SAFETY DATA SHEET



Serie 500 BeroBase MM 577/588 Base Additive

Section 1. Identification

Product name : Serie 500 BeroBase MM 577/588 Base Additive

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Use in coatings - Basecoat

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

6 Killarney Lane Hamilton 3204 NEW ZEALAND T: +64 7847 0944 E: info@dbnz.co.nz

Emergency telephone number (with hours of

operation)

: New Zealand Poisons Information Centre: 0800 764766 (24 hrs)

valspar

CALL: +(64)-98010034 (Hours of operation - 24 hours)

e-mail address of person responsible for this SDS

: msds@de-beer.com

Section 2. Hazards identification

HSNO Classification

3.1 - FLAMMABLE LIQUIDS - Category C

6.1 - ACUTE TOXICITY (oral) - Category D

6.1 - ACUTE TOXICITY (dermal) - Category E

6.1 - ACUTE TOXICITY (inhalation) - Category D

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 D

9.3 - TERRESTRIAL VERTEBRATE 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

: Flammable liquid and vapour.

Harmful if swallowed or if inhaled.

May be harmful in contact with skin.

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.

Harmful to terrestrial vertebrates.

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 nonsparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. 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 SWALLOWED: Rinse mouth. 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 INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. 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
n-butyl acetate	25 - 50	123-86-4
xylene	25 - 50	1330-20-7
ethylbenzene	5 - 12.5	100-41-4
butan-1-ol	1 - 5	71-36-3
2-methylpropan-1-ol	1 - 5	78-83-1
toluene	0 - 1	108-88-3
n-butyl methacrylate	0 - 1	97-88-1
methyl methacrylate	0 - 1	80-62-6

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

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

Section 4. First aid measures

Description of necessary first aid measures

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Inhalation: Harmful if inhaled.Ingestion: Harmful if swallowed.

Skin contact : May be harmful in contact with skin. Causes skin irritation. May cause an allergic

skin reaction.

Eye contact : Causes serious eye irritation.

Over-exposure signs/symptoms

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 medical attention and special treatment needed, if necessary

Specific treatments: Not available.

Notes to physician : No specific treatment. Treat symptomatically. Contact poison treatment specialist

immediately 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. 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, CO2, 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 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. Runoff to sewer may create fire or explosion hazard. This material is harmful to aquatic life. 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

Hazchem code

: 3Y

Special precautions for firefighters : 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 : 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 containment 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

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
n-butyl acetate	NZ HSWA 2015 (New Zealand, 11/2018). WES-TWA: 150 ppm 8 hours. WES-TWA: 713 mg/m³ 8 hours.
	WES-STEL: 950 mg/m³ 15 minutes. WES-STEL: 200 ppm 15 minutes.
xylene	NZ HSWA 2015 (New Zealand, 11/2018).
	Notes: See Notice of Intended Changes. WES-TWA: 217 mg/m³, 0 times per shift,
	8 hours. WES-TWA: 50 ppm, 0 times per shift, 8
	hours.
ethylbenzene	NZ HSWA 2015 (New Zealand, 11/2018). WES-STEL: 543 mg/m³ 15 minutes. WES-STEL: 125 ppm 15 minutes. WES-TWA: 434 mg/m³ 8 hours. WES-TWA: 100 ppm 8 hours.
butan-1-ol	NZ HSWA 2015 (New Zealand, 11/2018).
	Absorbed through skin.
	WES-Ceiling: 150 mg/m³
	WES-Ceiling: 50 ppm
2-methylpropan-1-ol	NZ HSWA 2015 (New Zealand, 11/2018).
	WES-TWA: 152 mg/m ³ 8 hours.
(all cases	WES-TWA: 50 ppm 8 hours.
toluene	NZ HSWA 2015 (New Zealand, 11/2018).
	Absorbed through skin. WES-TWA: 188 mg/m ³ 8 hours.
	WES-TWA: 166 flight 6 flours.
methyl methacrylate	NZ HSWA 2015 (New Zealand, 11/2018).

Section 8. Exposure controls/personal protection

Absorbed through skin. Skin sensitiser.

WES-STEL: 416 mg/m³ 15 minutes. WES-STEL: 100 ppm 15 minutes. WES-TWA: 208 mg/m³ 8 hours. WES-TWA: 50 ppm 8 hours.

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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 measures

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

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. 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

< 1 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

: 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.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Colour : Transparent
Odour : Not available.
Odour threshold : Not available.
pH : Not applicable.

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Section 9. Physical and chemical properties

Melting point : Not available.

Boiling point : >100°C (>212°F)

Flash point : Closed cup: 23 to 23.5°C (73.4 to 74.3°F)

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Lower: 1.2% Upper: 10.9%

Vapour pressure : Not available.

Vapour density : 3.7 [Air = 1]

Relative density : 0.919 to 0.935

Solubility : Insoluble in the following materials: cold water and hot water.

Solubility in water
Partition coefficient: n-

octanol/water

Not available.Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

Flow time (ISO 2431) : Not available.

Aerosol product

Type of aerosol : Not applicable.

Heat of combustion : Not available.

Ignition distance : Not applicable.

Enclosed space ignition - : Not applicable.

Time equivalent

Enclosed space ignition - Deflagration density

: 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. Do not allow vapour to accumulate in low or confined areas.

anow vapour to accumulate in low or commed 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 : Harmful if swallowed.

Skin contact: May be harmful in contact with skin. Causes skin irritation. May cause an allergic

skin reaction.

Eye contact : Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

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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
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	-
xylene	LC50 Inhalation Gas.	Rat	6350 ppm	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3523 to 4000	-
			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	
butan-1-ol	LC50 Inhalation Vapour	Rat	>17.76 mg/l	4 hours
	LD50 Dermal	Rabbit	3430 mg/kg	-
	LD50 Oral	Rat	2292 mg/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	8000 mg/l	4 hours
	LD50 Dermal	Rabbit	3392 mg/kg	-
	LD50 Oral	Rat	3350 mg/kg	-
toluene	LC50 Inhalation Vapour	Rat	28.1 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
n-butyl methacrylate	LC50 Inhalation Vapour	Rat	4910 ppm	4 hours
, , , , , , , , , , , , , , , , , , , ,	LD50 Oral	Rat	16 g/kg	-
methyl methacrylate	LC50 Inhalation Vapour	Rat - Male,	29.8 mg/l	4 hours
		Female	3	
	LD50 Dermal	Rabbit	5000 mg/kg	_
	LD50 Oral	Rat	7872 mg/kg	_

Irritation/Corrosion

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	-

Section 11. Toxicological information

				milligrams	
butan-1-ol	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				milligrams	
	Eyes - Severe irritant	Rabbit	-	0.005	-
	Olin Madagata initant	D-6-1-1		Mililiters	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
toluene	Eyes - Mild irritant	Rabbit		milligrams 0.5 minutes	-
tolderie	Lyes - Mild irritarit	Rabbit	_	100	-
				milligrams	
	Eyes - Mild irritant	Rabbit	-	870	-
				Micrograms	
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				milligrams	
	Skin - Mild irritant	Pig	-	24 hours 250	-
		5		microliters	
	Skin - Mild irritant	Rabbit	-	435	-
	Skin - Moderate irritant	Rabbit		milligrams 24 hours 20	
	Skiii - Moderate irritarit	Rabbit	[-	milligrams	-
	Skin - Moderate irritant	Rabbit	_	500	_
	Ciair Moderate initialit			milligrams	
n-butyl methacrylate	Skin - Mild irritant	Rabbit	_	500	-
				microliters	

Sensitisation

Not available.

Potential chronic health effects

General : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards.

: No known significant effects or critical hazards. Ingestion

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.

: Suspected of causing cancer. Risk of cancer depends on duration and level of Carcinogenicity

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.

: Suspected of damaging fertility.

Fertility effects Chronic toxicity

Not available.

Carcinogenicity

Not available.

Mutagenicity

Not available.

Teratogenicity

Not available.

Reproductive toxicity

Not available.

Version

Specific target organ toxicity

: 1

Date of issue/Date of revision:

12/18/2020

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Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
xylene	Category B	Oral Inhalation	Not determined Not determined
ethylbenzene	Category B	Inhalation	Not determined
toluene	Category B	Inhalation	Not determined
n-butyl methacrylate methyl methacrylate	Category B Category B	Inhalation Inhalation	Not determined Not determined

Aspiration hazard

Not available.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	1245.22 mg/kg
Dermal	3580.93 mg/kg
Inhalation (vapours)	150.77 mg/l
Inhalation (dusts and mists)	4.59 mg/l

Section 12. Ecological information

Ecotoxicity

: This material is harmful to aquatic life.

Aquatic and terrestrial toxicity

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
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
ethylbenzene	Acute LC50 >10 mg/l	Fish - Pimephales promelas	96 hours
butan-1-ol	Acute EC50 225 mg/l	Algae - Desmodesmus subspicatus	96 hours
	Acute EC50 1328 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 1376 mg/l	Fish - Pimephales promelas	96 hours
	Chronic NOEC 4.1 mg/l	Daphnia - Daphnia magna	21 days
2-methylpropan-1-ol	Acute EC50 1799 mg/l	Algae - Pseudokirchneriella	72 hours
2 month, propart : 0.	riodio 2000 ir oo iiigii	subcapitata	72 110410
	Acute EC50 1799 mg/l	Aquatic plants - Scenedesmus	72 hours
	1 10010 = 000 11 00 mg/.	subspicatus	1 - 1100.10
	Acute EC50 1100 mg/l	Daphnia - Daphnia pulex	48 hours
	Acute LC50 1430 mg/l	Fish - Pimephales promelas	96 hours
	Chronic NOEC 117 mg/l	Algae - Pseudokirchneriella	72 hours
		subcapitata	1 - 1100.10
	Chronic NOEC 20 mg/l	Daphnia - Daphnia magna	21 days
toluene	Acute EC50 12.5 mg/l	Algae	72 hours
10.00.10	Acute EC50 3.8 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 5.5 mg/l	Fish - Oncorhynchus kisutch	96 hours
n-butyl methacrylate	Chronic NOEC 2.6 mg/l Fresh water	Daphnia - Daphnia magna -	21 days
The batty internation yields	omonio redes 2.5 mg/r r room water	Neonate	_ auyo
methyl methacrylate	Acute EC50 >110 mg/l Fresh water	Algae - Pseudokirchnerella	72 hours
mounty moundary late	7 toute 2000 110 mg/11 room water	subcapitata	72 110410
	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
		subcapitata	1
	Chronic NOEC 37 mg/l Fresh water	Daphnia - Daphnia magna	21 days
Varsion 1		- spa Dapinia magna	12/19/2020

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Section 12. Ecological information

Chronic NOEC 9.4 mg/l Fresh water	Fish - Danio rerio	35 days

Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
n-butyl acetate	OECD 301D Ready Biodegradability - Closed Bottle Test	>80 % - 5 days	-	-
butan-1-ol	OECD 301E Ready Biodegradability - Modified OECD Screening Test	>70 % - 19 days	-	-
2-methylpropan-1-ol	-	70 to 80 % - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
n-butyl acetate	-	-	Readily
butan-1-ol	-	-	Readily
2-methylpropan-1-ol	-	-	Readily
toluene	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-butyl acetate	2.3	-	low
xylene	3.12	8.1 to 25.9	low
ethylbenzene	3.6	-	low
butan-1-ol	1	-	low
2-methylpropan-1-ol	1	-	low
toluene	2.73	90	low
n-butyl methacrylate	2.99	-	low
methyl methacrylate	1.38	-	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 thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
New Zealand Class	UN1263	PAINT RELATED MATERIAL	3	III	Pamant
ADG Class	UN1263	PAINT RELATED MATERIAL	3	III	8
UN Class	UN1263	PAINT RELATED MATERIAL	3	III	
ADR/RID Class	UN1263	PAINT RELATED MATERIAL	3	III	
IATA Class	UN1263	Paint related material	3	III	(3)
IMDG Class	UN1263	PAINT RELATED MATERIAL	3	III	

Additional information

New Zealand Class : <u>Hazchem code</u> 3Y

Special provisions 163, 223

ADG Class : <u>Hazchem code</u> •3Y

Special provisions 163, 223, 367

UN Class : <u>Special provisions</u> 163, 223, 367

ADR/RID Class : <u>Hazard identification number</u> 30

Limited quantity 5 L

Special provisions 163, 640E, 650, 367

Tunnel code (D/E)

IATA Class : 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, A192

IMDG Class : <u>Emergency schedules</u> F-E, _S-E_

Special provisions 163, 223, 367, 955

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

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Section 15. Regulatory information

HSNO Classification : 3.1 - FLAMMABLE LIQUIDS - Category C

6.1 - ACUTE TOXICITY (oral) - Category D 6.1 - ACUTE TOXICITY (dermal) - Category E

6.1 - ACUTE TOXICITY (inhalation) - Category D

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 D

9.3 - TERRESTRIAL VERTEBRATE ECOTOXICITY - Category C

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.

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.

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 : Not determined.

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 : 12/18/2020 Date of issue/Date of : 12/18/2020

revision

Date of previous issue : No previous validation

Version : 1

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Section 16. Other information

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 = Intermediate 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 applicable.

✓ Indicates information that has changed from previously issued version.

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