SAFETY DATA SHEET



MM 500 BeroBase 500 Series White

Section 1. Identification		
Product name	: MM 500 BeroBase 500 Series White	
Product type	: Liquid.	
Relevant identified uses of	the substance or mixture and uses advised against	
Identified uses		
Use in coatings - Basecoat		
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	: New Zealand Poisons Information Centre: 0800 764766 (24 hrs)	
number (with hours of operation)	CALL: +(64)-98010034 (Hours of operation - 24 hours)	
e-mail address of person responsible for this SDS	: msds@de-beer.com	
Section 2. Hazard	Is identification	
HSNO Classification	: FLAMMABLE LIQUIDS - Category 3	

HONO Classification	FLAMMADLE LIQUIDS - Calegory 5
	ACUTE TOXICITY (inhalation) - Category 4
	EYE IRRITATION - Category 2
	CARCINOGENICITY - Category 2
	REPRODUCTIVE TOXICITY - Category 2
	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

This material is classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

This material is classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

GHS label elements

Signal word

: Warning

Section 2. Hazards identification

Hazard statements	: Flammable liquid and vapour.
	Causes serious eye irritation. Harmful if inhaled.
	Suspected of causing cancer.
	Suspected of damaging fertility or the unborn child.
	May cause damage to organs through prolonged or repeated exposure. Harmful 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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapour. Wash thoroughly after handling.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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
n-butyl acetate	≥10 - ≤30	123-86-4
xylene	≤8.7	1330-20-7
2-methoxy-1-methylethyl acetate	≤10	108-65-6
ethylbenzene	≤3	100-41-4
butan-1-ol	≤1.2	71-36-3
propylidynetrimethanol	≤0.3	77-99-6
Formaldehyde, solution	<0.1	50-00-0

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

Most important symptoms/effects, acute and delayed

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.
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	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. 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.

Potential acute health effe	<u>cts</u>
Inhalation	: Harmful if inhaled.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Eye contact	: Causes serious eye irritation.
Over-exposure signs/sym	<u>ptoms</u>
Inhalation	: Adverse symptoms may include the following: 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	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Eyes	: Adverse symptoms may include the following: pain or irritation watering redness
Indication of immediate me	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.
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Section 4. First aid measures

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 harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide 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.

Section 6. Accidental release measures

Personal precautions, protect	tiv	e 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.
Methods and material for cor	nta	inment 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.

Section 6. Accidental release measures

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). 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.
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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 4/2022). WES-TWA: 150 ppm 8 hours.
WES-TWA: 713 mg/m ³ 8 hours. WES-STEL: 950 mg/m ³ 15 minutes. WES-STEL: 200 ppm 15 minutes. HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 4/2022). [xylene (o-, m-, p- isomers)] Notes: See Notice of Intended Changes. WES-TWA: 217 mg/m ³ , 0 times per shift, 8 hours.
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Section 8. Exposure controls/personal protection

	WES-TWA: 50 ppm, 0 times per shift, 8
	hours.
2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK),
	1/2020). Absorbed through skin.
	STEL: 548 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 274 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
ethylbenzene	HSWA 2015 - HSW (GRWM) 2016.
	Workplace exposure standards (WES)
	(New Zealand, 4/2022). Absorbed through
	skin.
	WES-STEL: 176 mg/m ³ 15 minutes.
	WES-STEL: 40 ppm 15 minutes.
	WES-TWA: 88 mg/m ³ 8 hours.
	WES-TWA: 20 ppm 8 hours.
butan-1-ol	HSWA 2015 - HSW (GRWM) 2016.
	Workplace exposure standards (WES)
	(New Zealand, 4/2022). Absorbed through
	skin.
	WES-Ceiling: 150 mg/m ³
	WES-Ceiling: 50 ppm
Formaldehyde, solution	HSWA 2015 - HSW (GRWM) 2016.
	Workplace exposure standards (WES)
	(New Zealand, 4/2022). Skin sensitiser.
	WES-TWA: 0.3 ppm 8 hours.
	WES-STEL: 0.6 ppm 15 minutes.

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.
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.
Individual protection measur	es	
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. 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) butyl rubber >= 0.7 mm < 1 hour (breakthrough time): Conditionally suitable materials for protective gloves;

Section 8. Exposure controls/personal protection

	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 immediately.
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. 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	: L	.iquid.				
Colour	: V	Vhite.				
Odour	: H	lydrocarbon.				
Odour threshold	: N	Not available.				
рН	: N	Not applicable.				
Melting point/freezing point	: N	Not applicable.				
Boiling point, initial boiling point, and boiling range	: >	•100°C (>212°F)				
Flash point	: C	Closed cup: 25°C (77°F)				
Evaporation rate	: 1	(butyl acetate = 1)				
Flammability	: N	Not available.				
Lower and upper explosion limit/flammability limit		: Lower: 1% Upper: 13.1%				
Vapour pressure	: 1	: 1.3 kPa (10 mm Hg)				
Relative vapour density	: 1	: 1.34 [Air = 1]				
Relative density	: 1	: 1.334				
Density	: 1	.334 g/cm³				
Solubility(ies)	:					
Media		Result				
cold water hot water		Not soluble Not soluble				
Solubility in water	: N	Not applicable.				
Miscible with water	: N	No.				
Partition coefficient: n- octanol/water	: N	Not applicable.				
Auto-ignition temperature	: 415°C (779°F)					
Decomposition temperature	: Not applicable.					
Heat of combustion	: 1	2.887 kJ/g				
Viscosity	: K	Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)				
Particle characteristics						
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Section 9. Physical and chemical properties and safety 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 routes of exposure

Inhalation	: Harmful if inhaled.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Eye contact	: Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: Adverse symptoms may include the following: 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: reduced foetal weight increase in foetal deaths skeletal malformations
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

<u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u> <u>Acute toxicity</u>

Section 11. Toxicological information

Product/ingredient name	Result		Species		Dose	•	Exposure
n-butyl acetate	LC50 Inhalation Gas. F		Rat	390 p		ppm -	4 hours
-	LC50 Inhalation Vapour		Rat		>21.7	mg/l	4 hours
	LD50 Dermal		Rabbit		>141	12 mg/kg	-
	LD50 Oral		Rat		1076	0 mg/kg	-
xylene	LC50 Inhalation Gas.		Rat		5000		4 hours
	LC50 Inhalation Vapour		Rat - Ma	le			4 hours
	LD50 Dermal		Rabbit			6 mg/kg	-
	LD50 Oral		Rat		4300	mg/kg	-
2-methoxy-1-methylethyl acetate	LD50 Dermal		Rabbit		>5 g/		-
	LD50 Dermal		Rat		>500	0 mg/kg	-
	LD50 Oral		Rat			mg/kg	-
ethylbenzene	LC50 Inhalation Vapour		Rat		6350		4 hours
	LD50 Dermal		Rabbit			6 mg/kg	-
	LD50 Oral		Rat			mg/kg	-
butan-1-ol	LC50 Inhalation Vapour		Rat				4 hours
	LD50 Dermal		Rabbit			mg/kg	-
	LD50 Oral		Rat			ng/kg	-
propylidynetrimethanol	LD50 Oral		Rat			0 mg/kg	-
Formaldehyde, solution	LC50 Inhalation Gas.		Rat		250 p		4 hours
3	LD50 Dermal		Rabbit			ng/kg	-
	LD50 Oral		Rat			ng/kg	-
rritation/Corrosion			I		1		
Product/ingredient name	Result	Spec	cies	Score		Exposure	Observation
n-butyl acetate	Eyes - Moderate irritant	Rabb	oit	-		100 mg	-
·····	Skin - Moderate irritant	Rabb		-		24 hours 500	_
						mg	
xylene	Eyes - Mild irritant	Rabb	oit	-		87 mg	-
	Eyes - Severe irritant	Rabb		-		24 hours 5	-
	_,					mg	
	Skin - Mild irritant	Rat		-		8 hours 60 ul	-
	Skin - Moderate irritant	Rab	oit	-		100 %	- _
	Skin - Moderate irritant	Rabb		-		24 hours 500	-
		1 (0.0)				mg	
ethylbenzene	Eyes - Severe irritant	Rabb	oit	_		500 mg	-
	Skin - Mild irritant	Rab		_		24 hours 15	-
		- Cabl				mg	
butan-1-ol	Eyes - Severe irritant	Rabb	oit	_		0.005 MI	-
	Eyes - Severe irritant	Rab		_		24 hours 2	-
		Tabl				mg	
	Skin - Moderate irritant	Rabb	bit	-		24 hours 20	-
Formaldehyde, solution	Eyes - Mild irritant	Hum	an	-		mg 6 minutes 1	-

Rabbit

Rabbit

Human

Rabbit

Rabbit

Human

Rabbit

Rabbit

Eyes - Severe irritant

Eyes - Severe irritant

Skin - Moderate irritant

Skin - Severe irritant

Skin - Severe irritant

Skin - Severe irritant

Skin - Mild irritant

Skin - Mild irritant

Not available.

Potential chronic health effects

ppm

750 ug

540 mg

0.01 %

0.8 %

ug

ug l

mg

mg

24 hours 750

72 hours 150

24 hours 50

24 hours 2

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Section 11. Toxicological information

General	May cause damage to organs through prolonged or repeated exposure.	
Inhalation	No known significant effects or critical hazards.	
Ingestion	No known significant effects or critical hazards.	
Skin contact	No known significant effects or critical hazards.	
Eye contact	No known significant effects or critical hazards.	
Carcinogenicity	Suspected of causing cancer. Risk of cancer depends on duration and level o exposure.	ſ
Mutagenicity	No known significant effects or critical hazards.	
Teratogenicity	Suspected of damaging the unborn child.	
Developmental effects	No known significant effects or critical hazards.	
Fertility effects	Suspected of damaging fertility.	
Chronic toxicity		
Not available.		
Carcinogenicity		
Not available.		

Mutagenicity

Not available.

Teratogenicity

Not available.

Reproductive toxicity

Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name		Route of exposure	Target organs
butan-1-ol	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	•••	Route of exposure	Target organs
xylene	Category 2	-	-
ethylbenzene	Category 2	-	-
Formaldehyde, solution	Category 2	-	-

Aspiration hazard

Not available.

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)
MM 500 BeroBase 500 Series White n-butyl acetate xylene 2-methoxy-1-methylethyl acetate ethylbenzene butan-1-ol propylidynetrimethanol Formaldehyde, solution	5568.8 10760 500 8532 3500 790 14000 100	13389.2 N/A 1100 N/A 12126 3400 N/A 270	16290.5 4500 N/A N/A N/A N/A N/A 250	644.4 N/A 29000 N/A 11 24 N/A N/A	N/A N/A N/A N/A N/A N/A N/A

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Section 11. Toxicological information

Section 12. Ecological information

Ecotoxicity

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

Product/ingredient name	Result	Species	Exposure
n-butyl acetate	Acute EC50 397 mg/l	Algae - Selenastrum capricornutum	72 hours
	Acute EC50 44 mg/l	Daphnia - <i>Daphnia magna</i>	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
xylene	Acute EC50 1 to 10 mg/l	Algae	72 hours
,	Acute EC50 1 to 10 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
2-methoxy-1-methylethyl acetate	Acute EC50 >1000 mg/l	Algae - Pseudokirchnerella subcapitata	96 hours
	Acute EC50 408 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 134 mg/l	Fish - Oncorhynchus mykiss	96 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 - <i>Artemia sp.</i> - Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
butan-1-ol	Acute EC50 225 mg/l	Algae - Desmodesmus subspicatus	96 hours
	Acute EC50 1328 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 1376 mg/l	Fish - Pimephales promelas	96 hours
	Chronic NOEC 4.1 mg/l	Daphnia - <i>Daphnia magna</i>	21 days
propylidynetrimethanol	Acute EC50 13000000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 14400000 µg/l Marine water	Fish - Cyprinodon variegatus	96 hours
Formaldehyde, solution	Acute EC50 3.48 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 0.442 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 3.26 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Embryo	48 hours
	Acute LC50 11.41 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 1.41 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.005 mg/l Marine water	Algae - <i>Isochrysis galbana</i> - Exponential growth phase	96 hours
	Chronic NOEC 3000 ppm Fresh water	Crustaceans - <i>Astacus astacus</i> - Egg	21 days
	Chronic NOEC 0.81 to 1.07 mg/l Chronic NOEC 1.56 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> Fish - <i>Oreochromis niloticus</i> - Fingerling	21 days 12 weeks

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	-	-
2-methoxy-1-methylethyl acetate	OECD 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test	100 % - 28 days	-	-
	OECD 301F Ready Biodegradability - Manometric Respirometry Test	83 % - 28 days	-	-
butan-1-ol	OECD 301E Ready Biodegradability - Modified OECD Screening Test	>70 % - 19 days	-	-
Product/ingredient name	Aquatic half-life		Photolysis	Biodegradability
n-butyl acetate 2-methoxy-1-methylethyl acetate	-		-	Readily Readily
butan-1-ol	-		-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-butyl acetate	2.3	-	Low
xylene	3.12	8.1 to 25.9	Low
2-methoxy-1-methylethyl acetate	1.2	-	Low
ethylbenzene	3.6	-	Low
butan-1-ol	1	-	Low
propylidynetrimethanol	-0.47	<1	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. 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

Section 13. Disposal considerations

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 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	3
Packing group	Ш	111	111
Environmental hazards	No.	No.	No.

Additional information

New Zealand	:	Hazchem code 3Y Special provisions 163, 223
IMDG	:	Emergency schedules F-E, _S-E_ Special provisions 163, 223, 955
ΙΑΤΑ	:	Quantity limitation Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344. Special provisions A3, A72
Special precautions for user	:	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.
Transport in bulk according		Not available

Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

HSNO Approval Number	: HSR002669
HSNO Group Standard	: Surface Coatings and Colourants
HSNO Classification	 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2 CARCINOGENICITY - Category 2 REPRODUCTIVE TOXICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

International regulations

<u>Chemical Weapon Convention List Schedules I, II & III Chemicals</u> Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list	
Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Eurasian Economic Union	: Russian Federation inventory: Not determined.
Japan	 Japan inventory (CSCL): All components are listed or exempted. 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	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

Section 16. Other information

History	
Date of printing	: 11/7/2023
Date of issue/Date of revision	: 11/7/2023
Date of previous issue	: 8/23/2023
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 that has changed from previously issued version.

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.