## **SAFETY DATA SHEET**



SP2098 MS Hardener Fast

Section 1. Identif	Section 1. Identification	
Product name	: SP2098 MS Hardener Fast	
Product type	: Liquid.	
Relevant identified uses of	the substance or mixture and uses advised against	
Identified uses		
Use in coatings - Hardener.		
<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 operation)	: New Zealand Poisons Information Centre: 0800 764766 (24 hrs) CALL: +(64)-98010034 (Hours of operation - 24 hours)	
e-mail address of person responsible for this SDS	: autoinfo@valspar.com	

## Section 2. Hazards identification

HSNO Classification	<ul> <li>FLAMMABLE LIQUIDS - Category 3         ACUTE TOXICITY (inhalation) - Category 4         SKIN IRRITATION - Category 2         EYE IRRITATION - Category 2         RESPIRATORY SENSITISATION - Category 1         SKIN SENSITISATION - Category 1         CARCINOGENICITY - Category 2         REPRODUCTIVE TOXICITY - Category 2         SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2         SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2     </li> </ul>
	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

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

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

#### **GHS label elements**

Signal word

: Danger

## Section 2. Hazards identification

Hazard statements	<ul> <li>Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	harmul to aquatic life with long lasting enects.
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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 exposed or concerned: Call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	: Store locked up.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
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	41.61	123-86-4
Aliphatic polyisocyanate	30.178	28182-81-2
xylene	10.307	1330-20-7
Aliphatic polyisocyanate 2	10.057	53880-05-0
Solvent naphtha (petroleum), light arom.	2.8838	64742-95-6
ethylbenzene	2.5124	100-41-4
ethyl acetate	2.2966	141-78-6

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 fin	st aid measures
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In 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. In the event of any complaints or symptoms, avoid further exposure.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. 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/	ffects, acute and delayed
Potential acute health effe	ets and a second se
Inhalation	: Harmful if inhaled. May cause damage to organs following a single exposure if inhaled. May cause allergy or asthma symptoms or breathing difficulties 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. Causes skin irritation. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.
Over-exposure signs/sym	<u>toms</u>
Inhalation	: Adverse symptoms may include the following: wheezing and breathing difficulties asthma reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
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

## Section 4. First aid measures

Indication of immediate medical attention and special treatment needed, if necessary		
Specific treatments	: Not available.	
Notes to physician	<ul> <li>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.</li> </ul>	
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 <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. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	<ul> <li>Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides</li> </ul>
Hazchem code	: 3Y
Special precautions for fire- fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

## Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	<ul> <li>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".</li> </ul>	
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. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.	
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent	

### Section 6. Accidental release measures

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). Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
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 <sup>3</sup> 8 hours. WES-STEL: 950 mg/m <sup>3</sup> 15 minutes. WES-STEL: 200 ppm 15 minutes.	
Aliphatic polyisocyanate	NZ HSWA 2015 (New Zealand, 11/2018).	
	Skin sensitiser.	
	WES-TWA: 0.02 mg/m³, (measured as -	
	NCO) 8 hours.	
	WES-STEL: 0.07 mg/m <sup>3</sup> , (measured as -	
	NCO) 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.	
Aliphatic polyisocyanate 2	NZ HSWA 2015 (New Zealand, 11/2018).	
	Skin sensitiser.	
	WES-TWA: 0.02 mg/m <sup>3</sup> , (measured as -	
	NCO) 8 hours.	
	WES-STEL: 0.07 mg/m <sup>3</sup> , (measured as -	
	NCO) 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.	
ersion : 1	Date of issue/Date of revision : 4/21/202	

## Section 8. Exposure controls/personal protection

Skin protection	<ul> <li>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.</li> </ul>	
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: If inhalation hazards exist, a full-face respirator may be required instead.	
Hand protection	aspects of use. Recommended: full-face mask supplied-air respirator. 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 butyl rubber polyvinyl alcohol (PVA) Viton® >= 0.7 mm 4 - 8 hours (breakthrough time): Recommended EN 374 neoprene >= 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.	
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: full-face mask supplied-air respirator	
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.	
Individual protection measu	<u>ires</u>	
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.	
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.	
ethyl acetate	WES-TWA: 434 mg/m <sup>3</sup> 8 hours. WES-TWA: 100 ppm 8 hours. <b>NZ HSWA 2015 (New Zealand, 11/2018).</b> WES-TWA: 200 ppm 8 hours. WES-TWA: 720 mg/m <sup>3</sup> 8 hours.	

## Section 9. Physical and chemical properties

Boiling point	: 77°C (170.6°F)
Melting point	: Not available.
рН	: Not applicable.
Odour threshold	: Not available.
Odour	: Not available.
Colour	: Colourless.
Physical state	: Liquid.
Appearance	

Version : 1

## Section 9. Physical and chemical properties

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Flash point	1	Closed cup: 23°C (73.4°F)
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Lower: 2.2%
(flammable) limits		Upper: 11.5%
Vapour pressure	1	Not available.
Vapour density	1	3.9 [Air = 1]
Relative density	1	0.976
Solubility	1	Insoluble in the following materials: cold water and hot water.
Solubility in water	:	Not available.
Partition coefficient: n- octanol/water	1	Not applicable.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Kinematic (40°C (104°F)): 4 mm²/s (4 cSt)
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 - Time equivalent	1	Not applicable.
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.
Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials
Hazardous decomposition products	<ul> <li>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</li> </ul>

## Section 11. Toxicological information

#### Information on likely routes of exposure Inhalation : Harmful if inhaled. May cause damage to organs following a single exposure if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Ingestion : May cause damage to organs following a single exposure if swallowed. : May cause damage to organs following a single exposure in contact with skin. **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: wheezing and breathing difficulties asthma reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

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

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
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	-
Aliphatic polyisocyanate	LC50 Inhalation Dusts and mists	Rat	2.18 mg/l	4 hours
	LD50 Dermal	Rabbit - Male, Female	>2000 mg/kg	-
	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	>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	-
Aliphatic polyisocyanate 2	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	>14000 mg/kg	-
Solvent naphtha (petroleum), light arom.	LC50 Inhalation Vapour	Rat	6193 mg/m³	4 hours
•	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Rat	3592 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	
ethyl acetate	LC50 Inhalation Vapour	Rat	1600 mg/l	4 hours
	LD50 Dermal	Rabbit	>20000 mg/kg	-
	LD50 Oral	Rat	5620 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Aliphatic polyisocyanate	Skin - Mild irritant	Rabbit	-	4 hours	-
	Eyes - Mild irritant	Rabbit	-	-	-
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	-
	Eves - Severe irritant	Rabbit	-	24 hours 5	-

## Section 11. Toxicological information

ethylbenzene	Eyes - Severe irritant	Rabbit	-	milligrams 500	-
	Skin - Mild irritant	Rabbit	-	milligrams 24 hours 15 milligrams	-

#### **Sensitisation**

••••••	Route of exposure	Species	Result
Aliphatic polyisocyanate	skin	Mouse	Sensitising
	skin	Guinea pig	Sensitising

#### Potential chronic health effects

General	<ul> <li>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.</li> </ul>
Inhalation	<ul> <li>Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li> </ul>
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	

# Product/ingredient nameResultSpeciesDoseExposureAliphatic polyisocyanateSub-chronic NOAEL<br/>Inhalation Dusts and mistsRat - Male,<br/>Female3.3 mg/m³90 days; 6 hours<br/>per day

#### **Carcinogenicity**

Not available.

#### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
Aliphatic polyisocyanate	OECD 471 Bacterial Reverse Mutation Test OECD 476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Bacteria Metabolic activation: +/- Experiment: In vitro Subject: Mammalian-Animal Metabolic activation: +/-	Negative Negative

#### Teratogenicity

Not available.

#### **Reproductive toxicity**

Not available.

#### Specific target organ toxicity

Name		Route of exposure	Target organs
xylene	Category 2	oral, inhalation	-
ethylbenzene	Category 2	inhalation	-
ethyl acetate	Category 2	inhalation	-

## Section 11. Toxicological information

#### Aspiration hazard

#### Name

Solvent naphtha (petroleum), light arom. ethylbenzene

#### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value	
Oral	4850.94 mg/kg	
Dermal	10672.07 mg/kg	
Inhalation (gases)	61606.94 ppm	
Inhalation (vapours)	437.83 mg/l	
Inhalation (dusts and mists)	2.4 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
n-butyl acetate	Acute EC50 397 mg/l	Algae - Selenastrum capricornutum	72 hours
	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
Aliphatic polyisocyanate	Acute EC50 >1000 mg/l	Algae - Scenedesmus subspicatus	72 hours
	Acute EC50 >100 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 >100 mg/l	Fish - Danio rerio	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
Aliphatic polyisocyanate 2	Acute EC50 >100 mg/l	Daphnia	48 hours
	Acute EC50 >100 mg/l	Fish	96 hours
Solvent naphtha (petroleum), light arom.	Acute EC50 2.9 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	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 subcapitata	72 hours
ethylbenzene	Acute LC50 >10 mg/l	Fish - Pimephales promelas	96 hours
ethyl acetate	Acute EC50 165 mg/l	Daphnia - Daphnia Magna	48 hours
-	Acute LC50 230 mg/l	Fish - Pimephales Promelas	96 hours
	Acute NOEC >100 mg/l	Algae - Desmodesmus subspicatus	72 hours
	Acute NOEC 2.4 mg/l	Daphnia - Daphnia magna	21 days

#### Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
n-butyl acetate	OECD 301D	>80 % - 5 days	-	-
-	Ready			
	Biodegradability -			
	Closed Bottle			
	Test			
Aliphatic polyisocyanate	EU 67/548/EEC	1 % - Not readily - 28 days	-	-
	ANNEX V, C.4.E.			
Aliphatic polyisocyanate 2	OECD 302C	5 % - 28 days	-	-
	Inherent	5		
	Biodegradability:			
	Modified MITI			

## Section 12. Ecological information

Solvent naphtha (petroleum), light arom.	Test (II) OECD 301F Ready Biodegradability - Manometric Respirometry Test -	1 % - 28 days 78 % - Readily - 28	days	-	- Fresh water
Product/ingredient name	Aquatic half-life	•	Photolysi	S	Biodegradability
n-butyl acetate Aliphatic polyisocyanate Aliphatic polyisocyanate 2 Solvent naphtha (petroleum), light arom.	- Fresh water 7.7 da - -	ays, 23°C	- - -		Readily Not readily Not readily Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
n-butyl acetate	2.3	-	low
Aliphatic polyisocyanate	5.54	367.7	low
xylene	3.12	8.1 to 25.9	low
Solvent naphtha (petroleum),	-	10 to 2500	high
light arom. ethylbenzene	3.6	-	low
ethyl acetate	0.68	30	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		PLANMAGE
ADG Class	UN1263	PAINT RELATED MATERIAL	3	111	

## Section 14. Transport information

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UN Class	UN1263	PAINT RELATED MATERIAL	3		
ADR/RID Class	UN1263	PAINT RELATED MATERIAL	3	111	
IATA Class	UN1263	Paint related material	3		
IMDG Class	UN1263	PAINT RELATED MATERIAL	3	111	

Additional information	
New Zealand Class	: Hazchem code 3Y
ADG Class	: <u>Hazchem code</u> •3Y <u>Special provisions</u> 163, 223
UN Class	: Special provisions 163, 223
ADR/RID Class	: <u>Hazard identification number</u> 30 <u>Limited quantity</u> 5 L <u>Special provisions</u> 163 640E 650 <u>Tunnel code</u> (D/E)
IATA Class	<ul> <li><u>Quantity limitation</u> 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.</li> <li><u>Special provisions</u> A3, A72</li> </ul>
IMDG Class	: <u>Emergency schedules</u> F-E, _S-E_ <u>Special provisions</u> 163, 223, 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
HSNO Classification	<ul> <li>FLAMMABLE LIQUIDS - Category 3         <ul> <li>ACUTE TOXICITY (inhalation) - Category 4</li> <li>SKIN IRRITATION - Category 2</li> <li>EYE IRRITATION - Category 2</li> <li>RESPIRATORY SENSITISATION - Category 1</li> <li>SKIN SENSITISATION - Category 1</li> <li>CARCINOGENICITY - Category 2</li> <li>REPRODUCTIVE TOXICITY - Category 2</li> <li>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2</li> <li>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2</li> <li>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3</li> </ul> </li> </ul>
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 (CSCL): 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	: 4/21/2022
Date of issue/Date of revision	: 4/21/2022
Date of previous issue	: 12/18/2020
Version	: 1
Key to abbreviations	<ul> <li>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</li> </ul>
References	: Not available.

✓ Indicates information that has changed from previously issued version.

Notice to reader

## Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.