

### Indoxacarb Formulation

Version 7.0	Revision Date: 06.07.2024		S Number: 502-00026	Date of last issue: 06.04.2024 Date of first issue: 24.10.2014
SECTION	1. IDENTIFICATION			
Produ	uct name	:	Indoxacarb Form	nulation
Manu	ifacturer or supplier's	s deta	ils	
Comp	bany	:	MSD	
Addre	ess	:		, 6th floor, Ciudad Autonoma rgentina C1013AAP
Telep	hone	:	908-740-4000	
Emer	gency telephone	:	1-908-423-6000	
E-ma	il address	:	EHSDATASTEV	VARD@msd.com
Reco	mmended use of the	chem	ical and restriction	ons on use
	mmended use ictions on use	:	Veterinary produ Not applicable	uct

#### **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification		
Flammable liquids	:	Category 2
Acute toxicity (Oral)	:	Category 4
Serious eye damage/eye irritation	:	Category 2A
Skin sensitization	:	Category 1
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 1 (Blood, Nervous system, Heart)
Short-term (acute) aquatic hazard	:	Category 2
Long-term (chronic) aquatic hazard	:	Category 2

#### **GHS** label elements



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Haza	rd pictograms		
Signa	l Word	: Danger	
Haza	rd Statements	H302 Harmfu H317 May ca H319 Causes H336 May ca H372 Causes Heart) throug	flammable liquid and vapor. I if swallowed. use an allergic skin reaction. s serious eye irritation. use drowsiness or dizziness. damage to organs (Blood, Nervous system, h prolonged or repeated exposure. o aquatic life with long lasting effects.
Preca	utionary Statements	and other ign P260 Do not P264 Wash s P270 Do not P271 Use on P272 Contam the workplace P273 Avoid re	elease to the environment. rotective gloves/ protective clothing/ eye protec-
		CENTER/ do P303 + P361 ly all contami P304 + P340 and keep con doctor if you f P305 + P351 for several m easy to do. C P314 Get me P333 + P313 vice/ attentior P337 + P313 tention. P362 + P364 reuse. P391 Collect <b>Storage:</b> P405 Store lo <b>Disposal:</b>	<ul> <li>+ P338 IF IN EYES: Rinse cautiously with water inutes. Remove contact lenses, if present and ontinue rinsing.</li> <li>dical advice/ attention if you feel unwell.</li> <li>If skin irritation or rash occurs: Get medical ad- n.</li> <li>If eye irritation persists: Get medical advice/ at-</li> <li>Take off contaminated clothing and wash it before spillage.</li> <li>bocked up.</li> <li>e of contents/ container to an approved waste</li> </ul>



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#### Other hazards which do not result in classification

Vapors may form explosive mixture with air.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Propan-2-ol	67-63-0	>= 30 -< 50
Indoxacarb (ISO)	173584-44-6	>= 10 -< 20

#### **SECTION 4. FIRST AID MEASURES**

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated
Protection of first-aiders	:	exposure. 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	:	High volume water jet
Specific hazards during fire	:	Do not use a solid water stream as it may scatter and spread



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fighti	ng		fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to h			
Haza ucts	rdous combustion prod-	:	Carbon oxides			
Spec ods	Specific extinguishing meth- ods		cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do		
	ial protective equipment e-fighters	:	Evacuate area. In the event of fire	e, wear self-contained breathing apparatus. rective equipment.		
SECTION	6. ACCIDENTAL RELE	ASI	EMEASURES			
tive e	onal precautions, protec- equipment and emer- y procedures	:	Follow safe handl			
Envir	onmental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages		
	ods and materials for ainment and cleaning up	:	Suppress (knock jet. For large spills, pro- containment to ke can be pumped, so container. Clean up remaining absorbent. Local or national of disposal of this m employed in the of determine which of Sections 13 and 1	s should be used. t absorbent material. down) gases/vapors/mists with a water spray rovide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to regulations are applicable. 5 of this SDS provide information regarding tional requirements.		

#### SECTION 7. HANDLING AND STORAGE

Technical measures

: See Engineering measures under EXPOSURE



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Lo	cal/Total ventilation	: If sufficient v ventilation.	PERSONAL PROTECTION section. ventilation is unavailable, use with local exhaust on-proof electrical, ventilating and lighting equip-
Ac	lvice on safe handling	: Do not get o Do not breat Do not swall Do not get ir Wash skin th Handle in ac practice, bas assessment Non-sparkin Keep contai Keep away f other ignitior Take precau Do not eat, o	a eyes. horoughly after handling. cordance with good industrial hygiene and safety sed on the results of the workplace exposure g tools should be used. her tightly closed. from heat, hot surfaces, sparks, open flames and n sources. No smoking. tionary measures against static discharges. drink or smoke when using this product. p prevent spills, waste and minimize release to the
Co	onditions for safe storage	: Keep in prop Store locked Keep tightly Keep in a co Store in acco	perly labeled containers. I up.
Ma	aterials to avoid	: Do not store Strong oxidi: Self-reactive Organic pero Flammable s Pyrophoric li Pyrophoric s Self-heating Substances flammable g Explosives Gases	with the following product types: zing agents e substances and mixtures oxides solids quids solids substances and mixtures and mixtures which in contact with water emit

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

	-			
Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Propan-2-ol	67-63-0	CMP	400 ppm	AR OEL
		CMP - CPT	500 ppm	AR OEL
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
Indoxacarb (ISO)	173584-44-6	TWA	50 µg/m3 (OEB 3)	Internal
	Further informa	ation: DSEN		

#### Ingredients with workplace control parameters



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<u>II</u>			Wipe limit	100 µg/100 cm2	Internal	

#### **Biological occupational exposure limits**

<b>Biological occupational</b>	exposure	limits				
Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Propan-2-ol	67-63-0	Acetone	Urine		2 mg/g creatinine	AR BEI
		Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI
Engineering measures	lf : ve Us	nimize workpla sufficient ventila ntilation. se explosion-pr juipment.	ation is unav	ailable, use	e with local exh	naust
Personal protective equ	ipment					
Respiratory protection Filter type Hand protection	ex re	adequate local posure assess commended gu ombined particu	ment demon uidelines, use	istrates exp e respirator	osures outside y protection.	
Material	: Cł	nemical-resista	nt gloves			
Remarks	on tin Fc gla pr pr	noose gloves to the concentra ne is not detern or special applic sistance to che oves with the g oduct is flamma otection. Wash orkday.	tion specific nined for the cations, we r micals of the love manufa able, which r	to place of product. C ecommend a aforemen cturer. Take nay impact	work. Breakth hange gloves clarifying the tioned protecti e note that the the selection	rough often! ve of hand
Eye protection	: W	ear the followir afety goggles	ig personal p	protective e	quipment:	
Skin and body protection	: Se re: pc W If : atu pr Sk	elect appropriat sistance data a itential. ear the followin assessment de mospheres or f otective clothin in contact mus othing (gloves,	nd an asses ng personal p monstrates t lash fires, us g. st be avoided	esment of the protective e that there is se flame ret I by using in	e local exposi quipment: a risk of explo ardant antistat	ure osive tic
Hygiene measures	: If ey ey WC Co	exposure to che e flushing syste orking place. hen using do n ontaminated we	emical is like ems and saf ot eat, drink	ely during ty ety showers or smoke.	s close to the	

workplace.



ersion .0	Revision Date: 06.07.2024		S Number: 502-00026	Date of last issue: 06.04.2024 Date of first issue: 24.10.2014
			Wash contam	inated clothing before re-use.
ECTION	9. PHYSICAL AND CH	EMIC	CAL PROPER	TIES
Appe	arance	:	liquid	
Color		:	White to light	yellow
Odor		:	sweet	
Odor	Threshold	:	No data avail	able
рН		:	No data avail	able
Meltir	ng point/freezing point	:	No data avail	able
Initial range	boiling point and boiling	:	No data avail	able
Flash	point	:	18 °C	
Evap	oration rate	:	No data avail	able
Flam	mability (solid, gas)	:	Not applicabl	e
Flam	mability (liquids)	:	No data avail	able
	r explosion limit / Upper nability limit	:	No data avail	able
	r explosion limit / Lower nability limit	:	No data avail	able
Vapo	r pressure	:	No data avail	able
Relat	ive vapor density	:	No data avail	able
Relat	ive density	:	No data avail	able
Dens	ity	:	1,12 g/cm <sup>3</sup>	
	ility(ies) ater solubility	:	No data avail	able
	ion coefficient: n-	:	Not applicabl	e
	ol/water gnition temperature	:	No data avail	able
Deco	mposition temperature	:	No data avail	able
Visco Vi	sity scosity, kinematic	:	No data avail	able
Explo	sive properties	:	Not explosive	1



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Oxidiz	ing properties	:	The substance o	r mixture is not classified as oxidizing.	
Molecu	ular weight	:	No data available	e	
Particl Particl	e characteristics e size	:	Not applicable		
SECTION 1	IO. STABILITY AND RI	EAC	ΤΙVITY		
	vity cal stability ility of hazardous reac-	:	Stable under nor Highly flammable Vapors may form	a reactivity hazard. mal conditions. e liquid and vapor. n explosive mixture with air. trong oxidizing agents.	
Incom	ions to avoid patible materials dous decomposition cts	:	Heat, flames and Oxidizing agents No hazardous de		
	11. TOXICOLOGICAL I	NFC	ORMATION		
Inform exposi	ation on likely routes of ure	:	Inhalation Skin contact Ingestion Eye contact		
	toxicity ul if swallowed.				
<u>Produ</u>	<u>ct:</u>				
Acute	oral toxicity	:	Acute toxicity esti Method: Calculati	mate: 916,54 mg/kg on method	
Acute	inhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati	h dust/mist	
<u>Comp</u>	onents:				
Propa	n-2-ol:				
Acute	oral toxicity	:	LD50 (Rat): > 5.0	00 mg/kg	
Acute	inhalation toxicity	:	LC50 (Rat): > 25 Exposure time: 6 Test atmosphere:	h	
Acute	dermal toxicity	:	LD50 (Rabbit): >	5.000 mg/kg	
II Indoxa	acarb (ISO):				



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Acute	e oral toxicity	:	LD50 (Rat, female Symptoms: Loss	e): 179 mg/kg of reflexes, Breathing difficulties, Tremors
			LD50 (Rat, male):	: 843 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat, female Exposure time: 4 Test atmosphere:	h
Acute	e dermal toxicity	:	LD50 (Rat, male a	and female): > 5.000 mg/kg
	corrosion/irritation lassified based on avail	able	information.	
Com	ponents:			
	an-2-ol:			
Spec Resu		:	Rabbit No skin irritation	
Indox Resu	<b>kacarb (ISO):</b> It	:	No skin irritation	
Caus	ous eye damage/eye ir es serious eye irritation. ponents:		on	
-	an-2-ol:			
Spec Resu	ies	:	Rabbit Irritation to eyes,	reversing within 21 days
	kacarb (ISO):			
Resu	It	:	No eye irritation	
Resp	iratory or skin sensiti	zatio	'n	
-	sensitization cause an allergic skin re	eactio	on.	
-	iratory sensitization lassified based on avail	able	information.	
Com	ponents:			
Prop	an-2-ol:			
Test Route Speci Metho Resu	es of exposure ies od		Buehler Test Skin contact Guinea pig OECD Test Guide negative	eline 406



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Indox	acarb (ISO):		
Test T		: Maximizatio	on Test
Speci		: Guinea pig	
Resul	t	: positive	
	cell mutagenicity assified based on av	ailable information.	
<u>Comp</u>	oonents:		
Propa	an-2-ol:		
Genot	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
		Test Type: Result: neg	In vitro mammalian cell gene mutation test ative
Genot	toxicity in vivo	cytogenetic Species: M	ouse Route: Intraperitoneal injection
II Indox	acarb (ISO):		
Genot	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
			Chromosomal aberration n: mammalian cells ative
			In vitro mammalian cell gene mutation test n: Chinese hamster ovary cells ative
Genot	toxicity in vivo	Species: M	one marrow
	<b>nogenicity</b> assified based on av	ailable information.	
	oonents:		
	an-2-ol:		
Speci		: Rat	
Applic	ation Route	: inhalation (	vapor)
Evnor	sure time	: 104 weeks	
Metho			Guideline 451



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Speci Applic Expos	cation Route sure time iency of Treatment		Rat, male and fen oral (feed) 2 Years daily negative	nale	
Expos	cation Route sure time lency of Treatment		Mouse, male and female oral (feed) 18 Months daily negative		
Not cl <u>Com</u>	oductive toxicity assified based on availa ponents:	ble	information.		
	an-2-ol: s on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion	
Effect	s on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	o-fetal development : Ingestion	
Indox	acarb (ISO):				
	s on fertility	:	Test Type: Two-g Species: Rat Application Route General Toxicity F Result: negative		
			General Toxicity F	: Oral Parent: NOAEL: 1,3 mg/kg body weight F1: NOAEL: > 6,7 mg/kg body weight kic effects and adverse effects on the off-	
Effect	s on fetal development	:	Test Type: Develo Species: Rat Developmental To Result: No teratog	oxicity: NOAEL: 2 mg/kg body weight	
			Test Type: Develo Species: Rabbit Application Route Developmental To Result: No advers	: Oral oxicity: NOAEL: 500 mg/kg body weight	



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		Test Type: D Species: Rat Application R Development					
	Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 100 mg/kg body weight						
	-single exposure						
	cause drowsiness or o conents:	dizziness.					
Asses	an-2-ol: ssment	: May cause d	rowsiness or dizziness.				
••		,					
			tem, Heart) through prolonged or repeated				
<u>Com</u>	oonents:						
Indox	acarb (ISO):						
	et Organs ssment		us system, Heart age to organs through prolonged or repeated				
Repe	ated dose toxicity						
-	oonents:						
Propa	an-2-ol:						
Speci	es	: Rat					
NOAE Applic	L cation Route	: 12,5 mg/l : inhalation (va	ipor)				
Expos	sure time	: 104 Weeks					
Indox	acarb (ISO):						
Speci	es	: Rat, male and	d female				
NOAE LOAE		: 1,7 mg/kg : 4,1 mg/kg					
Applic	cation Route	: Oral					
	sure time et Organs	: 90 d : Blood, Centra	al nervous system				
Speci	es	: Rat, male and	d female				
NOAE	EL	: 50 mg/kg					
		: 500 mg/kg					
LOAE	cation Route	: Dermal					



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Targe	t Organs	:	Blood	
Speci	es	:	Rat	
NOAE	EL	:	4.6 mg/m3	
LOAE		:	23 mg/m3	
	cation Route	÷	Inhalation	
	sure time t Organs	:	4 Weeks Blood, Lungs	
Speci	es	:	Rat, male and fer	nale
NOAE		:	1 mg/kg	
LOAE		:	2 mg/kg	
	cation Route	÷	Oral	
	sure time t Organs	:	1 y Blood	
Speci		:	Dog	
NOAE		:	1 mg/kg	
LOAE		:	2 mg/kg	
	cation Route	÷	Oral	
	sure time t Organs	:	1 y Blood	
Speci	es	:	Mouse	
NOAE		:	3 mg/kg	
LOAE		:	14 mg/kg	
	cation Route	:	oral (feed)	
	sure time t Organs	:	18 Months Nervous system,	Heart
Not cl Exper Comp	ation toxicity assified based on availa rience with human exp ponents:			
	acarb (ISO):			
	ral Information 12. ECOLOGICAL INFO	:	No human inform	ation is available.
		J.L.II	IATION	
	oxicity			
	oonents:			
	an-2-ol:			
IOXICI	ty to fish	:	Exposure time: 96	s promelas (fathead minnow)): 9.640 mg/l 5 h
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 24	nagna (Water flea)): > 10.000 mg/l 4 h
Toxici	ty to microorganisms	:	EC50 (Pseudomo Exposure time: 16	nas putida): > 1.050 mg/l



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II			
Indo	xacarb (ISO): tity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0,65 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
			LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,9 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
	tity to daphnia and other tic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0,6 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxic plant	ity to algae/aquatic s	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 0,6 mg/l Exposure time: 72 h
			NOEC (Pseudokirchneriella subcapitata (green algae)): 0,46 mg/l Exposure time: 72 h
	ctor (Acute aquatic tox-	:	1
	tity to daphnia and other tic invertebrates (Chron-	:	NOEC (Daphnia magna (Water flea)): 0,09 mg/l Exposure time: 21 d
	ctor (Chronic aquatic	:	1
Pers	istence and degradabili	ity	
<u>Com</u>	ponents:		
	<b>an-2-ol:</b> egradability	:	Result: rapidly degradable
BOD,	/COD	:	BOD: 1,19 (BOD5) COD: 2,23 BOD/COD: 53 %
Bioa	ccumulative potential		
<u>Com</u>	ponents:		
-	an-2-ol:		
octar	ion coefficient: n- nol/water	:	log Pow: 0,05
Partit	xacarb (ISO): ion coefficient: n- iol/water	:	log Pow: 4,65



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Mobi	lity in soil				
Com	ponents:				
Indo	kacarb (ISO):				
	bution among environ- al compartments	: log Koc: 3,9			
Othe	r adverse effects				
No da	ata available				
SECTION	13. DISPOSAL CONS	DERATIONS			
Disp	osal methods				
Wast	e from residues		of waste into sewer. ccordance with local regulations.		
Conta	aminated packaging	: Empty containe handling site fo Empty containe Do not pressuri expose such co	<ul> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> <li>Empty containers retain residue and can be dangerous.</li> <li>Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or</li> </ul>		

If not otherwise specified: Dispose of as unused product.

#### **SECTION 14. TRANSPORT INFORMATION**

#### **International Regulations**

<b>UNRTDG</b> UN number Proper shipping name Class Packing group Labels Environmentally hazardous	-	UN 1219 ISOPROPANOL SOLUTION 3 II 3 no
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)	:	Isopropanol solution 3 II Flammable Liquids 364
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code	:	UN 1219 ISOPROPANOL SOLUTION (Indoxacarb (ISO)) 3 II 3 F-E, S-D

death.



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Marine pollutant : yes

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

Not applicable for product as supplied.

#### 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

Argentina. Carcinogenic Substances and Agents: Not applicableRegistry.: Not applicableControl of precursors and essential chemicals for the<br/>preparation of drugs.: Propan-2-ol

#### The ingredients 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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#### Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

#### Full text of other abbreviations

ACGIH ACGIH BEI AR BEI AR OEL	:	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) Argentina. Biological Exposure Indices Argentina. Occupational Exposure Limits
ACGIH / TWA ACGIH / STEL AR OEL / CMP AR OEL / CMP - CPT	:	8-hour, time-weighted average Short-term exposure limit TLV (Threshold Limit Value) STEL (Short Term Limit Value)



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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

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 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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