# **SAFETY DATA SHEET**



SP2760 HS Hardener Fast

Section 1. Identification	
Product name	: SP2760 HS 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	: New Zealand Poisons Information Centre: 0800 764766 (24 hrs)
operation)	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 E
	6.1 - ACUTE TOXICITY (inhalation) - Category D
	6.3 - SKIN IRRITATION - Category B
	6.4 - EYE IRRITATION - Category A (Irritant)
	6.5 - SENSITIZATION - Category A (Respiratory)
	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

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

: Danger

### Section 2. Hazards identification

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Hazard statements	<ul> <li>Flammable liquid and vapour. May be harmful if swallowed. Causes mild 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 long lasting harmful effects to aquatic life.</li> </ul>
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye/face protection. Wear appropriate respiratory protection. Keep away from ignition sources such as heat/sparks/open flame No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. 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 ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash with plenty of soap and water. Wash contaminated clothing before reuse. 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 breathing is difficult, remove victim 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. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
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

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 Aliphatic polyisocyanate Aliphatic polyisocyanate 2 isobutyl acetate xylene ethylbenzene	50 - 100 25 - 50 5 - 12.5 1 - 5 1 - 5 0 - 1	123-86-4 28182-81-2 53880-05-0 110-19-0 1330-20-7 100-41-4

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 f	rst aid measures
Inhalation	: Get medical attention immediately. 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. 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. 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 effe	ects
Inhalation	: Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Ingestion	: May be harmful if swallowed.
Skin contact	: Causes mild skin irritation. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.
<u>Over-exposure signs/sym</u>	<u>ptoms</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

Indication of immediate medical attention and special treatment needed, if necessary

## Section 4. First aid measures

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.
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See toxicological information (Section 11)
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### Section 5. Firefighting measures

Extinguishing media		
Suitable	lse dry chemical, CO <sub>2</sub> , water spray (fog) or foam.	
Not suitable	o not use water jet.	
Specific hazards arising from the chemical	lammable liquid and vapour. In a fire or if heated, a pressure increase nd the container may burst, with the risk of a subsequent explosion. ewer may create fire or explosion hazard. This material may cause I armful effects to aquatic life. Fire water contaminated with this mate ontained and prevented from being discharged to any waterway, sew	Runoff to ong lasting rial must be
Hazardous thermal decomposition products	ecomposition products may include the following materials: arbon dioxide arbon monoxide itrogen oxides	
Hazchem code	Y	
Special precautions for fire- fighters	romptly isolate the scene by removing all persons from the vicinity of here is a fire. No action shall be taken involving any personal risk or uitable training. Move containers from fire area if this can be done w lse water spray to keep fire-exposed containers cool.	without
Special protective equipment for fire-fighters	ire-fighters should wear appropriate protective equipment and self-correathing apparatus (SCBA) with a full face-piece operated in positive node.	

# 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 cont	ainment 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

### Section 6. Accidental release measures

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 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 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/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/m <sup>3</sup> , (measured as - NCO) 8 hours. WES-STEL: 0.07 mg/m <sup>3</sup> , (measured as - NCO) 15 minutes.	
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.	
isobutyl acetate	NZ HSWA 2015 (New Zealand, 11/2018). WES-TWA: 713 mg/m <sup>3</sup> 8 hours. WES-TWA: 150 ppm 8 hours.	
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.	

## Section 8. Exposure controls/personal protection

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ethylbenzene	WES-TWA: 50 ppm, 0 times per shift, 8 hours. <b>NZ HSWA 2015 (New Zealand, 11/2018).</b> 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.	
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 measured	ires	
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: full-face mask supplied-air respirator	
Hand protection	<ul> <li>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. &gt; 8 hours (breakthrough time): Recommended EN 374 butyl rubber polyvinyl alcohol (PVA) Viton® &gt;= 0.7 mm</li> <li>4 - 8 hours (breakthrough time): Conditionally suitable materials for protective gloves; EN 374: Nitrile rubber - NBR (&gt;= 0.35 mm). Only suitable as splash protection. Only suitable for brief exposure. In the event of contamination, change protective gloves immediately.</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.	
Skin protection	<ul> <li>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.</li> </ul>	

## Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Clear.
Odour	: Not available.
Odour threshold	: Not available.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: >100°C (>212°F)
Flash point	: Closed cup: 25°C (77°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapour pressure	: Not available.
Vapour density	: Not available.
Relative density	: 0.99
Solubility	: Insoluble in the following materials: cold water and hot water.
Solubility in water	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: 350°C (662°F)
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 - Time equivalent	: Not applicable.
Enclosed space ignition - Deflagration density	: Not applicable.
Flame height	: Not applicable.
Flame duration	: Not applicable.

## Section 10. Stability and reactivity

: The product is stable.
: Under normal conditions of storage and use, hazardous reactions will not occur.
: 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.
<ul> <li>Reactive or incompatible with the following materials: oxidising materials</li> </ul>
: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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## Section 11. Toxicological information

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Information on likely	routes of exposure
Inhalation	<ul> <li>Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties i inhaled.</li> </ul>
Ingestion	: May be harmful if swallowed.
Skin contact	: Causes mild skin irritation. 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: 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,	>2000 mg/kg	-
		Female		
	LD50 Dermal	Rat - Male,	>2000 mg/kg	-
		Female		
	LD50 Oral	Rat	>5000 mg/kg	-
Aliphatic polyisocyanate 2	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	>14000 mg/kg	-
isobutyl acetate	LD50 Dermal	Rabbit	>17400 mg/kg	-
	LD50 Oral	Rat	13400 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	

Irritation/Corrosion

## Section 11. Toxicological information

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Product/ingredient name	Result	Species	Score	Exposure	Observation
Aliphatic polyisocyanate	Skin - Mild irritant	Rabbit	-	4 hours	-
	Eyes - Mild irritant	Rabbit	-	-	-
isobutyl acetate	Eyes - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 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	-
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams	-

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
Aliphatic polyisocyanate	skin	Mouse	Sensitising
	skin	Guinea pig	Sensitising

#### Potential chronic health effects

General	: No known significant effects or critical hazards.				
Inhalation	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.				
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	: 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.				
Developmental effects	: No known significant effects or critical hazards.				
Fertility effects	: Suspected of damaging fertility.				
Chronic toxicity					

Product/ingredient name	Result	Species	Dose	Exposure
Aliphatic polyisocyanate	Sub-chronic NOAEL Inhalation Dusts and mists	Rat - Male, Female	•	90 days; 6 hours per day

#### **Carcinogenicity**

Not available.

#### **Mutagenicity**

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## Section 11. Toxicological information

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 B		Not determined Not determined
ethylbenzene	Category B	Inhalation	Not determined

#### Aspiration hazard

Not available.

**Ecotoxicity** 

#### Numerical measures of toxicity

Acute toxicity estimates			
Route	ATE value		
Oral Dermal Inhalation (dusts and mists)	3980.89 mg/kg 55000 mg/kg 2.04 mg/l		

## Section 12. Ecological information

: This material may cause long lasting harmful effects to aquatic life.

#### 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
Aliphatic polyisocyanate 2	Acute EC50 >100 mg/l	Daphnia	48 hours
	Acute EC50 >100 mg/l	Fish	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
ethylbenzene	Acute LC50 >10 mg/l	Fish - Pimephales promelas	96 hours

Persistence/degradability

## Section 12. Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
n-butyl acetate	OECD 301D Ready Biodegradability - Closed Bottle Test	>80 % - 5 days	-	-
Aliphatic polyisocyanate	EU 67/548/EEC ANNEX V, C.4.E.	1 % - Not readily - 2	28 days -	-
Aliphatic polyisocyanate 2	OECD 302C Inherent Biodegradability: Modified MITI Test (II) OECD 301F Ready Biodegradability - Manometric Respirometry Test	5 % - 28 days 1 % - 28 days	-	-
Product/ingredient name	Aquatic half-life		Photolysis	Biodegradability
n-butyl acetate Aliphatic polyisocyanate Aliphatic polyisocyanate 2	- Fresh water 7.7 d -	esh water 7.7 days, 23°C - -		Readily Not readily Not readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
n-butyl acetate	2.3	-	low
Aliphatic polyisocyanate	5.54	367.7	low
isobutyl acetate	2.3	-	low
xylene	3.12	8.1 to 25.9	low
ethylbenzene	3.6	-	low

Mobility in soil

Soil/water partition coefficient (Koc) Other adverse effects : Not available.

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
New Zealand Class	UN1263	PAINT RELATED MATERIAL	3	111	PLANAGE
ADG Class	UN1263	PAINT RELATED MATERIAL	3		
UN Class	UN1263	PAINT RELATED MATERIAL	3	111	
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	: <u>Hazchem code</u> 3Y Special provisions 163, 223
ADG Class	<ul> <li><u>Hazchem code</u> •3Y</li> <li><u>Special provisions</u> 163, 223</li> </ul>
UN Class	: <u>Special provisions</u> 163, 223
ADR/RID Class	<ul> <li>Hazard identification number 30</li> <li>Limited quantity 5 L</li> <li>Special provisions 163, 640E, 650</li> <li>Tunnel code (D/E)</li> </ul>
IATA Class	<ul> <li>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.</li> <li>Special provisions 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

## Section 15. Regulatory information

HSNO Classification	: 3.1 - FLAMMABLE LIQUIDS - Category C
	6.1 - ACUTE TOXICITY (oral) - Category E
	6.1 - ACUTE TOXICITY (inhalation) - Category D
	6.3 - SKIN IRRITATION - Category B
	6.4 - EYE IRRITATION - Category A (Irritant)
	6.5 - SENSITIZATION - Category A (Respiratory)
	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

#### In

International regulations	
Chemical Weapon Conv	rention List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
Stockholm Convention	on Persistent Organic Pollutants
Not listed.	on rensistent organic ronutants
	on Prior Informed Consent (PIC)
Not listed.	
UNECE Aarhus Protoco	I 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	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: 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	: All components are listed or exempted.
United States	: Not determined.
Viet Nam	: All components are listed or exempted.

### Section 16. Other information

<u>History</u>	
Date of printing	: 12/18/2020
Date of issue/Date of revision	: 12/18/2020
Date of previous issue	: 8/26/2019
Version	: 1

### Section 16. Other information

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</li> </ul>
	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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