SAFETY DATA SHEET



8-140 HS Hardener Fast

Section 1. Identification

Product name : 8-140 HS Hardener Fast

Product type : Liquid.

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

Identified uses

Use in coatings - Hardener.

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)

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 : 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

ASPIRATION HAZARD - Category 1

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation

toxicity: 26.9%

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

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Section 2. Hazards identification

Hazard statements

: Flammable liquid and vapour.

May be fatal if swallowed and enters airways.

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.

Precautionary statements

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 SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Storage

: Store locked up.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Symbol







Other hazards which do not : None known. result in classification

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

% (w/w)	CAS number
44.279	28182-81-2
25.201	108-65-6
9.0473	1330-20-7
7.8638	64742-95-6
4.0183	25551-13-7
2.9632	123-86-4
2.2503	100-41-4
1.6743	108-67-8
1.6743	95-63-6
	44.279 25.201 9.0473 7.8638 4.0183 2.9632 2.2503 1.6743

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.

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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 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

: Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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/effects, acute and delayed

Potential acute health effects

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 be fatal if swallowed and enters airways.

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/symptoms

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: nausea or vomiting

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

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Section 4. First aid measures

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

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable

: Use dry chemical, CO2, 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

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

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

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, 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.

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Section 6. Accidental release measures

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 noncombustible, 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 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 swallow. 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.

including any incompatibilities

Conditions for safe storage, : 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 wellventilated 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	
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/m³, (measured as - NCO) 15 minutes.	
2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed through skin. STEL: 548 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 274 mg/m³ 8 hours. STEL: 100 ppm 15 minutes.	
xylene	NZ HSWA 2015 (New Zealand, 11/2018). Notes: See Notice of Intended Changes. WES-TWA: 217 mg/m³, 0 times per shift, 8 hours. WES-TWA: 50 ppm, 0 times per shift, 8 hours.	
trimethylbenzene	NZ HSWA 2015 (New Zealand, 11/2018).	

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Section 8. Exposure controls/personal protection

WES-TWA: 25 ppm 8 hours.
WES-TWA: 123 mg/m³ 8 hours.

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.

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.

mesitylene NZ HSWA 2015 (New Zealand, 11/2018).

WES-TWA: 25 ppm 8 hours. WES-TWA: 123 mg/m³ 8 hours.

1,2,4-trimethylbenzene NZ HSWA 2015 (New Zealand, 11/2018).

WES-TWA: 25 ppm 8 hours. WES-TWA: 123 mg/m³ 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

: 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

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 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.

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.

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Section 8. Exposure controls/personal protection

Skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. : Colourless. Colour : Not available. **Odour** : Not available. **Odour threshold** pН : Not applicable. **Melting point** : Not available. : >100°C (>212°F) **Boiling point**

Flash point : Closed cup: 36°C (96.8°F)

: Not available. **Evaporation rate** Flammability (solid, gas) : Not available. : Lower: 1.2% Lower and upper explosive Upper: 10.8% (flammable) limits Vapour pressure : Not available. Vapour density : 4.4 [Air = 1] Relative density : 1.008

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

Solubility in water : Not available. Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition temperature : Not available. : Not available. **Decomposition temperature**

: Kinematic (40°C (104°F)): 4 mm²/s (4 cSt) **Viscosity**

Flow time (ISO 2431) : Not available.

Aerosol product

: Not applicable. Type of aerosol **Heat of combustion** : Not available. : Not applicable. Ignition distance **Enclosed space ignition -**: Not applicable.

Time equivalent

: Not applicable.

Enclosed space ignition -Deflagration density

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.

: Reactive or incompatible with the following materials: Incompatible materials

oxidising materials

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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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 be

fatal if swallowed and enters airways.

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.

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:

nausea or vomiting 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
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	-
2-methoxy-1-methylethyl acetate	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat - Female	>5000 mg/kg	-
xylene	LC50 Inhalation Gas.	Rat	6350 ppm	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3523 to 4000	-
			mg/kg	
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	-
trimethylbenzene	LD50 Oral	Rat	8970 mg/kg	-
n-butyl acetate	LC50 Inhalation Vapour	Rat	>21.1 mg/l	4 hours
	LD50 Dermal	Rabbit	>14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	6350 ppm	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3523 to 4000	-
			mg/kg	
1,2,4-trimethylbenzene	LD50 Oral	Rat	>5000 mg/kg	-

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Section 11. Toxicological information

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	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 milligrams	-
trimethylbenzene	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams	-
mesitylene	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-

Sensitisation

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

Potential chronic health effects

General : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very

low levels.

Inhalation : 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	Category	Route of exposure	Target organs
xylene	Category 2	oral, inhalation	-
ethylbenzene	Category 2	inhalation	-
1,2,4-trimethylbenzene	Category 2	inhalation	-

Aspiration hazard

Name

Solvent naphtha (petroleum), light arom.

trimethylbenzene ethylbenzene

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	5526.5 mg/kg
Dermal	12158.29 mg/kg
Inhalation (gases)	51323.37 ppm
Inhalation (vapours)	101.27 mg/l
Inhalation (dusts and mists)	3.28 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
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
2-methoxy-1-methylethyl acetate	Acute EC50 >1000 mg/l	Algae - Pseudokirchnerella subcapitata	96 hours
	Acute EC50 408 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 134 mg/l	Fish - Oncorhynchus mykiss	96 hours
xylene	Acute EC50 1 to 10 mg/l	Algae	72 hours
	Acute EC50 1 to 10 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 1 to 10 mg/l	Fish	96 hours
Solvent naphtha (petroleum), light arom.		Algae - Pseudokirchneriella subcapitata	72 hours
3	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
trimethylbenzene	Acute LC50 5600 μg/l Marine water	Crustaceans - Palaemonetes	48 hours

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Section 12. Ecological information

		pugio	
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
ethylbenzene	Acute LC50 >10 mg/l	Fish - Pimephales promelas	96 hours
1,2,4-trimethylbenzene	Acute EC50 1 to 10 mg/l	Fish	96 hours

Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Aliphatic polyisocyanate	EU 67/548/EEC ANNEX V, C.4.E.	1 % - Not readily - 28 days	-	-
2-methoxy-1-methylethyl acetate	OECD 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test	100 % - 28 days	-	-
	OECD 301F Ready Biodegradability - Manometric Respirometry Test	83 % - 28 days	-	-
Solvent naphtha (petroleum), light arom.	-	78 % - Readily - 28 days	-	Fresh water
n-butyl acetate	OECD 301D Ready Biodegradability - Closed Bottle Test	>80 % - 5 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Aliphatic polyisocyanate 2-methoxy-1-methylethyl acetate	Fresh water 7.7 days, 23°C -		Not readily Readily
Solvent naphtha (petroleum), light arom.	-	-	Readily
n-butyl acetate	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Aliphatic polyisocyanate	5.54	367.7	low
2-methoxy-1-methylethyl	1.2	-	low
acetate			
xylene	3.12	8.1 to 25.9	low
Solvent naphtha (petroleum),	-	10 to 2500	high
light arom.			_
trimethylbenzene	3.4 to 3.8	-	low
n-butyl acetate	2.3	-	low
ethylbenzene	3.6	-	low
mesitylene	3.42	161	low
1,2,4-trimethylbenzene	3.63	243	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

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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.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
New Zealand Class	UN1263	PAINT RELATED MATERIAL	3	III	FLAMMABLE
ADG Class	UN1263	PAINT RELATED MATERIAL	3	III	
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	
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

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Section 14. Transport information

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 ColourantsHSNO Classification : 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

ASPIRATION HAZARD - Category 1

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

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.

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Section 16. Other information

History

Date of printing : 6/4/2022 Date of issue/Date of : 6/4/2022

revision

Date of previous issue : 4/12/2022

Version : 1

Key to abbreviations : ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = 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 available.

Indicates information that has changed from previously issued version.

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