusion/Summary	

2020/878 Code : 17000DUP072 Date of issue/Date of revision : 13 June 2022 JOHNSTONES PERFORMANCE 2 Pk WB Anti Graffiti Glaze Clear Activator SECTION 11: Toxicological information **Product/ingredient name Route of** Category **Target organs** exposure Hexamethylene diisocyanate, oligomers. Category 3 Respiratory tract irritation Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-, Category 3 \_ Respiratory tract irritation phosphate hexamethylene-di-isocyanate Category 3 Respiratory tract irritation Specific target organ toxicity (repeated exposure) Not available. Aspiration hazard Not available. Information on likely : Not available. routes of exposure Potential acute health effects Inhalation : Harmful if inhaled. May cause respiratory irritation. Ingestion : No known significant effects or critical hazards. Skin contact : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. Eye contact : Causes serious eye damage. Symptoms related to the physical, chemical and toxicological characteristics Inhalation : Adverse symptoms may include the following: respiratory tract irritation coughing Ingestion : Adverse symptoms may include the following: stomach pains **Skin contact** Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur Adverse symptoms may include the following: Eye contact pain watering redness Delayed and immediate effects as well as chronic effects from short and long-term exposure Short term exposure **Potential immediate** : Not available. effects Potential delayed effects : Not available. Long term exposure **Potential immediate** : Not available. effects Potential delayed effects : Not available. **Potential chronic health effects** Not available. **Conclusion/Summary** : Not available.

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SECTION 11: Toxicological information				
General : 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				

	dermatitis. Once sensitized, a severe allergic reaction may occur when sub exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
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. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Repeated exposure may lead to permanent respiratory disability. Moisture-sensitive material. 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
Hexamethylene diisocyanate, oligomers.	Acute EC50 >1000 mg/l	Algae - scenedesmus subspicatus	72 hours
	Acute EC50 >100 mg/l	Daphnia - daphnia magna	48 hours
	Acute LC50 >100 mg/l	Fish - Danio rerio (zebra fish)	96 hours
Phosphoric acid, butyl ester	Acute EC50 >100 mg/l	Fish	96 hours

**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
Fexamethylene diisocyanate, oligomers.	-	-	Not readily

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Examethylene diisocyanate, oligomers.	5.54	3.2	low
hexamethylene-di-isocyanate	0.02	-	low

#### 12.4 Mobility in soil

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#### SECTION 12: Ecological information

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**

# ProductMethods of disposal: The generation of waste should be avoided or minimised wherever possible. Disposal<br/>of this product, solutions and any by-products should at all times comply with the<br/>requirements of environmental protection and waste disposal legislation and any<br/>regional local authority requirements. Dispose of surplus and non-recyclable products<br/>via a licensed waste disposal contractor. Waste should not be disposed of untreated to<br/>the sewer unless fully compliant with the requirements of all authorities with jurisdiction.Hazardous waste: Within the present knowledge of the supplier, this product is not regarded as hazardous

**Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

#### European waste catalogue (EWC)

Waste code	Waste designation
08 01 12	waste paint and varnish other than those mentioned in 08 01 11
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 04	metallic 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.	

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# 14. Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

#### Additional information

ADR/RID	: None identified.
ADN	: None identified.
IMDG	: None identified.
ΙΑΤΑ	: None identified.

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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
user
                                  the event of an accident or spillage.
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14.7 Maritime transport in : Not applicable. bulk according to IMO instruments

# **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.

: As from August 24 2023 adequate training is required before industrial or professional use.

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

**Annex XVII - Restrictions** 

#### Ozone depleting substances (1005/2009/EU)

Not listed.

#### **Seveso Directive**

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SECTION 15: Regulatory information

This product is not controlled under the Seveso Directive.

: No Chemical Safety Assessment has been carried out.

#### assessment

**15.2 Chemical safety** 

**SECTION 16: Other information** 

Indicates information that has changed from previously issued version.

#### Abbreviations and acronyms

ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway IMDG = International Maritime Dangerous Goods IATA = International Air Transport Association Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method

#### Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if
	inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

#### Full text of classifications [CLP/GHS]

English (GB)	United Kingdom (UK)	15/16
Skin Sens. 1	SKIN SENSITISATION - Category 1	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B	
Resp. Sens. 1	<b>RESPIRATORY SENSITISATION - Category 1</b>	
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Categ	gory 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Categ	gory 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Ca	
Acute Tox. 4	ACUTE TOXICITY - Category 4	
Acute Tox. 1	ACUTE TOXICITY - Category 1	

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SECTION 16: Other information			

#### er information

STOT SE 3		SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<u>History</u>		
Date of issue/ Date of revision	: 13 June 2022	
Date of previous issue	: 28 February 202	2
Prepared by	: EHS	
Version	: 4.03	

Version

#### **Disclaimer**

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