SAFETY DATA SHEET



TB510 PU Topcoat Binder DTM High Gloss

Section 1. Identif	ication
Product name	: TB510 PU Topcoat Binder DTM High Gloss
Product type	: Liquid.
Relevant identified uses of	the substance or mixture and uses advised against
Identified uses	
Use in coatings - Topcoat	
Uses advised against Not applicable.	
Supplier	
Manufacturer	: Valspar b.v. Zuiveringweg 89 8243 PE Lelystad The Netherlands tel: +31 (0)320 292200 fax: +31 (0)320 292201
Emergency telephone number	: Call: +31 (0)320 292200 (during daytime)
Supplier's details	: DBNZ Coatings Limited 176 Ossie James Drive Hamilton Airport, 3282 NEW ZEALAND T: +64 7847 0944 E: info@dbnz.co.nz
Emergency telephone number (with hours of operation)	: New Zealand Poisons Information Centre: 0800 764766 (24 hrs) CALL: +(64)-98010034 (Hours of operation - 24 hours)
e-mail address of person responsible for this SDS	: autoinfo@valspar.com
Section 2. Hazard	Is identification
HSNO Classification	: FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 RESPIRATORY SENSITISATION - Category 1 SKIN SENSITISATION - Category 1 CARCINOGENICITY - Category 2 REPRODUCTIVE TOXICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
This material is classified as I Notice 2020.	hazardous according to criteria in the Hazardous Substances (Hazard Classification) 🥄
This material is classified as I Transport of Dangerous Good	DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 ds on Land.
GHS label elements	
Signal word	: Danger
Version : 1	Date of issue/Date of revision : 12/16/2022

Section 2. Hazards identification

Hazard statements	 Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.
Precautionary statements	
General	: Do not apply directly into or onto water. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapour or spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	: Store locked up.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.
Symbol	

Other hazards which do not : None known. result in classification

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	% (w/w)	CAS number
xylene	≥10 - ≤24	1330-20-7
n-butyl acetate	≥10 - ≤22	123-86-4
ethylbenzene	≤5	100-41-4
Solvent naphtha (petroleum), heavy arom.	≤5	64742-94-5
ethyl 3-ethoxypropionate	≤3	763-69-9
2-butoxyethanol	≤1.7	111-76-2
trizinc bis(orthophosphate)	≤2.2	7779-90-0
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	≤1	41556-26-7
Version : 1	Date of issue/Date	of revision : 12/16/2022

Section 3. Composition/information on ingredients

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methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	≤0.3	82919-37-7	
phthalic anhydride	≤0.3	85-44-9	
dioctyltin dilaurate	≤0.3	3648-18-8	
toluene	≤0.3	108-88-3	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary first aid measures

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. In the event of any complaints or symptoms, avoid further exposure.
Ingestion	: Wash out mouth with water. Remove dentures if any. 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. 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.
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.
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.

Most important symptoms/effects, acute and delayed

Potential acute healt	th effects	
Inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Ingestion	: No known significant effects or critical hazards.	
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.	
Eye contact	: Causes serious eye irritation.	
Over-exposure signs	<u>s/symptoms</u>	
Inhalation	: Adverse symptoms may include the following: wheezing and breathing difficulties asthma reduced foetal weight increase in foetal deaths skeletal malformations	
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations	

Section 4. First aid measures

Skin	: Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
Eyes	: Adverse symptoms may include the following: pain or irritation watering redness dical attention and special treatment needed, if necessary
Specific treatments	: No specific treatment.
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media	
Suitable	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Not suitable	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. 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 phosphorus oxides metal oxide/oxides
Hazchem code	: 3Y
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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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".		
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.		
Methods and material for con	tainment and cleaning up		
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.		
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.		

Section 7. Handling and storage

Precautions for safe handling	
Protective measures :	Put on appropriate personal protective equipment (see Section 8). 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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. 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.

Section 7. Handling and storage

Conditions for safe storage, : including any incompatibilities	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
xylene	NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020). [Xylene (o-, m-, p- isomers)] Notes: See Notice of Intended Changes. WES-TWA: 217 mg/m ³ , 0 times per shift, 8
	hours. WES-TWA: 50 ppm, 0 times per shift, 8 hours.
n-butyl acetate	NZ HSWA 2015 - GRWM 2016 (New
-	Zealand, 11/2020).
	WES-TWA: 150 ppm 8 hours.
	WES-TWA: 713 mg/m ³ 8 hours.
	WES-STEL: 950 mg/m ³ 15 minutes.
<i>a</i> . n	WES-STEL: 200 ppm 15 minutes.
ethylbenzene	NZ HSWA 2015 - GRWM 2016 (New
	Zealand, 11/2020).
	WES-STEL: 543 mg/m ³ 15 minutes. WES-STEL: 125 ppm 15 minutes.
	WES-TEL. 125 ppm 15 minutes. WES-TWA: 434 mg/m ³ 8 hours.
	WES-TWA: 100 ppm 8 hours.
2-butoxyethanol	NZ HSWA 2015 - GRWM 2016 (New
	Zealand, 11/2020). Absorbed through skin.
	WES-TWA: 121 mg/m ³ 8 hours.
	WES-TWA: 25 ppm 8 hours.
phthalic anhydride	NZ HSWA 2015 - GRWM 2016 (New
	Zealand, 11/2020). Absorbed through skin.
	Skin sensitiser. Inhalation sensitiser.
	WES-TWA: 0.002 ppm 8 hours.
	WES-TWA: 0.01 mg/m ³ 8 hours.
dioctyltin dilaurate	NZ HSWA 2015 - GRWM 2016 (New
	Zealand, 11/2020). [Tin: Organic
	compounds] Absorbed through skin.
	WES-TWA: 0.1 mg/m ³ , (as Sn) 8 hours.
taluana	WES-STEL: 0.2 mg/m ³ , (as Sn) 15 minutes.
toluene	NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020). Absorbed through skin.
	WES-TWA: 188 mg/m ³ 8 hours.
	WES-TWA: 100 mg/m 8 hours. WES-TWA: 50 ppm 8 hours.

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. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Section 8 Expos	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.				
Individual protection meas	<u>ures</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, unless the assessment indicates a higher degree of protection: chemical splash goggles. Recommended: chemical splash goggles and/or face shield.				
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. > 8 hours (breakthrough time): Recommended EN 374 polyvinyl alcohol (PVA) Viton® >= 0.7 mm A hour (breakthrough time): Conditionally suitable materials for protective gloves; EN 374: Nitrile rubber - NBR (>= 0.35 mm). Only suitable as splash protection. Only suitable for brief exposure. In the event of contamination, change protective gloves 				
Body protection	 immediately. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Recommended: Cotton or cotton/synthetic overalls or coveralls are normally suitable. 				
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. 				
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: EN 405:2001 + A1:2009 organic vapour (Type A) and particulate filter FFA2P3 R D				

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	: Liquid.	
Colour	: Colourless.	
Odour	: Hydrocarbon.	
Odour threshold	: Not available.	
рН	: Not applicable) .
Melting point/freezing point	: Not applicable	÷.

Section 9. Physical and chemical properties and safety characteristics

Boiling point, initial boiling point, and boiling range	:	>100°C (>212°F)		
Flash point	:	Closed cup: 28°C (82.4°F)		
Evaporation rate	:	1 (butyl acetate = 1)		
Flammability	:	Not available.		
Lower and upper explosion limit/flammability limit	:	Lower: 0.8% Upper: 7.6%		
Vapour pressure	:	1.3 kPa (10 mm Hg)		
Relative vapour density	1	4 [Air = 1]		
Relative density	:	1.017		
Density	:	1.017 g/cm³		
Solubility(ies)	:			
Media		Result		
cold water hot water		Not soluble Not soluble		
Solubility in water	:	Not applicable.		
Miscible with water	:	No.		
Partition coefficient: n- octanol/water	;	Not applicable.		
Auto-ignition temperature	:	415°C (779°F)		
Decomposition temperature	1	Not applicable.		
Viscosity	:	Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)		
Particle characteristics				
Median particle size	:	Not applicable.		

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.
Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on likely r	outes of exposure	
Inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Ingestion	: No known significant effects or critical hazards.	$\overline{}$
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.	$\overline{}$
Eye contact	: Causes serious eye irritation.	
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.	

Section 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: Adverse symptoms may include the following: wheezing and breathing difficulties asthma reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

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

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours 📃 🥄
	LC50 Inhalation Vapour	Rat - Male	29000 mg/l	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
n-butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
-	LC50 Inhalation Vapour	Rat	>21.1 mg/l	4 hours
	LD50 Dermal	Rabbit	>14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	6350 ppm	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Solvent naphtha (petroleum), heavy arom.	LC50 Inhalation Dusts and mists	Rat	>4688 mg/m ³	4 hours
, ,	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
ethyl 3-ethoxypropionate	LD50 Dermal	Rabbit - Male	4080 mg/kg	-
	LD50 Oral	Rat	3200 mg/kg	-
2-butoxyethanol	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
trizinc bis(orthophosphate)	LC50 Inhalation Dusts and mists	Rat	>5.7 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
bis(1,2,2,6,6-pentamethyl-	LD50 Oral	Rat	>3230 mg/kg	-
4-piperidyl) sebacate				
methyl	LD50 Oral	Rat	>3230 mg/kg	-
1,2,2,6,6-pentamethyl-				
4-piperidyl sebacate				
phthalic anhydride	LD50 Oral	Cat	800 mg/kg	-
	LD50 Oral	Mouse	1500 mg/kg	-
	LD50 Oral	Rat	1530 mg/kg	-
	LD50 Oral	Rat	1530 mg/kg	-
dioctyltin dilaurate	LD50 Oral	Rat	6450 mg/kg	-
toluene	LC50 Inhalation Vapour	Rat	28.1 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	636 mg/kg	-

Section 11. Toxicological information

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
-	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
n-butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
-	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
Solvent naphtha (petroleum),	Skin - Mild irritant	Rabbit	-	24 hours 500	-
heavy arom.				uL	
ethyl 3-ethoxypropionate	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
2-butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
phthalic anhydride	Eyes - Moderate irritant	Rabbit	-	24 hours 50	-
				mg	
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
	The Although and	DULK		100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
		Dia		mg	
	Skin - Mild irritant	Pig	-	24 hours 250	-
	Skin Mild irritant	Dabbit		uL 425 mg	
	Skin - Mild irritant	Rabbit Rabbit	-	435 mg 24 hours 20	-
	Skin - Moderate irritant	Rabbit	-		-
	Skin - Moderate irritant	Rabbit		mg 500 mg	
	Skin - Moderate initalit	Rappir	-	500 mg	-

Sensitisation

Not available.

Potential chronic health effects

: May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
: No known significant effects or critical hazards.
: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
: No known significant effects or critical hazards.
: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
: No known significant effects or critical hazards.
: Suspected of damaging the unborn child.
: No known significant effects or critical hazards.
: Suspected of damaging fertility.

Section 11. Toxicological information

Carcinogenicity

Not available.

Mutagenicity

Not available.

Teratogenicity

Not available.

Reproductive toxicity

Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Solvent naphtha (petroleum), heavy arom. phthalic anhydride	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 2	-	-
ethylbenzene	Category 2	-	-
dioctyltin dilaurate	Category 1	-	-
toluene	Category 2	-	-

Aspiration hazard

Product/ingredient name

Solvent naphtha (petroleum), heavy arom.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
TB510 PU Topcoat Binder DTM High Gloss	2861.2	6469.2	35535.5	211.1	N/A
xylene	500	1100	N/A	29000	N/A
n-butyl acetate	10760	N/A	4500	N/A	N/A
ethylbenzene	3500	12126	N/A	11	N/A
ethyl 3-ethoxypropionate	3200	4080	N/A	N/A	N/A
2-butoxyethanol	1300	N/A	N/A	11	N/A
phthalic anhydride	1530	N/A	N/A	N/A	N/A
dioctyltin dilaurate	6450	N/A	N/A	N/A	N/A
toluene	636	N/A	N/A	11	N/A

Section 12. Ecological information

Ecotoxicity

: This material is toxic to aquatic life with long lasting effects.

Aquatic and terrestrial toxicity

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
xylene	Acute EC50 1 to 10 mg/l	Algae	72 hours 🥄
	Acute EC50 1 to 10 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
n-butyl acetate	Acute EC50 397 mg/l	Algae - Selenastrum	72 hours
II-buly acetate	Acute 2000 397 mg/r	capricornutum	12 110013
	Acute EC50 44 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 18 mg/l	Fish - Pimephales promelas	96 hours
	Acute NOEC 200 mg/l	Algae	72 hours
ethylbenzene	Acute EC50 4900 µg/l Marine water	Algae - Skeletonema costatum	72 hours
-	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Solvent naphtha (petroleum), heavy arom.	Acute EC50 11 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
neavy aronn.	Acute EC50 3 to 10 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 2 to 5 mg/l	Fish - Oncorhynchus mykiss	96 hours
ethyl 3-ethoxypropionate	Acute EC50 114.86 mg/l	Aquatic plants -	72 hours
		Pseudokirchneriella subcapitata	
	Acute EC50 785 to 970 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 88 mg/l	Fish - Pimephales promelas	96 hours
2-butoxyethanol	Acute EC50 911 mg/l	Algae - Pseudokrichneriella subcapitata	72 hours
	Acute EC50 1550 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 1474 mg/l	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 100 mg/l	Daphnia - Daphnia magna	21 days
	Chronic NOEC >100 mg/l	Fish - Brachydanio rerio	21 days
trizinc bis(orthophosphate)	Acute EC50 63.1 mg/l	Daphnia - Daphnia magna	48 hours
······	Acute LC50 90 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	Acute EC50 0.22 mg/l	Algae	72 hours
	Acute LC50 0.9 mg/l	Fish	96 hours
	Acute NOEC 6.3 mg/l	Daphnia	21 days
methyl	Acute EC50 0.22 mg/l	Algae	72 hours
1,2,2,6,6-pentamethyl- 4-piperidyl sebacate		, "guo	
pipenuyi sebacale	Acute LC50 0.9 mg/l	Fish	96 hours
	Acute NOEC 6.3 mg/l	Daphnia	21 days
toluene	Acute EC50 12.5 mg/l	Algae	72 hours
	Acute EC50 >433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus	48 hours
	Aguta EC50 3.8 mg/l	pseudolimnaeus - Adult Daphnia - Daphnia magna	48 hours
	Acute EC50 3.8 mg/l		48 hours 96 hours
	Acute LC50 5.5 mg/l Chronic NOEC 1000 µg/l Fresh water	Fish - Oncorhynchus kisutch Daphnia - Daphnia magna	
	Chronic NOEC 1000 µg/l Fresh Water	Daprinia - Daprinia magna	21 days

Persistence/degradability

Section 12. Ecological information

Product/ingredient name	Test	Result		Dose	Inoculum
n-butyl acetate	OECD 301D Ready Biodegradability - Closed Bottle Test	>80 % - 5 days		-	-
Solvent naphtha (petroleum), heavy arom.	-	50 % - Readily - 28	days	-	Fresh water
ethyl 3-ethoxypropionate	OECD 301B Ready Biodegradability - CO2 Evolution Test	100 % - Readily - 18		-	-
2-butoxyethanol	-	90.4 % - Readily - 2	8 days	-	-
Product/ingredient name	Aquatic half-life		Photolysis	\$	Biodegradability
n-butyl acetate Solvent naphtha (petroleum), heavy arom.	-		-		Readily Readily
ethyl 3-ethoxypropionate 2-butoxyethanol toluene	- - -		- - -		Readily Readily Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	8.1 to 25.9	low 🔍
n-butyl acetate	2.3	-	low
ethylbenzene	3.6	-	low
Solvent naphtha (petroleum),	2.8 to 6.5	99 to 5780	high
heavy arom.			Ũ
ethyl 3-ethoxypropionate	1.47	-	low
2-butoxyethanol	0.81	-	low
trizinc bis(orthophosphate)	-	60960	high
phthalic anhydride	1.6	3.4	low
dioctyltin dilaurate	-	<100	low
toluene	2.73	90	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

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

Section 13. Disposal considerations

sewers.

Section 14. Transport information				
		New Zealand	IMDG	IATA
UN number	UN1263		UN1263	UN1263
UN proper shipping name	PAINT		PAINT	Paint
Transport hazard class(es)	3			3
Packing group	111		111	III
Environmental hazards	Yes.		Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional informa	tion			1
New Zealand IMDG		Hazchem code Special provisi The marine poll	3Y i ons 163, 223 utant mark is not required wh	en transported by road or rail. nen transported in sizes of ≤5 L or ≤5 kg.
			<u>hedules</u> F-E, _S-E_ i <u>ons</u> 163, 223, 367, 955	
ΙΑΤΑ		: The environmer transportation re <u>Quantity limita</u> 355. Cargo Airo Passenger Airor	ntally hazardous substance m egulations. <u>tion</u> Passenger and Cargo A	nark may appear if required by other ircraft: 60 L. Packaging instructions: instructions: 366. Limited Quantities - ons: Y344.
Special precautions	s for user	upright and sec		transport in closed containers that are sporting the product know what to do in
Transport in bulk according : Not available.				

to IMO instruments

Section 15. Regulatory information

U	
HSNO Approval Number	: HSR002669
HSNO Group Standard	: Surface Coatings and Colourants
HSNO Classification	 FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 RESPIRATORY SENSITISATION - Category 1 SKIN SENSITISATION - Category 1 CARCINOGENICITY - Category 2 REPRODUCTIVE TOXICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
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International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Section 15. Regulatory information

Montreal Protocol		
Not listed.		
Stockholm Convention on F	<u>Per</u>	sistent Organic Pollutants
Not listed.		
Rotterdam Convention on P	ric	or Informed Consent (PIC)
Not listed.		
UNECE Aarhus Protocol on	PC	DPs and Heavy Metals
Not listed.		
Inventory list		
Australia	:	All components are listed or exempted.
Canada	;	At least one component is not listed in DSL but all such components are listed in NDSL.
China	:	All components are listed, exempted, or notified.
Eurasian Economic Union	:	Russian Federation inventory: Not determined.
Japan	1	Japan inventory (CSCL): At least one component is not listed. Japan inventory (ISHL): Not determined.
New Zealand	:	All components are listed or exempted.
Philippines	:	All components are listed or exempted.
Republic of Korea	:	All components are listed or exempted.
Taiwan	:	At least one component is not listed.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States	:	All components are active or exempted.
Viet Nam	:	Not determined.

Section 16. Other information

<u>History</u>	
Date of printing	: 12/16/2022
Date of issue/Date of revision	: 12/16/2022
Date of previous issue	: 12/16/2022
Version	: 1
Key to abbreviations	 ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail SGG = Segregation Group UN = United Nations
References	: Not available.
Indicates information th	at has changed from previously issued version.
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Notice to reader

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.