# **SAFETY DATA SHEET**



SP4496 MS Clear Coat 2:1

Section 1. Identification		
Product name	: SP4496 MS Clear Coat 2:1	
Product type	: Liquid.	
Relevant identified uses of	f the substance or mixture and uses advised against	
Identified uses		
Use in coatings - Clearcoat		
<u>Supplier</u>		
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 6 Killarney Lane Hamilton 3204 NEW ZEALAND T: +64 7847 0944 E: info@dbnz.co.nz	
Emergency telephone number (with hours of	: New Zealand Poisons Information Centre: 0800 764766 (24 hrs)	
operation) e-mail address of person responsible for this SDS	CALL: +(64)-98010034 (Hours of operation - 24 hours) : msds@de-beer.com	

### Section 2. Hazards identification

HSNO Classification	: 3.1 - FLAMMABLE LIQUIDS - Category C
	6.1 - ACUTE TOXICITY (oral) - Category E
	6.3 - SKIN IRRITATION - Category A
	6.4 - EYE IRRITATION - Category A (Irritant)
	6.5 - SENSITIZATION - Category B (Skin)
	6.7 - CARCINOGENICITY - Category B
	6.8 - REPRODUCTIVE AND DEVELOPMENTAL TOXICITY - Category B
	6.9 - SPECIFIC TARGET ORGAN TOXICITY (SINGLE OR REPEATED
	EXPOSURE) - Category B
	9.1 - AQUATIC ECOTOXICITY - Category C

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and has been classified according to the Hazardous Substances (Classifications) Regulations 2001.

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	<ul> <li>Flammable liquid and vapour. May be harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs. Harmful to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye/face protection. Keep away from ignition sources such as heat/sparks/open flame No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Avoid release to the environment. Do not breathe vapour or spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Take off contaminated clothing and wash before reuse. Rinse skin with water [or shower]. Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. Get medical advice/attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
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
2-methoxy-1-methylethyl acetate	12.5 - 25	108-65-6
xylene	12.5 - 25	1330-20-7
n-butyl acetate	5 - 12.5	123-86-4
ethylbenzene	1 - 5	100-41-4
isobutyl acetate	1 - 5	110-19-0
Solvent naphtha (petroleum), light arom.	1 - 5	64742-95-6
1,2,4-trimethylbenzene	1 - 5	95-63-6
Poly(oxy-1,2-ethanediyl), α-	0 - 1	104810-48-2
[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-		
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0 - 1	41556-26-7
Hydroxyphenyl-benzotriazole derivate II	0 - 1	104810-47-1
methyl methacrylate	0 - 1	80-62-6
2-hydroxyethyl methacrylate	0 - 1	868-77-9

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	id measure	<u>95</u>
Inhalation	If not brea artificial re person pro unconscio	ictim to fresh air and keep at rest in a position comfortable for breathing. thing, if breathing is irregular or if respiratory arrest occurs, provide spiration or oxygen by trained personnel. It may be dangerous to the oviding aid to give mouth-to-mouth resuscitation. Get medical attention. If us, place in recovery position and get medical attention immediately. n open airway. Loosen tight clothing such as a collar, tie, belt or
Ingestion	and keep a swallowed drink. Sto induce vor the head s attention. place in re	mouth with water. Remove dentures if any. Remove victim to fresh air at rest in a position comfortable for breathing. If material has been and the exposed person is conscious, give small quantities of water to p if the exposed person feels sick as vomiting may be dangerous. Do not niting unless directed to do so by medical personnel. If vomiting occurs, hould be kept low so that vomit does not enter the lungs. Get medical Never give anything by mouth to an unconscious person. If unconscious, covery position and get medical attention immediately. Maintain an open posen tight clothing such as a collar, tie, belt or waistband.
Skin contact	shoes. Wa wear glove the event o	aminated skin with plenty of water. Remove contaminated clothing and ash contaminated clothing thoroughly with water before removing it, or es. Continue to rinse for at least 10 minutes. Get medical attention. In of any complaints or symptoms, avoid further exposure. Wash clothing se. Clean shoes thoroughly before reuse.
Eye contact	eyelids. C	ly flush eyes with plenty of water, occasionally lifting the upper and lower heck for and remove any contact lenses. Continue to rinse for at least 10 Get medical attention.
Most important symptoms/e	<u>cts, acute a</u>	nd delayed
Potential acute health effect		
Inhalation		significant effects or critical hazards.
Ingestion	•	rmful if swallowed.
Skin contact		in irritation. May cause an allergic skin reaction.
Eye contact		rious eye irritation.
Over-exposure signs/symp		
Inhalation	reduced for increase in	ymptoms may include the following: netal weight n foetal deaths alformations
Ingestion	reduced for increase in	ymptoms may include the following: hetal weight n foetal deaths alformations
Skin	irritation redness reduced fo increase ir	ymptoms may include the following: netal weight n foetal deaths alformations
Eyes	pain or irri watering redness	
Indication of immediate med	attention	and special treatment needed, if necessary
Specific treatments	Not availal	ble.
Notes to physician		c treatment. Treat symptomatically. Contact poison treatment specialist ly if large quantities have been ingested or inhaled.

# Section 4. First aid measures

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.

#### See toxicological information (Section 11)

### Section 5. Firefighting measures

Extinguishing media		
Suitable	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.	
Not suitable	Do not use water jet.	
Specific hazards arising from the chemical	Flammable liquid and vapour. In a fire or if heated, a pressure increase will occ and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is harmful to aquatic li with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain	fe
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide	
Hazchem code	3Y	
Special precautions for fire- fighters	Promptly isolate the scene by removing all persons from the vicinity of the incide 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, protective equipment and emergency procedures	: 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 (see Section 8).		
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	tainment and cleaning up		
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.		
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.		

# Section 7. Handling and storage

	<u> </u>	0
Precautions for safe handling	:	Put on appropriate personal protective equipment (see Section 8). 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. Persons with a history of skin sensitization problems 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 get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
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. 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**

Ingredient name	Exposure limits
2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed through skin. STEL: 548 mg/m <sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. TWA: 274 mg/m <sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes.
xylene	NZ HSWA 2015 (New Zealand, 11/2018). Notes: See Notice of Intended Changes. WES-TWA: 217 mg/m <sup>3</sup> , 0 times per shift, 8 hours. WES-TWA: 50 ppm, 0 times per shift, 8 hours.
n-butyl acetate	NZ HSWA 2015 (New Zealand, 11/2018). WES-TWA: 150 ppm 8 hours. WES-TWA: 713 mg/m <sup>3</sup> 8 hours. WES-STEL: 950 mg/m <sup>3</sup> 15 minutes. WES-STEL: 200 ppm 15 minutes.
ethylbenzene	NZ HSWA 2015 (New Zealand, 11/2018). WES-STEL: 543 mg/m <sup>3</sup> 15 minutes. WES-STEL: 125 ppm 15 minutes. WES-TWA: 434 mg/m <sup>3</sup> 8 hours. WES-TWA: 100 ppm 8 hours.
isobutyl acetate	NZ HSWA 2015 (New Zealand, 11/2018). WES-TWA: 713 mg/m <sup>3</sup> 8 hours. WES-TWA: 150 ppm 8 hours.
1,2,4-trimethylbenzene	NZ HSWA 2015 (New Zealand, 11/2018). WES-TWA: 25 ppm 8 hours. WES-TWA: 123 mg/m <sup>3</sup> 8 hours.
orgion : 1	Pate of issue/Date of revision + 12/18/202

# Section 8. Exposure controls/personal protection

methyl methacrylate			NZ HSWA 2015 (New Zealand, 11/2018). Absorbed through skin. Skin sensitiser. WES-STEL: 416 mg/m <sup>3</sup> 15 minutes. WES-STEL: 100 ppm 15 minutes. WES-TWA: 208 mg/m <sup>3</sup> 8 hours. WES-TWA: 50 ppm 8 hours.
Appropriate engineering controls	:	contaminants below any recommende	ols to keep worker exposure to airborne ed or statutory limits. The engineering controls t concentrations below any lower explosive
Environmental exposure controls	:		
Individual protection measu	<u>ires</u>		
Hygiene measures	:	eating, smoking and using the lavator Appropriate techniques should be use Contaminated work clothing should no	bughly after handling chemical products, before y and at the end of the working period. ed to remove potentially contaminated clothing. bt be allowed out of the workplace. Wash Ensure that eyewash stations and safety location.
Respiratory protection	:	standard if a risk assessment indicate be based on known or anticipated exp	ir-fed respirator complying with an approved es this is necessary. Respirator selection must posure levels, the hazards of the product and respirator. Recommended: EN 405:2001 + particulate filter FFA2P3 R D
Hand protection	:	be worn at all times when handling ch this is necessary. Considering the pa check during use that the gloves are a should be noted that the time to break different for different glove manufactu several substances, the protection tim estimated. > 8 hours (breakthrough ti (PVA) Viton® >= 0.7 mm < 1 hour (breakthrough time): Condition EN 374: Nitrile rubber - NBR (>= 0.35	s complying with an approved standard should emical products if a risk assessment indicates rameters specified by the glove manufacturer, still retaining their protective properties. It athrough for any glove material may be rers. In the case of mixtures, consisting of the of the gloves cannot be accurately ime): Recommended EN 374 polyvinyl alcohol onally suitable materials for protective gloves; mm). Only suitable as splash protection. Only int of contamination, change protective gloves
Eye protection	:	assessment indicates this is necessar gases or dusts. If contact is possible,	proved standard should be used when a risk ry to avoid exposure to liquid splashes, mists, the following protection should be worn, gher degree of protection: chemical splash plash goggles and/or face shield.
Skin protection	:	being performed and the risks involve before handling this product. When the wear anti-static protective clothing. For discharges, clothing should include an	

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Clear.
Odour	: Not available.
Odour threshold	: Not available.

## Section 9. Physical and chemical properties

		· · ·
рН	1	Not applicable.
Melting point	1	Not available.
Boiling point	1	>100°C (>212°F)
Flash point	:	Closed cup: 27.5°C (81.5°F)
Evaporation rate	1	Not available.
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Vapour pressure	1	Not available.
Vapour density	1	Not available.
Relative density	1	0.98
Solubility	1	Insoluble in the following materials: cold water and hot water.
Solubility in water	1	Not available.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	1	350°C (662°F)
Decomposition temperature	1	Not available.
Viscosity	1	Kinematic (40°C (104°F)): 0.06 cm²/s (6 cSt)
Flow time (ISO 2431)	1	Not available.
Aerosol product		
Type of aerosol	1	Not applicable.
Heat of combustion	1	Not available.
Ignition distance	1	Not applicable.
Enclosed space ignition - Time equivalent	1	Not applicable.
Enclosed space ignition - Deflagration density	1	Not applicable.
Flame height	:	Not applicable.
Flame duration	:	Not applicable.

# Section 10. Stability and reactivity

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.	Ι,
Incompatible materials	<ul> <li>Reactive or incompatible with the following materials: oxidising materials</li> </ul>	
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	: No known significant effects or critical hazards.
Ingestion	: May be harmful if swallowed.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.
Symptoms related to	the physical, chemical and toxicological characteristics

# Section 11. Toxicological information

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: 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
2-methoxy-1-methylethyl	LD50 Dermal	Rat	>5000 mg/kg	-
acetate				
	LD50 Oral	Rat - Female	>5000 mg/kg	-
xylene	LC50 Inhalation Gas.	Rat	6350 ppm	4 hours
-	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3523 to 4000	-
			mg/kg	
n-butyl acetate	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	3523 to 4000	-
			mg/kg	
isobutyl acetate	LD50 Dermal	Rabbit	>17400 mg/kg	-
	LD50 Oral	Rat	13400 mg/kg	-
Solvent naphtha (petroleum), light arom.	LC50 Inhalation Vapour	Rat	>6193 mg/m³	4 hours
light arom.	LD50 Dermal	Rabbit	>3160 mg/kg	
	LD50 Oral	Rat	3592 mg/kg	
1,2,4-trimethylbenzene	LD50 Oral	Rat	>5000 mg/kg	
Poly(oxy-1,2-ethanediyl), α-	LD50 Dermal	Rat	>2000 mg/kg	
[3-[3-(2H-benzotriazzi-2-yi)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-	ED00 Definidi	i tat	2000 mg/kg	
	LD50 Oral	Rat	>5000 mg/kg	_
bis(1,2,2,6,6-pentamethyl-	LD50 Oral	Rat	>3230 mg/kg	
4-piperidyl) sebacate		ixat	20200 mg/kg	_
Hydroxyphenyl-	LD50 Dermal	Rat	>2000 mg/kg	_
benzotriazole derivate II		i tut	2000 mg/ng	
	LD50 Oral	Rat	>5000 mg/kg	_
methyl methacrylate	LC50 Inhalation Vapour	Rat - Male,	29.8 mg/l	4 hours
		Female	_0.0 mg/i	
	LD50 Dermal	Rabbit	5000 mg/kg	-
	LD50 Oral	Rat	7872 mg/kg	-
2-hydroxyethyl methacrylate	LD50 Dermal	Rabbit	>3000 mg/kg	-
,	LD50 Oral	Rat	5050 mg/kg	-

#### Irritation/Corrosion

# Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Mild irritant	Rat	-	8 hours 60	-
				microliters	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	100 Percent	-
	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				milligrams	
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				milligrams	
isobutyl acetate	Eyes - Moderate irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	500	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				milligrams	

#### **Sensitisation**

Not available.

#### Potential chronic health effects

General	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	<ul> <li>Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li> </ul>
Eye contact	: No known significant effects or critical hazards.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: Suspected of damaging the unborn child.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: Suspected of damaging fertility.
Chronic toxicity	
Not available.	
Carcinogenicity	
Not available.	
Mutagenicity	
Not available.	
NUL AVAIIADIE.	
<u>Teratogenicity</u>	
Not available.	
Reproductive toxicity	

Not available.

Version

Specific target organ toxicity

: 1

# Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
xylene ethylbenzene 1,2,4-trimethylbenzene methyl methacrylate	Category B Category B Category B Category B	Oral Inhalation Inhalation Inhalation Inhalation	Not determined Not determined Not determined Not determined Not determined

#### **Aspiration hazard**

#### Name

Solvent naphtha (petroleum), light arom.

#### **Numerical measures of toxicity**

#### Acute toxicity estimates

Route	ATE value	
Oral	2740.98 mg/kg	
Dermal	7575.76 mg/kg	
Inhalation (vapours)	196.14 mg/l	
Inhalation (dusts and mists)	15 mg/l	

# Section 12. Ecological information

#### Ecotoxicity

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

#### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
2-methoxy-1-methylethyl	Acute EC50 >1000 mg/l	Algae - Pseudokirchnerella	96 hours
acetate		subcapitata	
	Acute EC50 408 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 134 mg/l	Fish - Oncorhynchus mykiss	96 hours
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 1 to 10 mg/l	Fish	96 hours
n-butyl acetate	Acute EC50 397 mg/l	Algae - Selenastrum	72 hours
	C C	capricornutum	
	Acute EC50 44 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 32 mg/l	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 LC50 >10 mg/l	Fish - Pimephales promelas	96 hours
Solvent naphtha (petroleum),	Acute EC50 2.9 mg/l	Algae - Pseudokirchneriella	72 hours
light arom.		subcapitata	
	Acute EC50 3.2 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 9.2 mg/l	Fish - Oncorhynchus mykiss	96 hours
	Acute NOEC >1 mg/l	Algae - Pseudokirchneriella	72 hours
	· · · · · · · · · · · · · · · · · · ·	subcapitata	
1,2,4-trimethylbenzene	Acute EC50 1 to 10 mg/l	Fish	96 hours
Poly(oxy-1,2-ethanediyl), α- [3-[3-(21-berzotriazot-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxpropyl]-ω-hydroxy-	Acute LC50 2.8 mg/l	Fish	96 hours
[3-[3-(2+benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy-			
bis(1,2,2,6,6-pentamethyl-	Acute EC50 0.22 mg/l	Algae	72 hours
4-piperidyl) sebacate		Fish	
	Acute LC50 0.9 mg/l	Fish	96 hours
	Acute NOEC 6.3 mg/l	Daphnia	21 days
Hydroxyphenyl-benzotriazole derivate II	Acute LC50 2.8 mg/l	Fish	96 hours
methyl methacrylate	Acute EC50 >110 mg/l Fresh water	Algae - Pseudokirchnerella subcapitata	72 hours
	Acute EC50 69 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 130 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute NOEC 49 mg/l Fresh water	Algae - Pseudokirchnerella	72 hours

Page: 11/14

# Section 12. Ecological information

		subcapitata	
	Chronic NOEC 37 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 9.4 mg/l Fresh water	Fish - Danio rerio	35 days
2-hydroxyethyl methacrylate	Acute EC50 345 mg/l	Algae - Selenastrum	72 hours
		capricornutum	
	Acute EC50 210 mg/l	Crustaceans	48 hours
	Acute EC50 380 mg/l	Daphnia	48 hours
	Acute LC50 227 mg/l	Fish	96 hours
	Acute NOEC 160 mg/l	Algae - Selenastrum	72 hours
		capricornutum	
	Acute NOEC 25 mg/l	Fish - Oryzias latipes	14 days
	Chronic NOEC 24.1 mg/l	Daphnia	21 days

#### Persistence/degradability

Product/ingredient name	Test	Result	0	ose	Inoculum
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	-		-
n-butyl acetate	OECD 301D Ready Biodegradability - Closed Bottle Test	>80 % - 5 days	-		-
Solvent naphtha (petroleum), light arom.	-	78 % - Readily - 28	days -		Fresh water
2-hydroxyethyl methacrylate	OECD 301E Ready Biodegradability - Modified OECD Screening Test	98 % - Readily - 28	days -		-
	OECD 301C Ready Biodegradability - Modified MITI Test (I)	92 to 100 % - Read days	ily - 14 -		-
	OECD 301D Ready Biodegradability - Closed Bottle Test	84 % - Readily - 28	days -		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability
2-methoxy-1-methylethyl	-		-		Readily
acetate n-butyl acetate Solvent naphtha (petroleum), light arom.	-		-		Readily Readily
2-hydroxyethyl methacrylate	-		-		Readily

**Bioaccumulative potential** 

### Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential	
2-methoxy-1-methylethyl acetate	1.2	-	low	
xylene	3.12	8.1 to 25.9	low	
n-butyl acetate	2.3	-	low	
ethylbenzene	3.6	-	low	
isobutyl acetate	2.3	-	low	
Solvent naphtha (petroleum), light arom.	-	10 to 2500	high	
1,2,4-trimethylbenzene	3.63	243	low	
methyl methacrylate	1.38	-	low	
2-hydroxyethyl methacrylate	0.42	-	low	

#### <u>Mobility in soil</u>

Soil/water	partition
coefficient	(Koc)

Other adverse effects

: Not available.

: 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 nonrecyclable 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 sewers.

UN number	Proper shipping name	Classes	PG*	Label
UN1263	PAINT	3	111	PLANADLE 1
UN1263	PAINT	3	111	
UN1263	PAINT	3		
UN1263	PAINT	3	111	
UN1263	Paint	3		
	UN1263 UN1263 UN1263 UN1263	UN1263PAINTUN1263PAINTUN1263PAINTUN1263PAINTUN1263PAINT	UN1263PAINT3UN1263PAINT3UN1263PAINT3UN1263PAINT3UN1263PAINT3	UN1263         PAINT         3         III           UN1263         PAINT         3         III

### Section 14. Transport information

Page: 13/14

# Section 14. Transport information

IMDG Class	UN1263	PAINT	3		
Additional inform	mation				
New Zealand C	lass	<ul> <li><u>Hazchem code</u> 3Y</li> <li><u>Special provisions</u> 163, 223</li> </ul>			
ADG Class		<ul> <li><u>Hazchem code</u> •3Y</li> <li><u>Special provisions</u> 163, 223</li> </ul>			
UN Class		Special provisions 163, 223			
ADR/RID Class		<ul> <li>Hazard identification number</li> <li>Limited quantity 5 L</li> <li>Special provisions 163, 6400</li> <li>Tunnel code (D/E)</li> </ul>	_		
IATA Class		<b>Quantity limitation</b> 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. <b>Special provisions</b> A3, A72			
IMDG Class		Emergency schedules F-E, <u>Special provisions</u> 163, 223,			
PG* : Packing gro	oup				

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	<ul> <li>3.1 - FLAMMABLE LIQUIDS - Category C</li> <li>6.1 - ACUTE TOXICITY (oral) - Category E</li> <li>6.3 - SKIN IRRITATION - Category A</li> <li>6.4 - EYE IRRITATION - Category A (Irritant)</li> <li>6.5 - SENSITIZATION - Category B (Skin)</li> <li>6.7 - CARCINOGENICITY - Category B</li> <li>6.8 - REPRODUCTIVE AND DEVELOPMENTAL TOXICITY - Category B</li> <li>6.9 - SPECIFIC TARGET ORGAN TOXICITY (SINGLE OR REPEATED EXPOSURE) - Category B</li> <li>9.1 - AQUATIC ECOTOXICITY - Category C</li> </ul>
International regulations	
Chemical Weapon Conve	ntion List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
Stockholm Convention or	n Persistent Organic Pollutants
Not listed.	
Rotterdam Convention or	Prior Informed Consent (PIC)
Not listed.	
UNECE Aarhus Protocol o	on POPs and Heavy Metals
Not listed.	
Inventory list	
Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
Version : 1	Date of issue/Date of revision : 12/18/2020

### Section 15. Regulatory information

China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (ENCS): All components are listed or exempted. Japan inventory (ISHL): Not determined.
Malaysia	: 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

<u>History</u>	
Date of printing	: 12/18/2020
Date of issue/Date of revision	: 12/18/2020
Date of previous issue	: 12/18/2020
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 UN = United Nations
References	• Not available

References

: Not available.

Indicates information that has changed from previously issued version.

#### Notice to reader

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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.