Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2016/918

# watco<sup>®</sup> SAFETY DATA SHEET

Dampguard Advanced - Resin

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

1.1 Product identifier

Product name

: Dampguard Advanced - Resin

Product description Product type UFI

: Coating.

: Liquid.

: CXQ0-00XQ-T00A-1RTS

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

Identified uses		
Industrial uses Consumer uses Professional uses		
Uses advised ag	Reason	
None identified.	-	

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

Watco UK Limited Eastgate Court 195-205 High Street Guildford Surrey GU1 3EH Telephone no.: +44 (0) 1483 425000 (08:00 - 18:00) Fax no.: +44 (0) 1483 428888

e-mail address of person : rpmeurohas@rustoleum.eu responsible for this SDS

### 1.4 Emergency telephone number

<u>Supplier</u>	
Telephone number	: +44 (0) 207 858 1228
Hours of operation	: 24/7

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

: Mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411

**Product definition** 

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

Date of issue/Date of revision

# **SECTION 2: Hazards identification**

Hazard pictograms	
Signal word	: Warning
Hazard statements	<ul> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
General	<ul> <li>P103 - Read label before use.</li> <li>P102 - Keep out of reach of children.</li> <li>P101 - If medical advice is needed, have product container or label at hand.</li> </ul>
Prevention	<ul> <li>P280 - Wear eye or face protection: Recommended: safety glasses with side- shields.</li> <li>P273 - Avoid release to the environment.</li> </ul>
Response	<ul> <li>P391 - Collect spillage.</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> </ul>
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	<ul> <li>bis-[4-(2,3-epoxipropoxi)phenyl]propane; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol; oxirane, mono[ (C10-16-alkyloxy)methyl] derivs and 1,4-bis(2,3-epoxypropoxy)butane</li> </ul>
Supplemental label elements	: Contains epoxy constituents. May produce an allergic reaction.
	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	ients
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 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.
The mixture may be a skin se	nsitiser. It may also be a skin irritant and repeated contact may increase this effect. The

The mixture may be a skin sensitiser. It may also be a skin irritant and repeated contact may increase this effect. The mixture may be a skin sensitiser. It may also be a severe skin irritant.

# SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture			
			<b>Classification</b>	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
bis-[4- (2,3-epoxipropoxi) phenyl]propane	EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥25 - ≤50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥25 - ≤50	Carc. 2, H351	[1]
Formaldehyde, oligomeric reaction products with 1-chloro- 2,3-epoxypropane and phenol	EC: 500-006-8 CAS: 9003-36-5	≥10 - ≤25	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
oxirane, mono[ (C10-16-alkyloxy) methyl] derivs	EC: 268-358-2 CAS: 68081-84-5	≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
1,4-bis (2,3-epoxypropoxy) butane	REACH #: 01-2119494060-45 EC: 219-371-7 CAS: 2425-79-8 Index: 603-072-00-7	≤5	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
			See Section 16 for the full text of the H statements declared above.	

### **Notes**

### The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter $\leq$ 10 µm.

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

[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

## 4.1 Description of first aid measures

Date of issue/Date of revision	: 5/05/2020	Date of previous issue	: 26/04/2017	Version	: 3	3/18
Inhalation		fresh air. Keep person w if respiratory arrest occu sonnel.				
Eye contact		ntact lenses, irrigate cop rt for at least 10 minutes				
General	anything by	of doubt, or when sympt mouth to an unconsciou d seek medical advice.				give

SECTION 4: First aid measures		
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	<ul> <li>If swallowed, seek medical advice immediately and show the container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. 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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

Based on the properties of epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and a severe irritant. It contains epoxy based reactive diluents which are moderate to severely irritating to eyes, mucous membrane and skin and are strong sensitisers. Repeated skin contact may lead to irritation and to hyper-sensitivity, possibly with cross-sensitisation to other epoxies. Single oral exposure to doses of the epoxy based reactive diluents at or close to the lethal dose has been shown to cause transient neurotoxic effects in animals in some cases. However, uptake through skin and by inhalation has not caused such effects in animals. Prolonged exposure to high concentration may cause adverse effects in target organs such as liver and kidney.

Contains bis-[4-(2,3-epoxipropoxi)phenyl]propane, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol, oxirane, mono[(C10-16-alkyloxy)methyl] derivs, 1,4-bis(2,3-epoxypropoxy)butane. May produce an allergic reaction.

### Over-exposure signs/symptoms

Eye contact

	pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
4.3 Indication of any im	mediate 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.

: Adverse symptoms may include the following:

# **SECTION 4: First aid measures**

See toxicological information (Section 11)

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media		
Suitable extinguishing media	:	Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray.
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising fr	on	n 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 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 thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/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.
Additional information	:	No unusual hazard if involved in a fire.

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	ote	ctive 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	СС	ontainment and cleaning up
Small snill	۰.	Ston leak if without risk. Move containers from shill area. Dilute with water and mon

mall 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.

### **SECTION 6: Accidental release measures**

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	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling	: Due to the organic solvents content of the mixture:
	<ul> <li>Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.</li> <li>Keep away from heat, sparks and flame. No sparking tools should be used.</li> <li>Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.</li> <li>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.</li> <li>Put on appropriate personal protective equipment (see Section 8).</li> <li>Never use pressure to empty. Container is not a pressure vessel.</li> <li>Always keep in containers made from the same material as the original one.</li> <li>Comply with the health and safety at work laws.</li> <li>Information on fire and explosion protection</li> <li>Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.</li> </ul>

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

### Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

### Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed.

Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

### Danger criteria

	Notification and MAPP threshold	Safety report threshold
E2	200 tonne	500 tonne

### 7.3 Specific end use(s)

Recommendations

: Not available.

Industrial sector specific solutions

: Not available.

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

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
diuron	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m <sup>3</sup> 8 hours.
procedures atmosphere of the ventila protective ed the following the assessm limit values a atmospheres of exposure (Workplace a for the meas	tt contains ingredients with exposure limits, personal, workplace or biological monitoring may be required to determine the effectiveness tion or other control measures and/or the necessity to use respiratory uipment. Reference should be made to monitoring standards, such as European Standard EN 689 (Workplace atmospheres - Guidance for ent of exposure by inhalation to chemical agents for comparison with and measurement strategy) European Standard EN 14042 (Workplace - Guide for the application and use of procedures for the assessment to chemical and biological agents) European Standard EN 482 atmospheres - General requirements for the performance of procedures urement of chemical agents) Reference to national guidance or methods for the determination of hazardous substances will also be

### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
titanium dioxide	DNEL	Long term Inhalation	10 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	700 mg/kg bw/day	General population [Consumers]	Systemic
Formaldehyde, oligomeric reaction products with 1-chloro- 2,3-epoxypropane and phenol	DNEL	Short term Dermal	83 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Dermal	104,15 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	29,39 mg/ m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	62,5 mg/ kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	8,7 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Oral	6,25 mg/ kg bw/day	General population [Consumers]	Systemic

### **PNECs**

Product/ingredient name	<b>Compartment Detail</b>	Value	Method Detail
titanium dioxide	Fresh water	0,127 mg/l	-
	Marine	>1 mg/l	-
	Sewage Treatment	>100 mg/l	-
	Plant		
	Fresh water sediment	>1000 mg/kg	-
	Marine water sediment	>100 mg/kg	-
	Soil	100 mg/kg	-
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	Fresh water	0,003 mg/l	-
	Marine water	0,0003 mg/l	-
	Sewage Treatment	10 mg/l	-
te of issue/Date of revision : 5/05/2020	Date of previous issue	: 26/04/2017	Version : 3

# SECTION 8: Exposure controls/personal protection Plant Fresh water sediment Marine water sediment 0,294 mg/kg dwt 0,294 mg/kg dwt 0,294 mg/kg dwt 0,297 mg/kg dwt

8.2 Exposure controls		
Appropriate engineering controls	:	Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.
Individual protection meas	ures	<u>s</u>
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,

### Skin protection

### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

goggles. Recommended: safety glasses with side-shields

unless the assessment indicates a higher degree of protection: chemical splash

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Gloves	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: > 8 hours (breakthrough time): butyl rubber (0.6 mm) gloves
	The recommendation for the type or types of glove to use when handling this product is based on information from the following source:
	EN 374
	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.
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	<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Respiratory protection	: 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. Recommended: organic vapour (Type A) and particulate filter (EN 141)

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

Environmental exposure	: Emissions from ventilation or work process equipment should be checked to ensure
controls	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 and chemical properties

Annonranco		-
Appearance		
Physical state	÷	Liquid.
Colour	4	Various
Odour	1	Slight
Odour threshold	1	Not available.
рН	1	Not available.
Melting point/freezing point	1	Not available.
Initial boiling point and	÷	Not available.
boiling range		
Flash point	:	Not available.
Evaporation rate	1	Not available.
Flammability (solid, gas)	1	Not available.
Upper/lower flammability or explosive limits	1	Not available.
Vapour pressure	÷	Not available.
Vapour density	÷	Not available.
Relative density	÷	1,52
Solubility(ies)	4	Not available.
Partition coefficient: n-octanol/ water	1	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Not available.
Explosive properties	÷	Not available.
Oxidising properties	÷	Not available.
Strang biokerine	1	

### 9.2 Other information

No additional information.

SECTION 10: Stability and reactivity					
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.				
10.2 Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).				
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.				
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.				
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.				

# **SECTION 10: Stability and reactivity**

10.6 Hazardous

decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced. If involved in a fire, toxic gases including CO, CO2 and smoke can be generated.

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
bis-[4-(2,3-epoxipropoxi) phenyl]propane	LD50 Dermal	Rabbit	20 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat - Male, Female	3,43 to 5,09 mg/l	4 hours
	LD50 Dermal	Rabbit	>10 g/kg	-
	LD50 Oral	Rat	>24 g/kg	-
oxirane, mono[ (C10-16-alkyloxy)methyl] derivs	LD50 Oral	Rat	>5000 mg/kg	-
1,4-bis(2,3-epoxypropoxy) butane	LD50 Dermal	Rabbit	1130 mg/kg	-
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1134 mg/kg	-
	LD50 Oral	Rat	1410 mg/kg	-

Conclusion/Summary

: Based on available data, the classification criteria are not met.

### Acute toxicity estimates

Not available.

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	Skin - Mild irritant	Rabbit	-	24 hours 500 microliters	-
	Skin - Erythema/Eschar	Rabbit	0,7	4 hours	72 hours
1,4-bis(2,3-epoxypropoxy) butane	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 10 milligrams	-

# Conclusion/Summary

- Skin Eyes
- : Causes skin irritation.
  - : Causes serious eye irritation.
  - : Based on available data, the classification criteria are not met.

Respiratory Sensitisation

# **SECTION 11: Toxicological information**

	<u> </u>		
Product/ingredient name	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse	Sensitising
titanium dioxide	skin skin skin	Guinea pig Guinea pig Mouse	Sensitising Not sensitizing Not sensitizing
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	skin	Guinea pig	Sensitising
1,4-bis(2,3-epoxypropoxy) butane	skin	Guinea pig	Sensitising

**Conclusion/Summary** 

Skin

: May cause an allergic skin reaction.

Respiratory

: Based on available data, the classification criteria are not met.

### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
titanium dioxide	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative
	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	OECD 476	Experiment: In vitro Subject: Mammalian-Animal	Positive
	OECD 471 OECD 474	Subject: Bacteria Subject: Mammalian-Animal	Positive Negative

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Carcinogenicity

: Based on available data, the classification criteria are not met.

### Conclusion/Summary Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
titanium dioxide Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	Negative Negative	Negative -	Negative -	Rat - Male, Female Rat	Oral: 100 to 3001000 mg/kg Oral: 540 mg/kg	20 days; 7 days per week -

Conclusion/Summary

: Based on available data, the classification criteria are not met.

### **Teratogenicity**

# **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Positive - Dermal	Rabbit	300 mg/kg	1 days per week
	Positive - Oral	Rat	180 mg/kg	1 days per week
	Positive - Oral	Rabbit	180 mg/kg	1 days per week
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	Positive - Dermal	Rabbit	300 mg/kg	6 hours; 7 days per week
	Positive - Dermal	Rabbit	100 mg/kg	6 hours; 7 days per week
	Negative - Route of exposure unreported	Rabbit - Female	>300 mg/kg	-

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
diuron	Category 2	Not determined	Not determined

### Aspiration hazard

Not available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.

### Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure	
titanium dioxide	Chronic NOAEL Oral Chronic NOAEL Inhalation Dusts and mists	Rat Rat	3500 mg/kg 10 mg/m³	- 24 hours	
Conclusion/Summary	: Based on available data, the	Based on available data, the classification criteria are not met.			
General	: Once sensitized, a severe allergic reaction may occur when subsequently expose to very low levels.			sequently exposed	
Carcinogenicity	: No known significant effects or critical hazards.				
Mutagenicity	: No known significant effects or critical hazards.				
Teratogenicity	: No known significant effects	No known significant effects or critical hazards.			
Developmental effects	: No known significant effects	: No known significant effects or critical hazards.			
Fertility effects	: No known significant effects or critical hazards.				
Other information	: Not available.				

# **SECTION 12: Ecological information**

### 12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6,5 mg/l Fresh water	Daphnia spec Daphnia pulex - Neonate	48 hours
	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	Acute EC50 1,8 mg/l	Algae	72 hours
•	Acute EC50 2 mg/l	Daphnia spec.	24 hours
	Acute EC50 1,6 mg/l	Daphnia spec.	48 hours
	Acute IC50 >100 mg/l	Bacteria	3 hours
	Acute LC50 0,55 mg/l	Fish	96 hours
	Acute LC50 2 mg/l	Fish	96 hours
	Chronic NOEC 0,3 mg/l	Daphnia spec.	21 days
1,4-bis(2,3-epoxypropoxy) butane	Acute EC50 75 mg/l	Daphnia spec Daphnia magna	24 hours
	Acute LC50 24 mg/l	Fish - Brachydanio rerio	96 hours
	Chronic NOEC 80 mg/l	Algae	72 hours
Conclusion/Summary	: Toxic to aquatic life with long lasting	g effects.	

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
bis-[4-(2,3-epoxipropoxi) phenyl]propane	OECD 301B	6 to 12 % - Not readily - 28 days	-	-
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	OECD 301B	16 % - Not readily - 28 days	-	-
	-	0 % - Not readily - 28 days	-	-

**Conclusion/Summary** : Based on available data, the classification criteria are not met. This product has not been tested for biodegradation.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
bis-[4-(2,3-epoxipropoxi) phenyl]propane titanium dioxide Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	-	-	Not readily Not readily Not readily

### **12.3 Bioaccumulative potential**

# **SECTION 12: Ecological information**

Product/ingredient name	LogPow	BCF	Potential	
bis-[4-(2,3-epoxipropoxi) phenyl]propane	3,84	3 to 31	low	
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	2,7	150	low	
oxirane, mono[ (C10-16-alkyloxy)methyl] derivs	>3	-	low	
1,4-bis(2,3-epoxypropoxy) butane	-0,269	-	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.
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# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance.

### 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	1	Yes.
Disposal considerations	:	Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

### European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

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.

# **SECTION 13: Disposal considerations**

Disposal considerations	<ul> <li>Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.</li> </ul>
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. [bisphenol-A-epoxy resin, avg.mol.wght. ≤ 700]	Environmentally hazardous substance, liquid, n.o.s. [bisphenol-A-epoxy resin, avg.mol.wght. ≤ 700, ]	Environmentally hazardous substance, liquid, n.o.s. liquid n.o. s. [bisphenol-A-epoxy resin avg.mol.wght. ≤ 700]	Environmentally hazardous substance, liquid, n.o.s. [bisphenol-A-epoxy resin, avg.mol.wght. ≤ 700]
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.
Additional information	Remarks: (≦ 5L: ) Exempted ADR Tunnel code: (E)		Emergency schedules (EmS): F-A + <u>S-F</u> Marine pollutant (P) <u>Remarks:</u> (≦ 5L: ) Exempted	Passenger and Cargo Aircraft Quantity limitation: 450 L Packaging instructions: 964 Cargo Aircraft Only Quantity limitation: 450 L Packaging instructions: 964 Limited Quantities - Passenger Aircraft Quantity limitation: 30 Kg Packaging instructions: Y 964

user

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.

# **SECTION 15: Regulatory information**

•	-				
15.1 Safety, health and enviro	5.1 Safety, health and environmental regulations/legislation specific for the substance or mixture				
EU Regulation (EC) No. 1907/2006 (REACH)					
Annex XIV - List of substan	ces subject to autho	<u>prisation</u>			
Annex XIV					
None of the components are	e listed.				
Substances of very high c	oncern				
None of the components are	e listed.				
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.				
Other EU regulations					
VOC			on VOC apply to this pr for further information		
VOC for Ready-for-Use Mixture	EU limit value for the	ictive performance coa his product : 140g/l (20 ins a maximum of 20		use such as floors.	
Europe inventory	: All components are	e listed or exempted.			
Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects	

Not supported

Not supported

Not supported

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

Not supported

Not listed.

titanium dioxide

### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

### Seveso Directive

This product is controlled under the Seveso Directive.

### Danger criteria

Category					
E2					
	own assess legislation.	ation contained in this saf sment of workplace risks, The provisions of the nat of this product at work.	as required by other	<sup>-</sup> health and safety	
References	Conforms to	Workplace exposure limit Regulation (EC) No. 190 EU) No. 2016/918		nnex II, as amended	by
nternational regulation	<u>S</u>				
hemical Weapon Con	vention List Sched	ules I, II & III Chemicals			
Not listed.					
Iontreal Protocol					
Not listed.					
tockholm Convention	on Persistent Orga	anic Pollutants			
Not listed.					
otterdam Convention	on Prior Informed	<u>Consent (PIC)</u>			
te of issue/Date of revision	: 5/05/2020	Date of previous issue	: 26/04/2017	Version : 3	16/

# **SECTION 15: Regulatory information**

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals Not listed.

CN code : 3209 90 00

### International lists

National inventory	
Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined
New Zealand	: Not determined.
Philippines Republic of Korea	<ul><li>All components are listed or exempted.</li><li>All components are listed or exempted.</li></ul>
Taiwan	: All components are listed or exempted.
Turkey	: Not determined.
United States	: Not determined.
Thailand	: Not determined.
Viet Nam	: Not determined.

**15.2 Chemical safety** assessment

: No Chemical Safety Assessment has been carried out.

# **SECTION 16: Other information**

Indicates	information	that has	s changed	from p	previously	/ issued version.

Abbreviations and	: ATE = Acute To	xicity Estimate				
acronyms	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 PBT = Persistent, Bioaccumulative and Toxic					
	RRN = REACH I	ed No Effect Concentration Registration Number sistent and Very Bioaccumulative				
Contains TiO2	: Yes					
Procedure used to deriv	ve the classification acco	ording to Regulation (EC) No. 1272/2008 [CLP/GHS]				
CI	lassification	Justification				
Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317		Expert judgment Expert judgment Expert judgment				

Full text of H-phrases referred to in sections 2 and 3

Aquatic Chronic 2, H411

Expert judgment

SECTION 16: Other information					
Full text of abbreviated H statements	H302Harmful if swallowed.H312Harmful in contact with skin.H315Causes skin irritation.H317May cause an allergic skin reaction.H319Causes serious eye irritation.H332Harmful if inhaled.H351Suspected of causing cancer.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effect	ts.			
Full text of classifications [CLP/GHS]	Acute Tox. 4ACUTE TOXICITY - Category 4Aquatic Chronic 2LONG-TERM (CHRONIC) AQUATIC HAZAF Category 2Aquatic Chronic 3LONG-TERM (CHRONIC) AQUATIC HAZAF Category 3Carc. 2CARCINOGENICITY - Category 2Eye Irrit. 2SERIOUS EYE DAMAGE/EYE IRRITATIONSkin Irrit. 2SKIN CORROSION/IRRITATION - Category 1	RD - - Category 2			
Date of printing	7/07/2020				
Date of issue/ Date of revision	5/05/2020				
Date of previous issue	6/04/2017				
Version					
Notice to reader					

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.