# MOBIHEL 2K hardener 1500



Version 1.1	Revision Date: 27.11.2023	SDS Number: MAT000416727 AU/EN	Date of last issue: 16.11.2023 Date of first issue: 16.11.2023
SECTION	1. PRODUCT A	ND COMPANY IDENTIFICA	TION
Prod	uct name	: MOBIHEL 2K	hardener 1500
Prod	uct code	: 416727	
Manu	ufacturer or sup	plier's details	
Deta	ils of the supplie	er of the safety data sheet	
Com	pany	: Helios Coatings 50 Clapham Ro SEFTON NSW Australia	ad
E-ma	bhone ail address Respo suing person	: 61 2 9645 3188 insi- : 61 2 9645 3188 info@helioscoat	
Eme	rgency telephon	e number	

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

### SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Flammable liquids	:	Category 3
Skin sensitisation	:	Category 1
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system, Central nervous system)
GHS label elements Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H226 Flammable liquid and vapour. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.
Precautionary statements	:	<b>Prevention:</b> P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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		P240 Ground a P241 Use explo ment. P242 Use non-s P243 Take actio P261 Avoid bre P271 Use only P272 Contamin the workplace. P280 Wear pro	tainer tightly closed. Ind bond container and receiving equipment. Ision-proof electrical/ ventilating/ lighting equip- sparking tools. On to prevent static discharges. Athing mist or vapours. Dutdoors or in a well-ventilated area. Ated work clothing should not be allowed out o ective gloves/ protective clothing/ eye protec- tion/ hearing protection.
		ly all contamina P304 + P340 + and keep comfo doctor if you fee P333 + P313 If vice/ attention. P362 + P364 Ta reuse. P370 + P378 In	P353 IF ON SKIN (or hair): Take off immediate ted clothing. Rinse skin with water. P312 IF INHALED: Remove person to fresh ai ortable for breathing. Call a POISON CENTER/ el unwell. skin irritation or rash occurs: Get medical ad- ake off contaminated clothing and wash it befor case of fire: Use dry sand, dry chemical or t foam to extinguish.
		tightly closed.	ore in a well-ventilated place. Keep container ore in a well-ventilated place. Keep cool.
		Disposal:	f contents/ container to an approved waste
<b>Other I</b> None k		do not result in classificat	ion

Substance / Mixture

: Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Hexamethylene diisocyanate, oligomers	28182-81-2	>= 30 -< 60
n-butyl acetate	123-86-4	>= 20 -< 30
isobutyl acetate	110-19-0	< 10
reaction mixture of ethylbenzene, m-xylene and p-xylene	1330-20-7	>= 1 -< 10
2-methoxy-1-methylethyl acetate	108-65-6	< 10
solvent naphtha (petroleum), light aromatic	64742-95-6	>= 1 -< 10

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SECTION 4. FIRST AID MEASURES						
General advice	:	Move out of dangerous area. 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	:	Flush eyes with water as a precaution. 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 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 prod- ucts	:	No hazardous combustion products are known
Specific extinguishing meth- ods	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must

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			For safety reason rately in closed of	a accordance with local regulations. Ins in case of fire, cans should be stored sepa- containments. By to cool fully closed containers.			
	al protective equi afighters	pment :	In the event of fir	e, wear self-contained breathing apparatus.			
Hazch	em Code	:	•3Y				
SECTION	SECTION 6. ACCIDENTAL RELEASE MEASURES						
	Personal precautions, protec- : tive equipment and emer- gency procedures						
tive ec	uipment and em		Remove all source Evacuate person Beware of vapou	otective equipment. ces of ignition. nel to safe areas. Irs accumulating to form explosive concentra- an accumulate in low areas.			
tive eo gency	uipment and em	ier-	Remove all sour Evacuate person Beware of vapou tions. Vapours ca Prevent product Prevent further le	ces of ignition. Inel to safe areas. Irs accumulating to form explosive concentra- an accumulate in low areas. from entering drains. eakage or spillage if safe to do so. Intaminates rivers and lakes or drains inform			

#### 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	<ul> <li>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. 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.</li> </ul>

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Hygiei	ne measures	:	When using do not eat When using do not smo Wash hands before bro				
Conditions for safe storage :		Keep container tightly of place. Containers which are of kept upright to prevent Observe label precaution	ons. working materials must comply with				
Furthe age st	er information on ability	stor- :	No decomposition if sto	pred and applied as directed.			

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis				
Hexamethylene-di-isocyanate, polymer	28182-81-2	TWA	0.02 mg/m3 (NCO)	AU OEL				
	Further information: Sensitiser							
		STEL	0.07 mg/m3 (NCO)	AU OEL				
	Further inform	ation: Sensitise	r					
n-butyl acetate	123-86-4	STEL	200 ppm 950 mg/m3	AU OEL				
		TWA	150 ppm 713 mg/m3	AU OEL				
		TWA	50 ppm	ACGIH				
		STEL	150 ppm	ACGIH				
isobutyl acetate	110-19-0	TWA	150 ppm 713 mg/m3	AU OEL				
		TWA	50 ppm	ACGIH				
		STEL	150 ppm	ACGIH				
reaction mixture of ethylben- zene, 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				
2-methoxy-1-methylethyl ace- tate	108-65-6	TWA	50 ppm 274 mg/m3	AU OEL				
	Further inform	ation: Skin abso						
		STEL	100 ppm 548 mg/m3	AU OEL				
	Further information: Skin absorption							



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light	Solvent naphtha (petroleu light arom.; Low boiling po naphtha -unspecified			42-95-6	TWA		900 mg/m3		AU OEL	
Biol	ogical occupational	l expos	ure li	imits						
Con	nponents	CAS-I	No.	Control paramete	rs	Biological specimen	Sam- pling time	Permissik concentra tion		Basis
ethy	tion mixture of Ibenzene, m-xylene p-xylene	1330-	20-7	Methylhip puric acid		Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g cr atinine	ē-	ACGIH BEI
Pers	sonal protective equ	uipmen	t							
Res	piratory protection	:	ver	ntilation is p	rov	rotection unle ided or expo e within reco	sure asses	sment der	nons	strates
F	Filter type	:	Org	ganic vapou	ur ty	/pe				
Han	d protection									
C	Gloves	:	b V	utyl-rubber 'iton® (> 0,	·(> 6 m	• 0,1 mm; < 6 0,6 mm; < 2 nm; < 240 mi 0,1 mm; < 2	40 min); DII n); DIN EN	N EN374   374		
F	Remarks	:	bre glo <sup>,</sup> tion	akthrough ves. Also ta is under wh	time ake hich	ne instructior e which are p into conside the product nd the contac	provided by ration the s is used, su	the suppli pecific loc	ier o al co	f the ondi-
Eye	protection	:	Eye	e wash bott	le v	d conform to with pure wat ety goggles				
Skir	and body protection	:	Cho		pro	ng tection accor dangerous si				

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	colourless



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Odou	ır	:	solvent-like	
Odou	ur Threshold	:	No data ava	ilable
pН		:	Not applicat	le
Melti	ng point/freezing poi	nt :	-98.8 °C (calculation	method (principal components, lowest value))
Boilir	ng point/boiling range	e :	117 °C (calculation	method (principal components, lowest value))
Flash	n point	:	34 °C	
Flam	mability (solid, gas)	:	Static-accur	nulating flammable liquid., Combustible Solids
	er explosion limit / Up nability limit	oper :	10.5 %(V)	
	er explosion limit / Lo nability limit	wer :	1.1 %(V)	
Vapo	our pressure	:	< 1,100 hPa	(50 °C)
Relat	tive vapour density	:	4.6 (Air = 1.0)	
Relat	tive density	:	No data ava	ilable
Dens	sity	:	0.984 g/cm3	3
	oility(ies) /ater solubility	:	immiscible,	partly soluble
S	olubility in other solv	ents :	Description:	miscible with most organic solvents
	tion coefficient: n- nol/water	:	log Pow: 2.7	7 - 3.15
Auto-	-ignition temperature	:	315 °C	
Deco	omposition temperate	ire :		osition if stored and applied as directed. decomposition products formed under fire condi-
Visco Vi	osity iscosity, kinematic	:	> 20.5 mm2	/s ( 40 °C)
Flow	time	:	12 s (20 °C) Cross sectio Method: DIN	n: 4 mm

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	xplosive properties	:	Not applicable	
C	Oxidizing properties	:	Sustains combustion	
SECT	ION 10. STABILITY	AND REAC	ΤΙVΙΤΥ	
R	Reactivity	:	No decomposition if sto	pred and applied as directed.
С	chemical stability	:	No decomposition if sto	pred and applied as directed.
	Possibility of hazardo ons	us reac- :	No decomposition if sto Vapours may form exp	bred and applied as directed. losive mixture with air.
С	Conditions to avoid	:	Heat, flames and spark	(S.
Ir	ncompatible material	s :	Incompatible with stron	ng acids and bases.
	lazardous decompos roducts	sition :		required. apours which can be ignited. oon dioxide and unburned hydrocar-

### SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Product:	
Acute inhalation toxicity :	Acute toxicity estimate: > 20 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:	
Hexamethylene-di-isocyanate	polymer:
Acute inhalation toxicity :	Assessment: The component/mixture is moderately toxic after short term inhalation.
n-butyl acetate:	
Acute oral toxicity :	LD50 Oral (Rat): >= 10,760 mg/kg
Acute dermal toxicity :	LD50 (Rabbit): >= 5,000 mg/kg
reaction mixture of ethylbenze	ene, m-xylene and p-xylene:
	LD50 Oral (Rat): >= 8,700 mg/kg



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Acute	inhalation toxicity	/ :	LC50 (Rat): 27.14 n Test atmosphere: va	
Acute	e dermal toxicity	:	Assessment: The co single contact withs	omponent/mixture is moderately toxic after kin.
2-me	thoxy-1-methyle	thyl acetat	e:	
	oral toxicity	•	LD50 Oral (Rat): > >	> 2,000 mg/kg
Acute	inhalation toxicity	/ :	LC50 (Rat): > 5 mg/ Test atmosphere: va	
			LC0 (Rat): 2000 ppr Exposure time: 3 h	n
Acute	e dermal toxicity	:	LD50 (Rabbit): > > 2	2,000 mg/kg
Solve	ent naphtha (petr	oleum), li	ght arom.; Low boil	ing point naphtha -unspecified:
Acute	oral toxicity	:	LD50 Oral (Rat): > 2	2,000 mg/kg
Acute	inhalation toxicity	/ :	LC50 (Rat): > 5 mg/ Test atmosphere: va	
Acute	e dermal toxicity	:	LD50 (Rabbit): > 2,0	000 mg/kg
Skin	corrosion/irritati	on		
Prod	uct:			
Rema	arks	:	May cause skin irrita	ation and/or dermatitis.
<u>Com</u>	oonents:			
react	ion mixture of et	hylbenzer	ne, m-xylene and p-	xylene:
Resu	lt	:	irritating	
Serio	us eye damage/e	eye irritati	on	
<u>Prod</u> Rema		:	Vapours may cause and the skin.	e irritation to the eyes, respiratory system
<u>Com</u>	oonents:			
react	ion mixture of et	hylbenzer	ne, m-xylene and p-	xylene:
Resu	lt	:	Eye irritation	



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Resp	piratory or skin s	sensitisation	
<u>Prod</u> Rem		: Causes sensitisa	tion.
<u>Com</u>	ponents:		
Hexa	amethylene-di-is	ocyanate, polymer:	
Resu	ılt	: Probability or evid	dence of skin sensitisation in humans
Chro	onic toxicity		
Gern	n cell mutagenic	ity	
<u>Com</u>	ponents:		
Gern	ent naphtha (per n cell mutagenicit essment	y - : Classified based	oiling point naphtha -unspecified: on benzene content < 0.1% (Regulation (EC) x VI, Part 3, Note P)
Carc	inogenicity		
<u>Com</u>	ponents:		
	inogenicity - Asse	ess- : Classified based	oiling point naphtha -unspecified: on benzene content < 0.1% (Regulation (EC) x VI, Part 3, Note P)
STO	T - single expos	ure	
Com	ponents:		
Hexa	amethylene-di-is	ocyanate, polymer:	
Asse	essment	: May cause respir	atory irritation.
n-bu	tyl acetate:		
Asse	essment	: May cause drows	siness or dizziness.
isob	utyl acetate:		
Asse	essment	: May cause drows	siness or dizziness.
react	tion mixture of e	thylbenzene, m-xylene and	p-xylene:
Asse	ssment	: May cause respir	atory irritation.
2-me	ethoxy-1-methyle	ethyl acetate:	
Asse	essment	: May cause drows	siness or dizziness.



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		leum), li	-	oiling point naphtha -unspecified:
Asses	ssment	:	May cause drows	siness or dizziness.
Asses	ssment	:	May cause respir	atory irritation.
STO	F - repeated expos	sure		
Com	ponents:			
react	ion mixture of eth	ylbenze	ne, m-xylene and	p-xylene:
Asse	ssment	:	May cause dama exposure.	ge to organs through prolonged or repeated
Aspii	ration toxicity			
Com	ponents:			
	ion mixture of eth be fatal if swallowed	•		p-xylene:
	ent naphtha (petro pe fatal if swallowed	•	-	oiling point naphtha -unspecified:
Furth	er information			
Furth <u>Prod</u>				
	uct:	:	tiredness, nausea	ubstantially above the TLV value may cause
Prod Rema	uct:	: . INFORI	tiredness, nausea Concentrations s narcotic effects. Solvents may de	a and vomiting. ubstantially above the TLV value may cause
Produ Rema	<u>uct:</u> arks	: . INFORI	tiredness, nausea Concentrations s narcotic effects. Solvents may de	a and vomiting. ubstantially above the TLV value may cause
Produ Rema ECTION Ecoto	uct: arks 12. ECOLOGICAL	: . INFORI	tiredness, nausea Concentrations s narcotic effects. Solvents may de	a and vomiting. ubstantially above the TLV value may cause
Produ Rema ECTION Ecoto <u>Com</u>	uct: arks 12. ECOLOGICAL oxicity	: . INFORI	tiredness, nausea Concentrations s narcotic effects. Solvents may de	a and vomiting. ubstantially above the TLV value may cause
Prod Rema ECTION Ecoto <u>Com</u> n-but	uct: arks 12. ECOLOGICAL oxicity ponents: tyl acetate: ity to algae/aquatic		tiredness, nausea Concentrations s narcotic effects. Solvents may de	a and vomiting. ubstantially above the TLV value may cause grease the skin.
Produ Rema ECTION Ecoto <u>Com</u> n-but Toxic	uct: arks 12. ECOLOGICAL oxicity ponents: tyl acetate: ity to algae/aquatic		tiredness, nausea Concentrations s narcotic effects. Solvents may dea MATION	a and vomiting. ubstantially above the TLV value may cause grease the skin. esmus subspicatus (green algae)): > 200 mg/l smus subspicatus (green algae)): >= 647.7



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	reactio	n mixture of eth	vlben	zer	e, m-xylene and p-xyler	ле <b>.</b>
	Toxicity		ryiben	:	LC50 (Fish): >= 1 - 10 m	
		to daphnia and invertebrates	other	:	LC50 (Daphnia (water fle	ea)): >= 1 - 10 mg/l
	Toxicity	to microorganis	ms	:	EC50 (Bacteria): >= 1 - 1	100 mg/l
	2-meth	oxy-1-methylet	hvl ace	etat	e:	
	Toxicity		,			/kiss (rainbow trout)): 130 mg/l
					NOEC : 100 mg/l Exposure time: 96 h	
		to daphnia and invertebrates	other	:	LC50: 408 mg/l Exposure time: 48 h	
	Toxicity icity)	to fish (Chronic	tox-	:	EC10: 47.5 mg/l	
	<b>Solven</b> Toxicity		oleum)	), liq :	ght arom.; Low boiling p LC50 (Fish): > 1 - 10 mg	point naphtha -unspecified: //
		to daphnia and invertebrates	other	:	LC50 (Daphnia (water fle	ea)): > 1 - 10 mg/l
	Toxicity	to microorganis	ms	:	EC50 (Bacteria): > 1 - 10	) mg/l
	Ecotox	icology Assess	ment			
		aquatic toxicity		:	Toxic to aquatic life with	long lasting effects.
	Persist	ence and degra	dabili	ty		
	Compo	nents:				
	n-butyl	acetate:				
	Biodegr	adability		:	Result: Biodegradable Biodegradation: 83 % Exposure time: 28 d Method: OECD Test Gui	deline 301D
	Stability	in water		:	Degradation half life: 78 Remarks: Hydrolyses slo	
	Photode	egradation		:	Remarks: Decomposes	rapidly in contact with light.
	reactio	n mixture of eth	nylben	zer	e, m-xylene and p-xyler	ne:
		adability	-	:	Remarks: Readily biodec	



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Photoc	legradation	:	Remarks: Dee	composes rapidly in contact with light.
2-meth	noxy-1-methyle	thyl aceta	e:	
	radability	:		adily biodegradable.
Bioaco	cumulative pote	ential		
<u>Comp</u>	onents:			
-	<b>I acetate:</b> umulation	:		ion factor (BCF): 15 accumulation is unlikely.
Partitic octano	n coefficient: n- I/water	:	log Pow: 1.81	
	<b>yl acetate:</b> on coefficient: n- I/water	:	log Pow: 1.72	
	on mixture of en umulation	thylbenzer :	Bioconcentrat	<b>nd p-xylene:</b> ion factor (BCF): 25.9 accumulation is unlikely.
Partitic octano	n coefficient: n- l/water	:	log Pow: 2.77	- 3.15
2-moth	oxy-1-methyle	thyl acota		
	n coefficient: n-	-	log Pow: 1.2 ( pH: 6.8	20 °C)
Mobili	ty in soil			
Comp	onents:			
reactio	on mixture of e	hylbenzer	ne, m-xylene a	nd p-xylene:
	ution among env compartments	viron- :		Koc: 2.73 derately mobile in soils vaporates from soil.
Stabilit	y in soil	:	Dissipation tir Percentage d	ne: 23 d ssipation: 50 % (DT50)
Other	adverse effects	5		
<u>Produc</u> Additio mation	nal ecological ir	ifor- :	No data availa	able
			13 / 1	6

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### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemi- cal 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

<b>UNRTDG</b> UN number Proper shipping name Class Packing group Labels	:	UN 1263 PAINT 3 III 3
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)	:	UN 1263 Paint 3 III Flammable Liquids 366 355
<b>IMDG-Code</b> UN number Proper shipping name	-	UN 1263 PAINT
Class Packing group Labels EmS Code Marine pollutant	:	3 III 3 F-E, <u>S-E</u> 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

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UN number Proper shipping name Class Packing group Labels Hazchem Code			UN 1263 PAINT 3 III 3 •3Y		

#### 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

Standard for the Uniform : Schedule 7 Scheduling of Medicines and Poisons

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.

#### **SECTION 16. OTHER INFORMATION**

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Date format : dd.mm.yyyy

#### Full text of other abbreviations

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



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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 Harmonized 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 Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration 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; 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 - Organization 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.

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