SAFETY DATA SHEET

valspar[.]

TB543 Polyurethane Enamel 3.5 VOC Low Gloss

Section 1. Identification

Product name	: TB543 Polyurethane Enamel 3.5 VOC Low Gloss
Product type	: Liquid.
Relevant identified uses of t	he substance or mixture and uses advised against
<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)	CALL: +(64)-98010034 (Hours of operation - 24 hours)
e-mail address of person	: autoinfo@valspar.com

Section 2. Hazards identification

responsible for this SDS

HSNO Classification	: FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2 SKIN SENSITISATION - Category 1 CARCINOGENICITY - Category 1 REPRODUCTIVE TOXICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2
	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3.6%

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	: Danger
Hazard statements	 Highly flammable liquid and vapour. May cause an allergic skin reaction. Causes serious eye irritation. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.

Precautionary statements

Section 2. Hazards identification

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. 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 exposed or concerned: 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	
	de net i Nene kneum

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	7.5505	123-86-4
heptan-2-one	6.6109	110-43-0
butanone	6.1492	78-93-3
4-chloro-α,α,α-trifluorotoluene	3.6469	98-56-6
2-butoxyethyl acetate	3.4363	112-07-2
Solvent naphtha (petroleum), light arom.	1.5589	64742-95-6
2-methoxy-1-methylethyl acetate	1.4917	108-65-6
Poly(oxy-1,2-ethanediyl), α-	0.30965	104810-48-2
[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-		
crystalline silica respirable	0.30749	14808-60-7
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.24683	41556-26-7
xylene	0.23699	1330-20-7
Hydroxyphenyl-benzotriazole derivate II	0.23533	104810-47-1

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

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: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Section 4. First aid measures

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. If necessary, call a poison center or physician. 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. If necessary, call a poison center or physician. 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. If necessary, call a poison center or physician.
Most important symptoms/ef	fec	cts, acute and delayed
Potential acute health effect	<u>ts</u>	
Inhalation	1	May cause damage to organs following a single exposure if inhaled.
Ingestion	1	May cause damage to organs following a single exposure if swallowed.
Skin contact	:	May cause damage to organs following a single exposure in contact with skin. May cause an allergic skin reaction.
Eye contact	1	Causes serious eye irritation.
Over-exposure signs/sympt	ton	<u>15</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: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
Eyes	:	Adverse symptoms may include the following: pain or irritation watering redness
Indication of immediate med	ica	l attention and special treatment needed, if necessary
Specific treatments	:	Not available.
Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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	:	Highly 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. 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 sulfur oxides halogenated compounds carbonyl halides metal oxide/oxides
Hazchem code	:	3YE
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, protective equipment and emergency procedures	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, dra and sewers. Inform the relevant authorities if the product has caused environm pollution (sewers, waterways, soil or air). Water polluting material. May be harr to the environment if released in large quantities.	ental
Methods and material for co	nment and cleaning up	
Small spill	Stop leak if without risk. Move containers from spill area. Use spark-proof tools 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 appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.	an
Large spill	Stop leak if without risk. Move containers from spill area. Use spark-proof tools explosion-proof equipment. Approach the release from upwind. Prevent entry i sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous e and place in container for disposal according to local regulations (see Section 1 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.	nto non- earth 3).

Section 7. Handling and storage

Precautions for safe handling	 Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in
	which this product is used. 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

Section 7. Handling and storage

	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.
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

Ingredient name	Exposure limits
n-butyl acetate	NZ HSWA 2015 (New Zealand, 11/2018). 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.
heptan-2-one	NZ HSWA 2015 (New Zealand, 11/2018). WES-TWA: 233 mg/m ³ 8 hours. WES-TWA: 50 ppm 8 hours.
butanone	NZ HSWA 2015 (New Zealand, 11/2018). WES-STEL: 890 mg/m ³ 15 minutes. WES-STEL: 300 ppm 15 minutes. WES-TWA: 445 mg/m ³ 8 hours. WES-TWA: 150 ppm 8 hours.
2-butoxyethyl acetate	ACGIH TLV (United States, 3/2019). Notes: Refers to Appendix A Carcinogens. ACGIH 2003 Adoption TWA: 20 ppm 8 hours.
2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 8/2018). 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.
crystalline silica respirable	NZ HSWA 2015 (New Zealand, 12/2011). WES-TWA: 0.2 ppm 8 hours. Form: Respirable dust
xylene	NZ HSWA 2015 (New Zealand, 11/2018). 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.

: 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. Exposure controls/personal protection

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 measured	res
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.
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
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) >= 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 immediately.
Eye 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	: 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.

Section 9. Physical and chemical properties

Appearance		
Physical state	:	Liquid.
Colour	:	Not available.
Odour	:	Not available.
Odour threshold	:	Not available.
рН	:	Not applicable.
Melting point	:	Not available.
Boiling point	:	>100°C (>212°F)
Flash point	:	Closed cup: 10.5°C (50.9°F)
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	1	Not available.
Vapour pressure	:	Not available.
Vapour density	:	Not available.
Relative density	:	1.441
Solubility	:	Insoluble in the following materials: cold water and hot water.

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Section 9. Physical and chemical properties

Flame duration	1	Not applicable.
Flame height	;	Not applicable.
Enclosed space ignition - Deflagration density	:	Not applicable.
Enclosed space ignition - Time equivalent	:	Not applicable.
Ignition distance	÷	Not applicable.
Heat of combustion	4	Not available.
Type of aerosol	1	Not applicable.
Aerosol product		
Flow time (ISO 2431)	1	Not available.
Viscosity	1	Not available.
Decomposition temperature	:	Not available.
Auto-ignition temperature	:	Not available.
Partition coefficient: n- octanol/water		Not applicable.
Solubility in water	÷	Not available.

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, we braze, solder, drill, grind or expose containers to heat or sources of ignition.	∍ld,
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 : May cause damage to organs following a single exposure if inhaled. Ingestion : May cause damage to organs following a single exposure if swallowed. Skin contact : May cause damage to organs following a single exposure in contact with skin. May cause an allergic skin reaction. 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: 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
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	-
heptan-2-one	LC50 Inhalation Vapour	Rat	16.8 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1600 mg/kg	-
butanone	LC50 Inhalation Vapour	Rat	20 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>2193 mg/kg	-
4-chloro-α,α,α-trifluorotoluene	LD50 Oral	Rat	13 g/kg	-
2-butoxyethyl acetate	LD50 Dermal	Rabbit	1500 mg/kg	_
5	LD50 Oral	Rat	1880 mg/kg	-
Solvent naphtha (petroleum), light arom.	LC50 Inhalation Vapour	Rat	6193 mg/m ³	4 hours
5	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Rat	3592 mg/kg	-
2-methoxy-1-methylethyl acetate	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat - Female	>5000 mg/kg	-
Poly(oxy-1,2-ethanediyl), α- [3-[3-(2H-berozdriazed-2-yh-5-(1-dimethylethyl)-4-hydroxyhethylethyl)-4-hydroxyhethylethyl	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	LD50 Oral	Rat	>3230 mg/kg	-
xylene	LC50 Inhalation Gas.	Rat	6350 ppm	4 hours
,	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3523 to 4000	-
Hydroxyphenyl- benzotriazole derivate II	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
heptan-2-one	Skin - Mild irritant	Rabbit	-	24 hours 14 milligrams	-
butanone	Skin - Mild irritant	Rabbit	-	24 hours 14 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
2-butoxyethyl acetate	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
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	-

Section 11. Toxicological information

Sensitisation

Not available.

Potential chronic health effects

General	: 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.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	 Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Eye contact	: No known significant effects or critical hazards.
Carcinogenicity	: May cause 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.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: Suspected of damaging fertility.
Chronic toxicity	
Not available.	
Carcinogenicity	
Not available.	
<u>Mutagenicity</u>	

Not available.

Teratogenicity

Not available.

Reproductive toxicity

Not available.

Specific target organ toxicity

Name	Category	Route of exposure	Target organs
butanone 2-butoxyethyl acetate crystalline silica respirable xylene	Category 2 Category 2 Category 1 Category 2	inhalation inhalation inhalation oral, inhalation	- - -

Aspiration hazard

Name

Solvent naphtha (petroleum), light arom.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	16779.53 mg/kg
Dermal	43651.65 mg/kg
Inhalation (vapours)	98.68 mg/l
Inhalation (dusts and mists)	19.87 mg/l

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	72 hours
-	_	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
heptan-2-one	Acute LC50 131000 to 137000 µg/l	Fish - Pimephales promelas	96 hours
	Fresh water		
butanone	Acute EC50 1972 mg/l	Algae - Pseudokirchneriella	72 hours
		subcapitata	
	Acute EC50 308 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 2993 mg/l	Fish - Pimephales promelas	96 hours
2-butoxyethyl acetate	Acute EC50 1570 mg/l	Algae - Pseudokirchneriella	72 hours
5		subcapitata	
	Acute EC50 37 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 22 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 L nouro
2-methoxy-1-methylethyl	Acute EC50 >1000 mg/l	Algae - Pseudokirchnerella	96 hours
acetate		subcapitata	oo nouro
	Acute EC50 408 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 134 mg/l	Fish - Oncorhynchus mykiss	96 hours
Poly(oxy-1,2-ethanediyl), α-	Acute LC50 2.8 mg/l	Fish	96 hours
Glack Characterization of the state of the s	Acute LCOU 2.0 mg/	1 1511	30 110013
bis(1,2,2,6,6-pentamethyl-	Acute EC50 0.22 mg/l	Algae	72 hours
4-piperidyl) sebacate			
r pipenayi) eesadate	Acute LC50 0.9 mg/l	Fish	96 hours
	Acute NOEC 6.3 mg/l	Daphnia	21 days
xylene	Acute EC50 1 to 10 mg/l	Algae	72 hours
Ayiono	Acute EC50 1 to 10 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 1 to 10 mg/l	Fish	96 hours
Hydroxyphenyl-benzotriazole	Acute LC50 2.8 mg/l	Fish	96 hours
derivate II			30 110015

Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
n-butyl acetate	OECD 301D Ready Biodegradability - Closed Bottle Test	>80 % - 5 days	-	-
heptan-2-one Solvent naphtha (petroleum), light arom.	-	69 % - Readily - 28 days 78 % - Readily - 28 days	-	- Fresh water
2-methoxy-1-methylethyl acetate	OECD 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test	100 % - 28 days	-	-
	OECD 301F Ready Biodegradability - Manometric	83 % - 28 days	-	-

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Section 12. Ecological information

	Respirometry Test		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
n-butyl acetate heptan-2-one 2-butoxyethyl acetate Solvent naphtha (petroleum), light arom. 2-methoxy-1-methylethyl acetate	- - - -	- - 90.4%; 28 day(s) - -	Readily Readily - Readily Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-butyl acetate	2.3	-	low
heptan-2-one	2.26	-	low
butanone	0.3	-	low
2-butoxyethyl acetate	1.51	-	low
Solvent naphtha (petroleum), light arom.	-	10 to 2500	high
2-methoxy-1-methylethyl acetate	1.2	-	low
xylene	3.12	8.1 to 25.9	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 or grind used containers unless they have been cleaned
	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

Section 14. Transport information

Regulatory information	UN number	Proper shipping name		Classes	PG*	Label
New Zealand Class	UN1263	PAINT		3	II	PLANMALE
ADG Class	UN1263	PAINT		3	II	
Version : 1		·	Date of i	ssue/Date of	f revis	sion : 5/12/2022

Section 14. Transport information

UN Class	UN1263	PAINT	3	11	
ADR/RID Class	UN1263	PAINT	3	11	
IATA Class	UN1263	Paint	3	11	
IMDG Class	UN1263	PAINT	3	11	

Additional information	
New Zealand Class	: Hazchem code 3YE
ADG Class	: <u>Hazchem code</u> •3YE <u>Special provisions</u> 163
UN Class	: Special provisions 163
ADR/RID Class	 Hazard identification number 33 Limited quantity LQ6 Special provisions 163 640C 650 Tunnel code (D/E)
IATA Class	 <u>Quantity limitation</u> Passenger and Cargo Aircraft: 5 L. Packaging instructions: 305. Cargo Aircraft Only: 60 L. Packaging instructions: 307. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y305. <u>Special provisions</u> A3, A72
IMDG Class	: <u>Emergency schedules</u> F-E, _S-E_ <u>Special provisions</u> 163
PG* : Packing group	

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 2 EYE IRRITATION - Category 2 SKIN SENSITISATION - Category 1 CARCINOGENICITY - Category 1 REPRODUCTIVE TOXICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Section 15. Regulatory information

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	: Not determined.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (CSCL): At least one component is not listed. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined
New Zealand	: Not determined.
Philippines	: At least one component is not listed.
Republic of Korea	: All components are listed or exempted.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

Section 16. Other information

<u>History</u>	
Date of printing	: 5/12/2022
Date of issue/Date of revision	: 5/12/2022
Date of previous issue	: 4/14/2022
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 UN = United Nations
References	: Not available.

References

Indicates information that has changed from previously issued version.

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