



Vers 4.1	ion	Revision Date: 30.09.2023		S Number: 4870-00012		sue: 04.04.2023 sue: 30.05.2018
Sect	ion 1: I	dentification				
	Produc	t name	:	Oxyclozanide Fo	rmulation	
	Manufa	acturer or supplier's d	letai	ls		
	Compa	ny	:	MSD		
	Addres	S	:	33 Whakatiki Stre Upper Hutt - New		g 908
	Telepho	one	:	0800 800 543		
	Emerge	ency telephone number	. :	0800 764 766 (08 CHEMCALL)	300 POISON)	0800 243 622 (0800
	E-mail :	address	:	EHSDATASTEW	ARD@msd.cor	n
	Recom	mended use of the ch	nemi	cal and restriction	ons on use	
		mended use tions on use	:	Veterinary produce Not applicable	ct	
Sect	ion 2: ł	Hazard identification				
	GHS C	lassification				
	Respira	atory sensitisation	:	Category 1		
	Skin se	nsitisation	:	Category 1		
	Reprod	uctive toxicity	:	Category 2		
		c target organ toxicity - exposure (Oral)	:	Category 2 (Cent	tral nervous sys	tem)
		c target organ toxicity - ed exposure	:	Category 2 (Brain	n, Liver)	

Hazardous to the aquatic : Category 2 environment - chronic hazard

GHS label elements

Hazard pictograms	:	

:

Signal word



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Hazaı	rd statements	H334 May cau difficulties if inh H361d Suspec H371 May cau swallowed. H373 May cau longed or repe	ted of damaging the unborn child. se damage to organs (Central nervous system) se damage to organs (Brain, Liver) through pro-
Preca	utionary statements	P202 Do not ha and understood P260 Do not bu P264 Wash ski P270 Do not ea P272 Contamin the workplace. P273 Avoid rel P280 Wear prote	reathe mist or vapours. in thoroughly after handling. at, drink or smoke when using this product. nated work clothing should not be allowed out o ease to the environment. otective gloves/ protective clothing/ eye protec-
		P304 + P340 II keep comfortal P308 + P311 II CENTER/ doct P333 + P313 If vice/ attention.	skin irritation or rash occurs: Get medical ad- experiencing respiratory symptoms: Call a FER/ doctor.
		Storage: P405 Store loc Disposal: P501 Dispose disposal plant.	ked up. of contents/ container to an approved waste
	r hazards which do n known.	ot result in classifica	tion
ection 3:	Composition/inform	nation on ingredients	
	ance / Mixture	: Mixture	
Comp	ponents		





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oxyclo	ozanide		2277-92-1	>= 2.5 -< 10					
	m metabisulphite		7681-57-4	>= 0.1 -< 1					
Section 4:	First-aid measures								
Gene	ral advice	vice immediat	ely.	eel unwell, seek medical ad- cases of doubt seek medical					
lf inha	aled	: If inhaled, ren Get medical a	nove to fresh air.						
In cas	e of skin contact	: In case of cor of water. Remove cont Get medical a Wash clothing	ntact, immediately fl aminated clothing a httention. 9 before reuse.						
In cas	se of eye contact	Thoroughly clean shoes before reuse.Flush eyes with water as a precaution.Get medical attention if irritation develops and persists.							
lf swa	If swallowed : If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.								
	important symptoms ffects, both acute and ed	 Never give anything by mouth to an unconscious person. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficuties if inhaled. Suspected of damaging the unborn child. May cause damage to organs if swallowed. May cause damage to organs through prolonged or repeate exposure. 							
Protec	ction of first-aiders	 First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8). 							
Notes to physician : Treat symptomatically and supportively.									

Section 5: Fire-fighting measures

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Chlorine compounds Nitrogen oxides (NOx) Metal oxides
Specific extinguishing meth-	:	Use extinguishing measures that are appropriate to local cir-



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for fir	ial protective equipment efighters hem Code	Use Rem so. Evad : In th	water spray to nove undamage cuate area. le event of fire	he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do e, wear self-contained breathing apparatus. ective equipment.
Section 6	: Accidental release me	asures		
tive e	onal precautions, protec- equipment and emer- y procedures	Follo	ow safe handli	ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
Envir	ronmental precautions	Prev Prev barr Reta Loca	vent further lea vent spreading iers). ain and dispos	he environment. akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages ed.
	ods and materials for ainment and cleaning up	For men be p Clea bent Loca posa emp mine Sec	large spills, pr to keep mate oumped, store an up remaining al or national r al of this mate oloyed in the c which regula tions 13 and 1	a absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding tional requirements.
Section 7	: Handling and storage			
Loca	nical measures I/Total ventilation ce on safe handling	CON : Use : Do r Do r Avoi Avoi Was Han prac	NTROLS/PER only with ade not breathe minot swallow. id contact with id prolonged c sh skin thoroug dle in accorda	measures under EXPOSURE SONAL PROTECTION section. quate ventilation. ist or vapours. or repeated contact with skin. ghly after handling. ance with good industrial hygiene and safety in the results of the workplace exposure as-

sessment



Oxyclozanide Formulation

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Cond	ene measures itions for safe storage rials to avoid	flushing syster place. When using do Wash contami The effective of engineering co appropriate de industrial hygie use of adminis Keep in proper Store locked u Store in accord : Do not store w	ance with the particular national regulations. ith the following product types:
		Strong oxidizin	y agoino

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
oxyclozanide	2277-92-1	TWA	0.4 mg/m3 (OEB 2)	Internal
Sodium metabisulphite	7681-57-4	WES-TWA	5 mg/m3	NZ OEL
	Further information	ation: Skin sensi	tiser, Respiratory ser	nsitiser
		TWA	5 mg/m3	ACGIH

Engineering measures	:	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.
Personal protective equipme	ent	
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type
Hand protection Material	:	Chemical-resistant gloves
Eye protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.



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Skin	and hady protection	:	Mark uniform or l			
	and body protection 9: Physical and chemica		Work uniform or la			
	earance	:	liquid			
Colo	ur	:	transparent, Stra	w-coloured		
Odou	Jr	:	No data available	9		
Odou	ur Threshold	:	No data available	9		
pН		:	No data available	9		
Melti	ng point/freezing point	:	No data available	9		
Initia rang	l boiling point and boiling e	:	No data available	9		
Flasl	n point	:	No data available	9		
Evap	poration rate	:	No data available	9		
Flam	mability (solid, gas)	:	Not applicable			
Flam	mability (liquids)	:	No data available	9		
	er explosion limit / Upper nability limit	:	No data available			
	er explosion limit / Lower nability limit	:	No data available			
Vapo	our pressure	:	No data available	9		
Rela	tive vapour density	:	No data available	2		
Rela	tive density	:	No data available	2		
Dens	sity	:	No data available	9		
	bility(ies) /ater solubility	:	completely misci	ble		
	tion coefficient: n-	:	Not applicable			
	nol/water -ignition temperature	:	No data available	9		
Deco	omposition temperature	:	No data available	9		
Visco V	osity iscosity, kinematic	:	No data available			



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	Explosi	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	ılar weight	:	No data available	9
	Particle	e size	:	Not applicable	
Sect	ion 10:	Stability and reactivi	ty		
	Reactiv		:		a reactivity hazard.
		cal stability ility of hazardous reac-	:	Stable under nor	
	tions	inty of fiazardous reac-	•	Can react with st	rong oxidizing agents.
		ons to avoid	:	None known.	
		atible materials lous decomposition	:	Oxidizing agents	composition products are known.
	produc		•		
Sect	ion 11:	Toxicological inform	atio	n	
	Exposu	ure routes	:	Inhalation Skin contact Ingestion Eye contact	
	Acute	toxicity			
	Not cla	ssified based on availa	ble	information.	
	Compo	onents:			
	oxyclo	zanide:			
	Acute o	oral toxicity	:	LD50 (Rat): 3,519 Target Organs: C	mg/kg entral nervous system
		oxicity (other routes of stration)	:	LDLo (sheep): 10 Application Route	
	Sodiur	n metabisulphite:			
		oral toxicity	:	LD50 (Rat): 1,540 Method: OECD Te	
	Acute i	nhalation toxicity	:	LC50 (Rat): > 5.5 Exposure time: 4 Test atmosphere: Remarks: Based of	h
	Acute o	dermal toxicity	:	LD50 (Rat): > 2,00 Method: OECD To Remarks: Based o	



rsion	Revision Date: 30.09.2023	SDS Number: 2784870-00012	Date of last issue: 04.04.2023 Date of first issue: 30.05.2018
-	corrosion/irritation lassified based on ava	ailable information.	
Comp	oonents:		
oxycl	ozanide:		
Rema	arks	: Not classifie	d due to lack of data.
Sodiu	um metabisulphite:		
Resul	-	: Skin irritatio	
Rema	irks	: Based on ha	ational or regional regulation.
	us eye damage/eye		
	lassified based on ava conents:	anable information.	
	ozanide:		
Rema		: Not classifie	d due to lack of data.
Sodiu	um metabisulphite:		
Speci	-	: Rabbit	
Resul			effects on the eye
Metho	Da	: OECD Test	Guideline 405
Resp	iratory or skin sensi	tisation	
-	sensitisation		
-	ause an allergic skin	reaction.	
-	iratory sensitisation	a symptoms or bre	athing difficulties if inhaled.
-	cause allergy of astrin		
-	lozanide:	: Dermal	
Rema	sure routes arks		d due to lack of data.
Sodiu	um metabisulphite:		
	ssment	: Probability of	or evidence of skin sensitisation in huma
Rema			ational or regional regulation.
Asses	ssment		sensitisation by inhalation.
Rema	arks	: Based on na	ational or regional regulation.



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Chro	nio tovioitu		
Germ	nic toxicity n cell mutagenicity		
	lassified based on ava	ailable information.	
	ponents:		
-	lozanide: toxicity in vitro	: Test Type: I Result: neg	Bacterial reverse mutation assay (AMES) ative
			Chromosomal aberration a: Human lymphocytes tive
		Test Type: I Result: posi	Mouse Lymphoma tive
Geno	toxicity in vivo	: Test Type: I Species: Mo Application Result: neg	Route: Oral
		Test Type: Species: Ra Cell type: Li Application Result: nega	ver cells Route: Oral
	cell mutagenicity -	: Weight of ev cell mutage	vidence does not support classification as a gerr n.
Sodiu	um metabisulphite:		
Geno	toxicity in vitro	: Test Type: I Result: nega	Bacterial reverse mutation assay (AMES) ative
			n vitro mammalian cell gene mutation test CD Test Guideline 476 ative
Geno	toxicity in vivo	cytogenetic Species: Mo Application Method: OE Result: neg	ouse Route: Subcutaneous CD Test Guideline 474

Carcinogenicity

Not classified based on available information.



/ersion I.1	Revision Date: 30.09.2023	SDS Nur 2784870		Date of last issue: 04.04.2023 Date of first issue: 30.05.2018
<u>Com</u>	ponents:			
охус	lozanide:			
Remarks		: Not c	lassified du	ue to lack of data.
Sodi	um metabisulphite:			
Spec		: Mous		
	cation Route	: Inges	stion Ionths	
Resu	sure time It	: 24 M		
Rema				rom similar materials
-	oductive toxicity			
•	ected of damaging the ponents:	unborn chil	d.	
-	lozanide: ts on fertility	: Test	T T	generation reproduction toxicity study
		Spec Appli Gene Symp and p	cies: Rat, m ication Rou eral Toxicity ptoms: Red postnatal de	ale and female
		Spec Appli	cies: Rat ication Rour eral Toxicity	generation reproduction toxicity study te: Oral r - Parent: LOAEL: 75 - 100 mg/kg body
		Symp and p	ptoms: Red postnatal de	uced body weight, No effects on embryofoet evelopment ts on fertility
		Spec Appli Early weigl	cies: Rat ication Rou / Embryonic ht	generation reproduction toxicity study te: Oral Development: LOAEL: 75 - 100 mg/kg body oxicity, No teratogenic effects
		Test Spec Appli Gene weigl	Type: One- cies: Rat ication Rou eral Toxicity ht ult: No fetoto	generation reproduction toxicity study
Effec	ts on foetal develop-	: Test	Type: Deve	elopment



sion	Revision Date: 30.09.2023	-	S Number: 84870-00012	Date of last issue: 04.04.2023 Date of first issue: 30.05.2018
ment				ute: Oral Toxicity: NOAEL: 200 mg/kg body weight toxicity, No teratogenic effects
				it
Repro sessm	oductive toxicity - As- nent	:	Suspected of d	lamaging the unborn child.
Sodiu	Im metabisulphite:			
Effect	s on fertility	:	Test Type: Thr Species: Rat Application Ro Result: negativ	
Effect ment	s on foetal develop-	:	Test Type: Em Species: Rabb Application Ro Result: negativ	ute: Ingestion
	- single exposure	(0)		
	ause damage to organ conents:	ns (Ce	entral nervous sy	vstem) if swallowed.
Expos Targe	ozanide: sure routes t Organs ssment	:	Oral Central nervou May cause dar	s system nage to organs.
			,	5 5
	- repeated exposure cause damage to organ		ain, Liver) throu	gh prolonged or repeated exposure.
Comp	oonents:			
oxycl	ozanide:			
Targe	t Organs ssment	:	Brain, Liver May cause dar exposure.	nage to organs through prolonged or repeate



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<u>Com</u> oxycl Speci		: Rat	
Expos	L cation Route sure time t Organs	: 9 mg/kg : 44.5 mg/kg : Oral : 3 Months : Brain, Liver, sp : Liver effects	leen, Adrenal gland
Expos	EL EL sution Route sure time to Organs	: Dog : 5 mg/kg : 25 mg/kg : Oral : 3 Months : Brain, Liver : blood effects, a	alteration in liver enzymes
Speci NOAE LOAE Applic	EL	: Rat : 110 mg/kg : 220 mg/kg : Ingestion : 104 Weeks	
Not cl	ation toxicity assified based on ava conents:	ailable information.	
oxycl	ozanide: pplicable		
Expe	rience with human e	exposure	
Comp	oonents:		
oxycl Inges	ozanide: tion	: Symptoms: Ma nervous syster	ay cause, Gastrointestinal disturbance, Central n depression
Section 12	2: Ecological inform	ation	
Ecoto	oxicity		
Com	oonents:		

oxyclozanide:



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-				
	ty to daphnia and other ic invertebrates	:	Exposure time: 4	nagna (Water flea)): 0.69 mg/l 8 h ïest Guideline 202
	ctor (Acute aquatic tox-	:	1	
icity) M-Fac toxicit	ctor (Chronic aquatic y)	:	1	
Sodiu	ım metabisulphite:			
Toxici	ty to fish	:	LC50 (Oncorhyno Exposure time: 9	chus mykiss (rainbow trout)): 178 mg/l 6 h
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): 89 mg/l 8 h
Toxici plants	ty to algae/aquatic	:	ErC50 (Desmode Exposure time: 7	esmus subspicatus (green algae)): 43.8 mg/ 2 h
			EC10 (Desmodes Exposure time: 7	smus subspicatus (green algae)): 33.3 mg/l 2 h
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: 3 Method: OECD T	io (zebra fish)): >= 316 mg/l 4 d rest Guideline 210 on data from similar materials
aquati	ty to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): >= 10 mg/l 1 d
ic toxi Toxici	ty to microorganisms	:	EC10 (Pseudomo Exposure time: 1	onas putida): 30.8 mg/l 7 h
Persis	stence and degradabili	ty		
<u>Comp</u>	oonents:			
oxycl	ozanide:			
Stabili	ity in water	:	: Hydrolysis: 50 %(156 d) Method: OECD Test Guideline 111	
Bioac	cumulative potential			
<u>Comp</u>	oonents:			
-	ozanide:			
	on coefficient: n- ol/water	:	log Pow: 3.99 pH: 7 Method: OECD T	est Guideline 107



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Mobil	lity in soil			
Comp	ponents:			
oxycl	lozanide:			
	bution among environ- al compartments	: log Koc: 4.83 Method: OECD	Test Guideline 106	
	r adverse effects ata available			
Section 1	3: Disposal considerat	tions		
Dispo	osal methods			
Waste	e from residues		of waste into sewer. ccordance with local regulations.	
Conta	aminated packaging	 Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste hadling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 		
Continu 1	4. Transport information			
Section 14	4: Transport informatio			
	4: Transport information			
	national Regulations			
Interr UNR UN nu	national Regulations	on : UN 3082 : ENVIRONMEN N.O.S.	<u> </u>	
Interr UNR UN nu Prope Class	national Regulations TDG umber er shipping name	on : UN 3082 : ENVIRONMEN N.O.S. (oxyclozanide) : 9	<u> </u>	
Interr UNR UN nu Prope Class Packi	national Regulations TDG umber er shipping name ng group	 UN 3082 ENVIRONMEN N.O.S. (oxyclozanide) 9 III 	<u> </u>	
Interr UNR UN nu Prope Class Packi Label	national Regulations TDG umber er shipping name ng group	on : UN 3082 : ENVIRONMEN N.O.S. (oxyclozanide) : 9	<u> </u>	
Interr UNR UN nu Prope Class Packi Label Enviro IATA	national Regulations TDG umber er shipping name ng group s onmentally hazardous -DGR	 UN 3082 ENVIRONMEN N.O.S. (oxyclozanide) 9 III 9 yes 	<u>· · · · · · · · · · · · · · · · · · · </u>	
Interr UNR UN nu Prope Class Packi Label Enviro IATA	national Regulations TDG umber er shipping name ng group s onmentally hazardous -DGR	 UN 3082 ENVIRONMEN N.O.S. (oxyclozanide) 9 III 9 yes UN 3082 Environmentally 	<u>· · · · · · · · · · · · · · · · · · · </u>	
Interr UNR UN nu Prope Class Packi Label Enviro IATA UN/IE Prope	national Regulations TDG umber er shipping name ing group s onmentally hazardous -DGR O No. er shipping name	 UN 3082 ENVIRONMEN N.O.S. (oxyclozanide) 9 III 9 yes UN 3082 Environmentally (oxyclozanide) 9 	TALLY HAZARDOUS SUBSTANCE, LIQUIE	
Interr UNR UN nu Prope Class Packi Label Enviro IATA UN/IE Prope Class Packi	national Regulations TDG umber er shipping name ing group s onmentally hazardous -DGR O No. er shipping name ing group	 UN 3082 ENVIRONMEN N.O.S. (oxyclozanide) 9 III 9 yes UN 3082 Environmentally (oxyclozanide) 9 III 	TALLY HAZARDOUS SUBSTANCE, LIQUIE	
Interr UNR UN nu Prope Class Packi Label Enviro IATA UN/IE Prope Class Packi Label Packi	national Regulations TDG umber er shipping name ing group s onmentally hazardous -DGR D No. er shipping name ing group s ng group s ng group s ng group s	 UN 3082 ENVIRONMEN N.O.S. (oxyclozanide) 9 III 9 yes UN 3082 Environmentally (oxyclozanide) 9 	TALLY HAZARDOUS SUBSTANCE, LIQUIE	
Interr UNRT UN nu Prope Class Packi Label Enviro IATA UN/IE Prope Class Packi Label Packi aircra Packi ger ai	national Regulations TDG umber er shipping name ang group s onmentally hazardous -DGR D No. er shipping name ang group s ng group s ng instruction (cargo ift) ng instruction (passen- ircraft)	 UN 3082 ENVIRONMEN N.O.S. (oxyclozanide) 9 III 9 yes UN 3082 Environmentally (oxyclozanide) 9 III Miscellaneous 964 964 	TALLY HAZARDOUS SUBSTANCE, LIQUIE	
Intern UNR UN nu Prope Class Packi Label Enviro IATA UN/IE Prope Class Packi Label Packi aircra Packi ger ai Enviro	national Regulations TDG umber er shipping name ing group s onmentally hazardous -DGR D No. er shipping name ing group s ng group s ng instruction (cargo ift) ng instruction (passen-	 UN 3082 ENVIRONMEN N.O.S. (oxyclozanide) 9 III 9 yes UN 3082 Environmentally (oxyclozanide) 9 III 9 9 111 9 9 9 111 9 9 9 111 9 9 111 9 9 111 9 9 111 9 111 9 111 111	TALLY HAZARDOUS SUBSTANCE, LIQUIE	



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Labels EmS (Code	: 9 : III : 9 : F-A, S-F	
Marine	e pollutant	: yes	

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

Not applicable for product as supplied.

National Regulations

NZS 5433		
UN number	: UN 3082	
Proper shipping name	: ENVIRONMENTAL N.O.S. (oxyclozanide)	LY HAZARDOUS SUBSTANCE, LIQUID,
Class	: 9	
Packing group	: 111	
Labels	: 9	
Hazchem Code	: 3Z	
Marine pollutant	: 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

HSNO Approval Number

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard

HSW Controls

Certified handler certificate not required.

Tracking hazardous substance not required.

Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

Section 16: Other information

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:

NZ OEL / WES-TWA



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Furt	her information			
	rces of key data used to pile the Safety Data et	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/
Date	e format	:	dd.mm.yyyy	
Full	text of other abbreviati	ons		
ACG NZ (:		eshold Limit Values (TLV) orkplace Exposure Standards for Atmospher-
ACG	GIH / TWA	:	8-hour, time-weig	hted average

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 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

: Workplace Exposure Standard - Time Weighted average

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text.





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Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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