SAFETY DATA SHEET

MOBIHEL 2K HARDENER 700 PLUS

Version	Revision Date:	SDS Number:	Date of last issue: 16.11.2023
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SECTION 1: IDENTIFICATION

Product name : MOBIHEL 2K HARDENER 700 PLUS

Product code : 40216601

Details of the supplier of the safety data sheet

Company : Helios Coatings Australia Pty Ltd
50 Clapham Road
SEFTON NSW 2162
Australia

Telephone : 61 2 9645 3188
E-mail address Responsible/issuing person : 61 2 9645 3188
info@helioscoatings.com.au

Emergency telephone number

112 (mobile) Ambulance 000, Poisons Information Centre: 131 126

Access code: 13586 +61 2803 63166

Access code: 13586 +61 1 800 686 951

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Acute toxicity (Inhalation) : Category 4

Skin corrosion/irritation : Category 2

Serious eye damage/eye irritation : Category 1

Skin sensitisation : Category 1

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

Specific target organ toxicity - repeated exposure : Category 2

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.
H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements :

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe mist or vapours.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P314 Get medical advice/ attention if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Concentration (% w/w)
reaction mixture of ethylbenzene, m-xylene and p-xylene	Not Assigned	>= 30 -< 60
Hexamethylene diisocyanate, oligomers	28182-81-2	>= 30 -< 60
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8	>= 3 -< 10
2-methoxy-1-methylethyl acetate	108-65-6	< 10
p-toluenesulphonyl isocyanate	4083-64-1	< 1
hexamethylene diisocyanate	822-06-0	< 10

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.

In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed : None known.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical

Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire-fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	No hazardous combustion products are known
Specific extinguishing methods	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.
Hazchem Code	:	•3Y

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.
Advice on safe handling	:	Avoid formation of aerosol. Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

Conditions for safe storage : No smoking.
Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
reaction mixture of ethylbenzene, m-xylene and p-xylene	1330-20-7	STEL	150 ppm 655 mg/m3	AU OEL
		TWA	80 ppm 350 mg/m3	AU OEL
		TWA	20 ppm	ACGIH
Hexamethylene-di-isocyanate, polymer	28182-81-2	STEL	0.07 mg/m3 (NCO)	AU OEL
	Further information: Sensitiser			
		TWA	0.02 mg/m3 (NCO)	AU OEL
	Further information: Sensitiser			
2-methoxy-1-methylethyl acetate	108-65-6	STEL	100 ppm 548 mg/m3	AU OEL
	Further information: Skin absorption			
		TWA	50 ppm 274 mg/m3	AU OEL
	Further information: Skin absorption			
4-isocyanatosulphonyltoluene	4083-64-1	STEL	0.07 mg/m3	AU OEL

			(NCO)	
	Further information: Sensitiser			
		TWA	0.02 mg/m3 (NCO)	AU OEL
	Further information: Sensitiser			
hexamethylene-di-isocyanate	822-06-0	STEL	0.07 mg/m3 (NCO)	AU OEL
	Further information: Sensitiser			
		TWA	0.02 mg/m3 (NCO)	AU OEL
	Further information: Sensitiser			
		TWA	0.005 ppm	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
reaction mixture of ethylbenzene, m-xylene and p-xylene	1330-20-7	Methylhippuric acids	Urine	End of shift (As soon as possible after exposure ceases)	0.3 g/g creatinine	ACGIH BEI
hexamethylene-di-isocyanate	822-06-0	1,6-Hexamethylene diamine	Urine	End of shift	15 µg/g creatinine	ACGIH BEI

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Organic vapour type

Hand protection

Remarks : Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection : Equipment should conform to EN 166
Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour	:	colourless
Odour	:	solvent-like
Odour Threshold	:	No data available
pH	:	Not applicable substance/mixture is non-polar/aprotic
Melting point/freezing point	:	ca. -70 - -28 °C (calculation method (principal components, lowest value))
Boiling point/boiling range	:	138 - 141.4 °C(calculation method (principal components, lowest value))
Flash point	:	25 °C (calculation method (principal components, lowest value))
Flammability (solid, gas)	:	Static-accumulating flammable liquid., Combustible Solids
Upper explosion limit / Upper flammability limit	:	7 %(V)
Lower explosion limit / Lower flammability limit	:	1.1 %(V)
Vapour pressure	:	8.21 hPa (20 °C)
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0.963 g/cm3
Solubility(ies)		
Water solubility	:	immiscible partly soluble
Solubility in other solvents	:	Description: miscible with most organic solvents
Partition coefficient: n-octanol/water	:	log Pow: 2.77 - 3.15
Auto-ignition temperature	:	315 °C
Decomposition temperature	:	No decomposition if stored and applied as directed. Hazardous decomposition products formed under fire conditions.

Viscosity
Viscosity, kinematic : > 20.5 mm2/s (40 °C)

Explosive properties : Not applicable

Oxidizing properties : Sustains combustion

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.
Chemical stability : No decomposition if stored and applied as directed.
Possibility of hazardous reactions : No decomposition if stored and applied as directed.
Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.
Incompatible materials : Incompatible with strong acids and bases.
Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute inhalation toxicity : Acute toxicity estimate: 12.43 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Acute oral toxicity : LD50 Oral (Rat): >= 8,700 mg/kg

Acute inhalation toxicity : LC50 (Rat): 27.14 mg/l
Test atmosphere: vapour

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after single contact with skin.

Hexamethylene-di-isocyanate, polymer:

Acute oral toxicity : LD50 (Rat, female): > 2,500 mg/kg
Method: OECD Test Guideline 423
Assessment: The substance or mixture has no acute oral toxicity
Remarks: The test was conducted according to guideline

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after

short term inhalation.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: The test was conducted according to guideline

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Acute oral toxicity : LD50 (Rat): 8.03625 g/kg
Method: OECD Test Guideline 401
Remarks: The test was conducted equivalent or similar to guideline

Acute inhalation toxicity : LC50 (Rat): > 5.3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Remarks: The test was conducted equivalent or similar to guideline

Acute dermal toxicity : LD50 (Rabbit, male): 4.25 g/kg
Method: OECD Test Guideline 402
Remarks: The test was conducted equivalent or similar to guideline

2-methoxy-1-methylethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): > > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l
Test atmosphere: vapour

LC0 (Rat): 2000 ppm
Exposure time: 3 h

Acute dermal toxicity : LD50 (Rabbit): > > 2,000 mg/kg

4-isocyanatosulphonyltoluene:

Acute oral toxicity : LD50 (Rat): 2,330 mg/kg
Method: OECD Test Guideline 401
Remarks: The test was conducted equivalent or similar to guideline

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Remarks: The test was conducted according to guideline

hexamethylene-di-isocyanate:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : Assessment: The component/mixture is highly toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rat): > 7,000 mg/kg
Method: OECD Test Guideline 402
Remarks: The test was conducted according to guideline

Skin corrosion/irritation

Product:

Remarks : Extremely corrosive and destructive to tissue.

Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Result : irritating

Hexamethylene-di-isocyanate, polymer:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
Remarks : The test was conducted according to guideline

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
Remarks : The test was conducted equivalent or similar to guideline

2-methoxy-1-methylethyl acetate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
Remarks : The test was conducted equivalent or similar to guideline

4-isocyanatosulphonyltoluene:

Result : irritating

hexamethylene-di-isocyanate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Corrosive after 4 hours or less of exposure
Remarks : The test was conducted according to guideline

Serious eye damage/eye irritation

Product:

Remarks : May cause irreversible eye damage.

Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Result : Eye irritation

Hexamethylene-di-isocyanate, polymer:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405
Remarks : The test was conducted according to guideline

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Result : Corrosive

2-methoxy-1-methylethyl acetate:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405
Remarks : The test was conducted equivalent or similar to guideline

4-isocyanatosulphonyltoluene:

Result : Eye irritation

hexamethylene-di-isocyanate:

Species : Rabbit
Result : Irreversible effects on the eye
Method : OECD Test Guideline 405
Remarks : The test was conducted according to guideline

Respiratory or skin sensitisation

Product:

Remarks : Causes sensitisation.

Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

Test Type : Local lymph node assay (LLNA)
Exposure routes : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
Result : negative
Remarks : The test was conducted equivalent or similar to guideline

Assessment : Not classified due to data which are conclusive although insufficient for classification.

Hexamethylene-di-isocyanate, polymer:

Result	:	Probability or evidence of skin sensitisation in humans

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Assessment	:	Not classified due to data which are conclusive although insufficient for classification.
Test Type	:	Buehler Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative
Remarks	:	The test was conducted according to guideline
Assessment	:	Not classified due to data which are conclusive although insufficient for classification.

2-methoxy-1-methylethyl acetate:

Assessment	:	Not classified due to data which are conclusive although insufficient for classification.
Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative
Remarks	:	The test was conducted according to guideline
Assessment	:	Not classified due to data which are conclusive although insufficient for classification.

4-isocyanatosulphonyltoluene:

Result	:	Probability of respiratory sensitisation in humans based on animal testing

hexamethylene-di-isocyanate:

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	positive
Remarks	:	The test was conducted equivalent or similar to guideline
Exposure routes	:	Inhalation
Species	:	Mouse
Result	:	positive
Assessment	:	Probability or evidence of skin sensitisation in humans
Assessment	:	May cause sensitisation by inhalation.

Chronic toxicity

Germ cell mutagenicity

Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Method: Regulation (EC) No. 440/2008, Annex, B.10
Result: negative
Remarks: The test was conducted equivalent or similar to guideline

Test Type: In vitro mammalian cell gene mutation test
Method: Regulation (EC) No. 440/2008, Annex, B.17
Result: negative
Remarks: The test was conducted equivalent or similar to guideline

Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: equivocal
Remarks: The test was conducted equivalent or similar to guideline

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)
Species: Mouse
Application Route: Subcutaneous
Method: OECD Test Guideline 478
Result: negative
Remarks: The test was conducted equivalent or similar to guideline

Germ cell mutagenicity - Assessment : Not classified due to data which are conclusive although insufficient for classification.

Hexamethylene-di-isocyanate, polymer:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative
Remarks: The test was conducted according to guideline

Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative
Remarks: The test was conducted according to guideline

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative
Remarks: The test was conducted according to guideline

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay)
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 474
Result: negative
Remarks: The test was conducted equivalent or similar to guideline

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: positive
Remarks: The test was conducted equivalent or similar to guideline

Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: positive
Remarks: The test was conducted equivalent or similar to guideline

Genotoxicity in vivo : Test Type: comet assay
Species: Rat
Application Route: oral (gavage)
Method: OECD Test Guideline 489
Result: positive
Remarks: The test was conducted according to guideline

Germ cell mutagenicity - Assessment : Not classified due to data which are conclusive although insufficient for classification.

2-methoxy-1-methylethyl acetate:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative
Remarks: The test was conducted equivalent or similar to guideline

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 473
Result: negative
Remarks: The test was conducted equivalent or similar to guideline

Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative
Remarks: The test was conducted equivalent or similar to guideline

Germ cell mutagenicity - Assessment : Not classified due to data which are conclusive although insufficient for classification.

4-isocyanatosulphonyltoluene:

Genotoxicity in vitro	:	Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: positive Remarks: The test was conducted according to guideline Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: The test was conducted according to guideline
Genotoxicity in vivo	:	Test Type: In vivo micronucleus test Species: Mouse Application Route: oral (gavage) Method: OECD Test Guideline 474 Result: negative Remarks: The test was conducted according to guideline
Germ cell mutagenicity - Assessment	:	Not classified due to data which are conclusive although insufficient for classification.

hexamethylene-di-isocyanate:

Genotoxicity in vitro	:	Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vivo	:	Test Type: In vivo micronucleus test Species: Mouse Application Route: inhalation (vapour) Method: OECD Test Guideline 474 Result: negative Remarks: The test was conducted equivalent or similar to guideline
Germ cell mutagenicity - Assessment	:	Not classified due to data which are conclusive although insufficient for classification.

Carcinogenicity

Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Species	:	Mouse
Application Route	:	inhalation (vapour)
Exposure time	:	103 Weeks
Method	:	OECD Test Guideline 451
Result	:	positive
Remarks	:	The test was conducted equivalent or similar to guideline
Species	:	Mouse
Application Route	:	oral (gavage)

Exposure time	:	1030 d
Method	:	Regulation (EC) No. 440/2008, Annex, B.32
Result	:	negative
Remarks	:	The test was conducted equivalent or similar to guideline
Carcinogenicity - Assessment	:	Not classified due to data which are conclusive although insufficient for classification.

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Species	:	Mouse, male
Application Route	:	Dermal
Result	:	negative
Remarks	:	No test guideline followed
Carcinogenicity - Assessment	:	Not classified due to data which are conclusive although insufficient for classification.

2-methoxy-1-methylethyl acetate:

Species	:	Rat
Application Route	:	inhalation (vapour)
Exposure time	:	2 yr
Method	:	OECD Test Guideline 453
Result	:	negative
Remarks	:	The test was conducted according to guideline
Carcinogenicity - Assessment	:	Not classified due to data which are conclusive although insufficient for classification.

4-isocyanatosulphonyltoluene:

Carcinogenicity - Assessment	:	Not classified due to data which are conclusive although insufficient for classification.

hexamethylene-di-isocyanate:

Species	:	Rat
Application Route	:	inhalation (vapour)
Exposure time	:	2 yr
Method	:	OECD Test Guideline 453
Result	:	negative
Remarks	:	The test was conducted according to guideline
Carcinogenicity - Assessment	:	Not classified due to data which are conclusive although insufficient for classification.

Reproductive toxicity

Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: inhalation (vapour)

Method: OPPTS 870.3800
Result: negative
Remarks: The test was conducted equivalent or similar to guideline

Test Type: Screening test
Species: Rat
Application Route: oral (gavage)
Method: OECD Test Guideline 422
Result: negative
Remarks: The test was conducted according to guideline

Effects on foetal development : Test Type: Developmental Toxicity
Species: Rabbit
Application Route: Inhalation
Result: positive
Remarks: The test was conducted equivalent or similar to guideline

Test Type: Developmental Toxicity
Species: Rat
Application Route: oral (gavage)
Result: positive
Remarks: The test was conducted according to guideline

Reproductive toxicity - Assessment : Not classified due to data which are conclusive although insufficient for classification.

Not classified due to data which are conclusive although insufficient for classification.

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Effects on fertility : Test Type: One-generation reproduction toxicity study
Species: Rat
Application Route: oral (gavage)
Method: OECD Test Guideline 415
Result: negative
Remarks: The test was conducted according to guideline

Effects on foetal development : Test Type: Developmental Toxicity
Species: Rabbit
Application Route: oral (gavage)
Result: negative
Remarks: The test was conducted equivalent or similar to guideline

Reproductive toxicity - Assessment : Not classified due to data which are conclusive although insufficient for classification.

Not classified due to data which are conclusive although insufficient for classification.

2-methoxy-1-methylethyl acetate:

Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: inhalation (vapour) Method: OECD Test Guideline 416 Result: positive Remarks: The test was conducted according to guideline Test Type: Screening test Species: Rat Application Route: oral (gavage) Method: OECD Test Guideline 422 Result: negative Remarks: The test was conducted according to guideline
Effects on foetal development	:	Test Type: Developmental Toxicity Species: Rat Application Route: Inhalation Result: negative Remarks: The test was conducted equivalent or similar to guideline
Reproductive toxicity - Assessment	:	Not classified due to data which are conclusive although insufficient for classification. Not classified due to data which are conclusive although insufficient for classification.

4-isocyanatosulphonyltoluene:

Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: oral (feed) Method: OECD Test Guideline 416 Result: negative Remarks: The test was conducted according to guideline
Reproductive toxicity - Assessment	:	Not classified due to data which are conclusive although insufficient for classification. Not classified due to data which are conclusive although insufficient for classification.

hexamethylene-di-isocyanate:

Effects on fertility	:	Test Type: One-generation reproduction toxicity study Species: Rat Application Route: inhalation (vapour) Method: OECD Test Guideline 422 Result: negative Remarks: The test was conducted according to guideline
Effects on foetal development	:	Test Type: Developmental Toxicity Species: Rat Application Route: inhalation (vapour) Result: negative

Remarks: The test was conducted according to guideline

Reproductive toxicity - Assessment : Not classified due to data which are conclusive although insufficient for classification.

Not classified due to lack of data.

STOT - single exposure

Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Assessment : May cause respiratory irritation.

Hexamethylene-di-isocyanate, polymer:

Assessment : May cause respiratory irritation.

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

2-methoxy-1-methylethyl acetate:

Assessment : May cause drowsiness or dizziness.

4-isocyanatosulphonyltoluene:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Assessment : May cause damage to organs through prolonged or repeated exposure.

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

2-methoxy-1-methylethyl acetate:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

4-isocyanatosulphonyltoluene:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

hexamethylene-di-isocyanate:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

Aspiration toxicity

Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene:

May be fatal if swallowed and enters airways.

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Not classified due to data which are conclusive although insufficient for classification.

2-methoxy-1-methylethyl acetate:

Not classified due to data which are conclusive although insufficient for classification.

4-isocyanatosulphonyltoluene:

Not classified due to data which are conclusive although insufficient for classification.

hexamethylene-di-isocyanate:

Not classified due to data which are conclusive although insufficient for classification.

Further information

Product:

Remarks : Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Toxicity to fish	:	LC50 (Fish): >= 1 - 10 mg/l
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia (water flea)): >= 1 - 10 mg/l
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): 91.2 mg/l Exposure time: 72 h
Toxicity to fish (Chronic toxicity)	:	NOEC (Danio rerio (zebra fish)): 0.714 mg/l Exposure time: 35 d Method: OECD Test Guideline 210 Remarks: The test was conducted according to guideline
Toxicity to daphnia and other	:	EC10 (Daphnia magna (Water flea)): 1.91 mg/l

aquatic invertebrates (Chronic toxicity)		Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: The test was conducted according to guideline
Toxicity to microorganisms	:	EC50 (Bacteria): >= 1 - 100 mg/l

Ecotoxicology Assessment

Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.

Hexamethylene-di-isocyanate, polymer:

Toxicity to algae/aquatic plants	:	EL50 (Desmodesmus subspicatus (green algae)): > 1,000 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: The test was conducted equivalent or similar to guideline EL10 (Desmodesmus subspicatus (green algae)): 370 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: The test was conducted equivalent or similar to guideline

Ecotoxicology Assessment

Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Toxicity to fish	:	LC50 (Cyprinus carpio (Carp)): 55 mg/l Exposure time: 96 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 350 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 100 mg/l Exposure time: 21 d
Toxicity to microorganisms	:	EC50 (activated sludge): > 100 mg/l Exposure time: 3 h

2-methoxy-1-methylethyl acetate:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 130 mg/l Exposure time: 96 h NOEC : 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	LC50: 408 mg/l Exposure time: 48 h

Toxicity to algae/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (green algae)): >= 1,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 201 Remarks: The test was conducted according to guideline EC50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 201 Remarks: The test was conducted according to guideline
Toxicity to fish (Chronic toxicity)	:	EC10: 47.5 mg/l
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): >= 100 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: The test was conducted according to guideline
Toxicity to microorganisms	:	EC10 (activated sludge): > 1,000 mg/l Exposure time: 30 min Method: OECD Test Guideline 209 Remarks: The test was conducted equivalent or similar to guideline

4-isocyanatosulphonyltoluene:

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: The test was conducted according to guideline
Toxicity to algae/aquatic plants	:	EC10 (Pseudokirchneriella subcapitata (green algae)): 23 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: The test was conducted according to guideline EC50 (Pseudokirchneriella subcapitata (green algae)): 30 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: The test was conducted according to guideline

hexamethylene-di-isocyanate:

Toxicity to algae/aquatic plants	:	EC10 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: The test was conducted equivalent or similar to guideline EL50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: The test was conducted equivalent or similar to

guideline

Toxicity to microorganisms : EC10 (activated sludge): 299 mg/l
Exposure time: 3 h

EC50 (activated sludge): 842 mg/l
Exposure time: 3 h

Persistence and degradability

Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Biodegradability : Remarks: Readily biodegradable.

Photodegradation : Remarks: Decomposes rapidly in contact with light.

Hexamethylene-di-isocyanate, polymer:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 1 %
Exposure time: 28 d
Method: Directive 67/548/EEC Annex V, C.4.E.
Remarks: The test was conducted according to guideline

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 37 %
Exposure time: 28 d
Method: Regulation (EC) No. 440/2008, Annex, C.4-A
Remarks: The test was conducted according to guideline

2-methoxy-1-methylethyl acetate:

Biodegradability : Remarks: Readily biodegradable.

4-isocyanatosulphonyltoluene:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 45 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
Remarks: The test was conducted according to guideline

hexamethylene-di-isocyanate:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 42 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: The test was conducted equivalent or similar to guideline

Bioaccumulative potential

Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Bioaccumulation	:	Bioconcentration factor (BCF): 25.9 Remarks: Bioaccumulation is unlikely.
Partition coefficient: n-octanol/water	:	log Pow: 2.77 - 3.15

Hexamethylene-di-isocyanate, polymer:

Partition coefficient: n-octanol/water	:	log Pow: > 4 Remarks: Calculation method

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Partition coefficient: n-octanol/water	:	log Pow: 0.5 (20 °C) pH: 7

2-methoxy-1-methylethyl acetate:

Partition coefficient: n-octanol/water	:	log Pow: 1.2 (20 °C) pH: 6.8

4-isocyanatosulphonyltoluene:

Partition coefficient: n-octanol/water	:	log Pow: 0.6 Method: OECD Test Guideline 117 Remarks: The test was conducted according to guideline

hexamethylene-di-isocyanate:

Partition coefficient: n-octanol/water	:	log Pow: 3.2

Mobility in soil

Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Distribution among environmental compartments	:	Koc: 537, log Koc: 2.73 Remarks: Moderately mobile in soils The product evaporates from soil.
Stability in soil	:	Dissipation time: 23 d Percentage dissipation: 50 % (DT50)

Other adverse effects

Product:

Additional ecological information	:	No data available

Endocrine disrupting properties

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	:	UN 1263
Proper shipping name	:	PAINT
Class	:	3
Packing group	:	III
Labels	:	3
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	UN 1263
Proper shipping name	:	Paint
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1263
Proper shipping name	:	PAINT
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

ADG

UN number	:	UN 1263
Proper shipping name	:	PAINT
Class	:	3
Packing group	:	III
Labels	:	3

Hazchem Code	:	•3Y
Environmentally hazardous	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Therapeutic Goods (Poisons Standard) Instrument	:	Schedule 7
Prohibition/Licensing Requirements	:	There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.
National Code of Practice for Chemicals of Security Concern	:	Not listed

SECTION 16: ANY OTHER RELEVANT INFORMATION

Revision Date	:	19.10.2026
Date format	:	dd.mm.yyyy

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
AU OEL	:	Australia. Workplace Exposure Standards for Airborne Contaminants.
ACGIH / TWA	:	8-hour, time-weighted average
AU OEL / TWA	:	Exposure standard - time weighted average
AU OEL / STEL	:	Exposure standard - short term exposure limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Con-

centration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.