Safety Data Sheet MAPEFLOOR CPU TC /B

Safety Data Sheet dated: 20/04/2021 - version 1

Date of first edition: 20/04/2021



1. Identification

GHS Product identifier

Mixture identification:

Trade name: MAPEFLOOR CPU TC /B

Trade code: 9024112

Recommended use of the chemical and restrictions on use

Recommended use: Hardener for polyurethane resins

Uses advised against: Data not available

Supplier's details

Company: MAPEI AUSTRALIA Pty Ltd

180 Viking Drive Wacol QLD 4076 Australia

Responsable: sales@mapei.com.au

Emergency phone number

Australian Poisons Information Centre 24 Hour Service 13 11 26

Police or Fire Brigade 000

2. Hazard identification





Classification of the Hazardous chemical

Acute Tox. 4 Harmful if inhaled.

Skin Irrit. 2 Causes skin irritation.

Eye Irrit. 2A Causes serious eye irritation.

Resp. Sens. 1 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 May cause an allergic skin reaction.

Carc. 2 Suspected of causing cancer if inhaled, in contact with skin and if swallowed.

STOT SE 3 May cause respiratory irritation.

STOT RE 2 May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and

if swallowed.

Adverse physicochemical, human health and environmental effects:

No other hazards

GHS label elements, including precautionary statements

Pictograms and Signal Words



Danger

Hazard statements:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer if inhaled, in contact with skin and if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and

if swallowed.

Precautionary statements:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P285	In case of inadequate ventilation wear respiratory protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see supplementary instructions on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P362	Take off contaminated clothing and wash before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with applicable regulations.
Other hazards whi	ich do not result in a classification

Other hazards which do not result in a classification

Do not breathe mist/vapours/spray.

Other Hazards: No other hazards

3. Composition/information on ingredients

Substances

no data available

Mixtures

P260

Mixture identification: MAPEFLOOR CPU TC /B

Hazardous components within the meaning of the "Australian Work Health and Safety (WHS)" regulation and related classification:

Concentration (% w/w)	Name	Ident. Numb.	Classification	Registration Number
≥75 - <100 %	diphenylmethanediisocyanate isomers and homologues	CAS:9016-87-9 EC:618-498-9 Index:615-005- 00-9	Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT RE 2, H373; Carc. 2, H351	
≥10 - <20 %	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	CAS:101-68-8 EC:202-966-0 Index:615-005- 00-9	Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT RE 2, H373; Carc. 2, H351	01-2119457014-47
≥5 - <10 %	o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'- diisocyanate	CAS:5873-54-1 EC:227-534-9 Index:615-005- 00-9	Carc. 2, H351; STOT RE 2, H373; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; Acute Tox. 4, H332	01-2119480143-45-0000
≥0.49 - <1 %	2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate	CAS:2536-05-2 EC:219-799-4 Index:615-005- 00-9	Carc. 2, H351; STOT RE 2, H373; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; Acute Tox. 4, H332	01-2119927323-43-XXXX

4. First-aid measures

Description of necessary first-aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist

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immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

Symptoms caused by exposure

Eye irritation

Eye damages

Skin Irritation

Erythema

Medical attention and special treatment

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

5. Fire-fighting measures

Suitable extinguishing media

None in particular.

Water.

Carbon dioxide (CO2).

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: no data available

Explosive properties: no data available Oxidizing properties: no data available

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

7. Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Do not use on extensive surface areas in premises where there are occupants.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

 $Before\ making\ transfer\ operations,\ assure\ that\ there\ aren't\ any\ incompatible\ material\ residuals\ in\ the\ containers.$

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Keep away from food, drink and feed.

Incompatible materials:

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8. Exposure controls/personal protection Control parameters – exposure standards, biological monitoring

List of components with OEL value

List of components wit	h OEL va	alue							
Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
diphenylmethanediisocya nate isomers and homologues	ACGIH	None			0.05				
	AUS	AUSTRALIA		0.02		0.07			
	Nationa	I GERMANY		0.05					
	Nationa	I SLOVENIA		0.05		0.05			
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'- diisocyanate	Nationa	I NORWAY		0.050	0.005		0.010		Provoking allergic reactions or other hypersensitivity in the eyes or respiratory organs, or in contact with skin.
	Nationa	I SWEDEN	С	0.030	0.002	0.050	0.005		SWEDEN, Ceiling limit value
	ACGIH	None			0.005				Resp sens
	Nationa	I POLAND		0.030		0.090			
	Nationa	l AUSTRIA		0.050	0.005	0.100	0.010		
	ACGIH	None			0.005				respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI))
	AUS	AUSTRALIA		0.020		0.070			
	OSHA	None	С			0.200	0.020		
	Nationa	I SWEDEN		0.030	0.002				
	Nationa	I FRANCE		0.100	0.010	0.200	0.020		
	Nationa	I SPAIN		0.052	0.005				
	Nationa	I DENMARK		0.050	0.005				
	Nationa	I GERMANY		0.050					
	Nationa	I PORTUGAL			0.005				
	Nationa	I BELGIUM		0.052	0.005				
	Nationa	l CZECH REPUBLIC		0.050					
	Nationa	I HUNGARY		0.05		0.050			
	Nationa	I ESTONIA		0.050	0.005	0.100	0.010		
	Nationa	l CZECH REPUBLIC	С			0.100			
	Nationa	l SLOVAKIA		0.002					
	Nationa	l SLOVAKIA		0.030					
	Nationa	I SLOVENIA		0.050		0.050			
	Nationa	I ROMANIA				0.150			
	Nationa	l LITHUANIA		0.050	0.005				
	Nationa	l LITHUANIA	С			0.100	0.010		
	ACGIH				0.005				respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI))
	OSHA		С			0.2	0.02		
	Nationa	I NORWAY		0.05	0.005		0.01		
	Nationa	I SLOVENIA		0.05	0.005	0.05	0.005		
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o-(p- isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'- diisocyanate	National GERMA	NY	0.05			
	National SLOVEN	NIA	0.05		0.05	
2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'- diisocyanate	ACGIH None		0.051			
	National GERMA	NY	0.05			
	National SLOVEN	NIA	0.05		0.05	
Predicted No Effect Cor	ncentration (PNI	EC) values				
Component	CAS-No.	PNEC Limit	Exposure Ro	oute	Exposure Fi	requency Remark
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'- diisocyanate	101-68-8	1 mg/l	Fresh Water			
		0.1 mg/l	Marine water			
		1 mg/kg	Soil			
		1 mg/l	Microorganisi sewage treat			
		10.000000 mg/l	Intermittent	release		
o-(p- isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'- diisocyanate	5873-54-1	1 mg/l	Fresh Water			
		0.1 mg/l	Marine water			
		1 mg/kg	Soil			
		1 mg/l	Microorganisi sewage treat			
2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'- diisocyanate	2536-05-2	1 mg/l	Fresh Water			
		0.1 mg/kg	Marine water			
		1 mg/l	Soil			
		1 mg/l	Microorganism sewage treat			
Derived No Effect Leve	I. (DNEL)					
Component	CAS-No.	Industr Pr		Expos	sure Route	Exposure Frequency Remark
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'- diisocyanate	101-68-8	y ioi 50 mg/kg	nal	Humar	n Dermal	Short Term, systemic effects
		0.1 mg/m3		Humar	n Inhalation	Short Term, systemic effects
		0.1 mg/m3		Humar	n Inhalation	Short Term, local effects
		0.05 mg/m3		Humar	n Inhalation	Long Term, systemic effects
		0.05 mg/m3		Humar	n Inhalation	Long Term, local effects

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			25 mg/kg	Human Dermal	Short Term, systemic effects
			0.05 mg/m3	Human Inhalation	Short Term, systemic effects
			20 mg/kg	Human Oral	Short Term, systemic effects
			0.05 mg/m3	Human Inhalation	Short Term, local effects
			0.025 mg/m3	Human Inhalation	Long Term, systemic effects
			0.025 mg/m3	Human Inhalation	Long Term, local effects
		28.7 mg/cm2	17.2 mg/cm2	Human Dermal	Short Term, local effects
o-(p- isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-	5873-54-1	50 mg/kg	25 mg/kg	Human Dermal	Short Term, systemic effects
diisocyanate		0.4	0.05		
		0.1 mg/m3	0.05 mg/m3	Human Inhalation	Short Term, systemic effects
		28.7 mg/cm2	17.2 mg/cm2	Human Dermal	Short Term, local effects
		0.1 mg/m3	0.05 mg/m3	Human Inhalation	Short Term, local effects
		0.05 mg/m3	0.025 mg/m3	Human Inhalation	Long Term, systemic effects
		0.05 mg/m3	0.025 mg/m3	Human Inhalation	Long Term, local effects
			20 mg/kg	Human Oral	Short Term, systemic effects
2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'- diisocyanate	2536-05-2	50 mg/kg	25 mg/kg	Human Dermal	Short Term, systemic effects
		0.1 mg/m3	0.05 mg/m3	Human Inhalation	Short Term, systemic effects
		28.7 mg/cm2	17.2 mg/cm2	Human Dermal	Short Term, local effects
		0.1 mg/m3	0.05 mg/m3	Human Inhalation	Short Term, local effects
		0.05 mg/m3	0.025 mg/m3	Human Inhalation	Long Term, systemic effects
		0.05 mg/m3	0.025 mg/m3	Human Inhalation	Long Term, local effects
			20 ma/ka	Human Oral	Long Term, systemic effects

Appropriate engineering controls

no data available

Individual protection measures, such as personal protective equipment (PPE)

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; AS/NZS 2161.10:

Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min.

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mg/kg

effects

Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min. Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to AS/NZS 1715-1716 for information on selection and use of appropriate respiratory protection equipment.

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Use adequate protective respiratory equipment.

9. Physical and chemical properties

Physical state: Liquid Color: light brown Appearance: liquid Odour: Characteristic

Odour threshold: no data available

pH: no data available

Melting point / freezing point: no data available Initial boiling point and boiling range: no data available

Flash point: no data available
Evaporation rate: no data available
Flammability (Solid, Cas): no data av

Flammability (Solid, Gas): no data available

Upper/lower flammability or explosive limits: no data available

Vapour pressure: no data available Vapour density: no data available Relative density: no data available Solubility in water: partly soluble Solubility in oil: no data available

Partition coefficient (n-octanol/water): no data available

Auto-ignition temperature: no data available Decomposition temperature: no data available

Viscosity: no data available

Specific heat value: no data available

Saturated vapour concentration: no data available

Release of invisible flammable vapours and gases: no data available

Particle size: no data available

Particle size distribution: no data available Shape and aspect ratio: no data available

Crystallinity: no data available Dustiness: no data available

Specific surface area: no data available

Degree of aggregation or agglomeration, and dispersibility: no data available

Biodurability or biopersistence: no data available Surface coating or chemistry: no data available

VOC % (Volatile Organic Compound) : 1,6 (Rule 1113) g/l

10. Stability and reactivity

Reactivity

Stable under normal conditions

Chemical stability

no data available

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

SECTION 11: Toxicological information Information on toxicological effects

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Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

diphenylmethanediisocya a) acute toxicity nate isomers and

LD50 Oral Rat > 10000 mg/kg

homologues

LD50 Skin Rabbit > 9400 mg/kg

LC50 Inhalation Dust Rat = 0.31 mg/l 4h

LD50 Skin Rabbit > 9.4 q/kg

LC50 Inhalation Rat = 490 mg/m3 4h

LD50 Oral Rat = 49 g/kg

g) reproductive toxicity

NOAEL Inhalation Rat = 12 mg/m3

4,4'-methylenediphenyl

diisocyanate;

a) acute toxicity

LD50 Oral Rat > 2000 mg/kg

diphenylmethane-4,4'diisocyanate

LD50 Skin Rabbit > 9400 mg/kg

LC50 Inhalation Dust Rat = 0.368 mg/l 4h LC50 Inhalation Rat = 369 mg/m3 4h

LD50 Oral Rat = 31600 mg/kg

b) skin corrosion/irritation Skin Irritant Skin Rabbit Positive

d) respiratory or skin sensitisation

Skin Sensitization Skin Mouse Positive

Respiratory Sensitization Inhalation Positive

f) carcinogenicity Carcinogenicity Inhalation Rat = 6 mg/m3 2 y g) reproductive toxicity NOAEL Inhalation Rat = 12 mg/m3 20 d

o-(pisocyanatobenzyl)phenyl

isocyanate;

diphenylmethane-2,4'diisocyanate

a) acute toxicity

LD50 Skin Rabbit > 9400 mg/kg

LD50 Oral Rat > 2000 mg/kg

e) germ cell mutagenicity NOAEL Inhalation Rat = 12 mg/m3

2,2'-methylenediphenyl diisocyanate;

diphenylmethane-2,2'-

diisocyanate

a) acute toxicity

LD50 Oral Rat > 2000 mg/kg

LC50 Inhalation Dust Rat = 0.527 mg/l 4h

LD50 Skin Rabbit > 9400 mg/kg

e) germ cell mutagenicity NOAEL Inhalation Rat = 12 mg/m3

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure

Toxicological kinetics, metabolism and distribution information

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- i) STOT-repeated exposure
- j) aspiration hazard

12. Ecological information

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment. Eco-Toxicological Information:

List of components with eco-toxicological properties

List of components with eco-toxicological properties						
Component	Ident. Numb.	Ecotox Infos				
diphenylmethanediisocyanate isomers and homologues	CAS: 9016-87-9 - EINECS: 618-498-9 - INDEX: 615-005- 00-9	a) Aquatic acute toxicity: LC50 Fish > 1000 mg/L 96				
		a) Aquatic acute toxicity: EC50 Daphnia > 1000 mg/L 24				
		b) Aquatic chronic toxicity: NOEC Daphnia > 10 mg/L - 21 d				
		a) Aquatic acute toxicity: EC50 Algae > 1640 mg/L 72				
		c) Bacteria toxicity: EC50 > 100 mg/L 3				
		d) Terrestrial toxicity: NOEC > 1000 mg/kg - 14 d				
		e) Plant toxicity: NOEC > 1000 mg/kg - 14 d				
4,4'-methylenediphenyl diisocyanate; diphenylmethane- 4,4'-diisocyanate	CAS: 101-68-8 - EINECS: 202-966-0 - INDEX: 615-005- 00-9	a) Aquatic acute toxicity: LC50 Fish > 1000 mg/L 96				
		a) Aquatic acute toxicity: EC50 Daphnia > 1000 mg/L 24				
		b) Aquatic chronic toxicity: NOEC Daphnia > 10 mg/L - 21 d				
		a) Aquatic acute toxicity: EC50 Algae > 1640 mg/L 72				
		c) Bacteria toxicity: EC50 > 100 mg/L 3				
		d) Terrestrial toxicity: NOEC > 1000 mg/kg - 14 d				
		e) Plant toxicity: NOEC > 1000 mg/kg - 14 d				
o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane- 2,4'-diisocyanate	CAS: 5873-54-1 - EINECS: 227-534-9 - INDEX: 615-005- 00-9	a) Aquatic acute toxicity: LC50 Fish > 1000 mg/L 96				
		a) Aquatic acute toxicity: EC50 Daphnia > 1000 mg/L 24				
		b) Aquatic chronic toxicity: NOEC Daphnia > 10 mg/L - 21 d				
		a) Aquatic acute toxicity: EC50 Algae > 1640 mg/L 72				
		c) Bacteria toxicity: EC50 > 100 mg/L 3				
		d) Terrestrial toxicity: NOEC > 1000 mg/kg - 14 d				
		e) Plant toxicity: NOEC > 1000 mg/kg - 14 d				
2,2'-methylenediphenyl diisocyanate; diphenylmethane- 2,2'-diisocyanate	CAS: 2536-05-2 - EINECS: 219-799-4 - INDEX: 615-005- 00-9	a) Aquatic acute toxicity: LC50 Fish > 1000 mg/L 96				
		a) Aquatic acute toxicity: EC50 Daphnia > 1000 mg/L 24				
		b) Aquatic chronic toxicity: NOEC Daphnia > 10 mg/L - 21 d				
		a) Aquatic acute toxicity: EC50 Algae > 1640 mg/L 72				
		c) Bacteria toxicity: EC50 > 100 mg/L 3				
		e) Plant toxicity: NOEC > 1000 mg/kg - 14 d				
		d) Terrestrial toxicity: NOEC > 1000 mg/kg - 14 d				
Persistence and degradability						

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

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Other adverse effects

no data available

13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

Methods of disposal:

Disposal of this product, solutions, packaging 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.

Do not dispose of waste into sewers.

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

14. Transport information

Not classified as dangerous in the meaning of transport regulations.

UN number

no data available

UN proper shipping name

no data available

Transport hazard class(es)

no data available

Packing group, if applicable

no data available

Environmental hazards

no data available

Special precautions for user

no data available

Additional Information

no data available

HazChem Code/Emergency Action code

no data available

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

This Safety Data Sheet has been prepared according to the Australian Work Health and Safety (WHS) act and the Code of Practice on preparation of safety data sheets for Hazardous Chemicals.

AICS: all components are listed

December

16. Other information

C-4-

Code	Description
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H351	Suspected of causing cancer if inhaled, in contact with skin and if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.

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H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and

if swallowed.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low N.A.: Not Applicable N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

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PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

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