



Version 5.1	Revision Date: 30.09.2023		S Number: 65468-00007	Date of last issue: 04.04.2023 Date of first issue: 14.12.2020
Section 1	: Identification			
Prod	uct name	:	Atropine Sulfate	Formulation
Man	ufacturer or supplier's d	leta	ils	
Com	pany	:	MSD	
Addr	ess	:	33 Whakatiki Stro Upper Hutt - New	reet - Private Bag 908 w Zealand
Telep	ohone	:	0800 800 543	
Eme	rgency telephone number	r:	0800 764 766 (08 CHEMCALL)	0800 POISON) 0800 243 622 (0800
E-ma	ail address	:	EHSDATASTEW	VARD@msd.com
Reco	ommended use of the ch	nem	ical and restriction	ons on use
	ommended use rictions on use	:	Veterinary produ Not applicable	lot
Section 2	2: Hazard identification			
GHS	Classification			
Skin	sensitisation	:	Category 1	
Repr	oductive toxicity	:	Category 2	
	label elements ard pictograms	:		\land
Signa	al word	:	Warning	▼
Haza	ard statements	:		e an allergic skin reaction. I of damaging fertility or the unborn child.
Prec	autionary statements	:	P202 Do not han and understood. P261 Avoid brea	ecial instructions before use. ndle until all safety precautions have been rea athing mist or vapours. ated work clothing should not be allowed out o



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P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

Storage:

P405 Store locked up.

Disposal:

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

Other hazards which do not result in classification

None known.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Benzyl alcohol	100-51-6	>= 1 -< 10
Atropine Sulfate	5908-99-6	>= 0.1 -< 1

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.
In case of skin contact	 In case of contact, immediately flush skin with soap and 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	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	 If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	: May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child.





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Protec	tion 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).			
	to physician	:	Treat symptomatically and supportively.			
ection 5:	Fire-fighting measure	S				
Suitab	le extinguishing media	:	Water spray Alcohol-resistan Carbon dioxide Dry chemical			
Unsuit media	able extinguishing	:	None known.			
	ic hazards during fire-	:	Exposure to con	nbustion products may be a hazard to health.		
	dous combustion prod-	:	Carbon oxides Metal oxides Chlorine compo	unds		
Specif ods	ic extinguishing meth-	:	cumstances and Use water spray	ng measures that are appropriate to local cir- I the surrounding environment. I to cool unopened containers. aged containers from fire area if it is safe to d		
	al protective equipment fighters	:		re, wear self-contained breathing apparatus. otective equipment.		
ection 6:	Accidental release me	easi	ures			
tive eq	nal precautions, protec- uipment and emer- procedures	:	Follow safe hand	otective equipment. dling advice (see section 7) and personal pro- nt recommendations (see section 8).		
Enviro	nmental precautions	:	Prevent further I Prevent spreadin barriers). Retain and dispo	the environment. eakage or spillage if safe to do so. ng over a wide area (e.g. by containment or c ose of contaminated wash water. s should be advised if significant spillages ined.		
	ds and materials for nment and cleaning up	:	For large spills, ment to keep ma be pumped, stor Clean up remain bent. Local or nationa posal of this mat employed in the mine which regu	ert absorbent material. provide dyking or other appropriate contain- aterial from spreading. If dyked material can be recovered material in appropriate containen- ning materials from spill with suitable absor- l regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- nations are applicable. 15 of this SDS provide information regarding		



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		certain local or n	ational requirements.		
Section 7	: Handling and storage	6			
Tech	nical measures		measures under EXPOSURE RSONAL PROTECTION section.		
	/Total ventilation e on safe handling	 Use only with adequate ventilation. Avoid inhalation of vapour or mist. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and practice, based on the results of the workplace exposu sessment Take care to prevent spills, waste and minimize releas environment. 			
Hygić	ene measures	 If exposure to chemical is likely during typical use, pro flushing systems and safety showers close to the work place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include revi engineering controls, proper personal protective equip appropriate degowning and decontamination procedur industrial hygiene monitoring, medical surveillance and use of administrative controls. 			
Cond	litions for safe storage	: Keep in properly	labelled containers. nce with the particular national regulations.		
Mate	rials to avoid	 Do not store with the following product types: Strong oxidizing agents 			

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
Atropine Sulfate	5908-99-6	TWA	2 µg/m3 (OEB 4)	
	Further informa	ation: Eye		
		Wipe limit	20 µg/100 cm ²	

Engineering measures : All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Essentially no open handling permitted. Use closed processing systems or containment technologies. If handled in a laboratory, use a properly designed biosafety cabinet, fume hood, or other containment device if the potential exists for aerosolization. If this potential does not exist,



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			handle over line	ed trays or benchtops.				
Perso	onal protective equip	ment						
Respiratory protection		 If adequate local exhaust ventilation is not available or e sure assessment demonstrates exposures outside the re ommended guidelines, use respiratory protection. Combined particulates and organic vapour type 						
	Filter type Hand protection							
M	aterial	:	Chemical-resist	ant gloves				
Re	emarks	:	Consider double	e gloving.				
Eye p	protection	:	 Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty cor mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there potential for direct contact to the face with dusts, mis aerosols. 					
Skin a	and body protection	:	Additional body task being perfo posable suits) to	r laboratory coat. garments should be used based upon the prmed (e.g., sleevelets, apron, gauntlets, dis- p avoid exposed skin surfaces. e degowning techniques to remove potentially othing.				

Section 9: Physical and chemical properties

Appearance	:	liquid
Colour	:	Translucent-colorless to pale yellow
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	3.0 - 6.5
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, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available





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		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available	9
	Relative	e vapour density	:	No data available	9
	Relative	e density	:	No data available	9
	Density	,	:	0.900 - 1.100 g/c	m ³
	Solubili Wat	ty(ies) er solubility	:	No data available	
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	9
	Particle	e size	:	Not applicable	

Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products		None known. Oxidizing agents No hazardous decomposition products are known.

Section 11: Toxicological information

Exposure routes	: Inhalation Skin contact Ingestion Eye contact
	Eye contact



Produc Acute o	sified based on ava	ailable :	Acute toxicity est			
Not clas <u>Produc</u> Acute o	ssified based on ava <u>t:</u> ral toxicity	ailable :	Acute toxicity est			
Not clas <u>Produc</u> Acute o	ssified based on ava <u>t:</u> ral toxicity	ailable :	Acute toxicity est			
Acute o	ral toxicity	:				
	-	:				
Acute in	halation toxicity		Method: Calculat	timate: > 2,000 mg/kg tion method		
		:	Acute toxicity est			
			Exposure time: 4 Test atmosphere			
			Method: Calculat			
Acute d	ermal toxicity	:	: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method			
<u>Compo</u>	nents:					
Benzyl	alcohol:					
Acute o	ral toxicity	:	LD50 (Rat): 1,62	20 mg/kg		
Acute in	halation toxicity	:	LC50 (Rat): > 4.1			
			Exposure time: 4 Test atmosphere			
				Test Guideline 403		
Acute d	ermal toxicity	:	Acute toxicity est	timate: 1,100 mg/kg		
			Method: Expert j	udgement		
			Remarks: Based	on national or regional regulation.		
Atropin	e Sulfate:					
Acute o	ral toxicity	:	LD50 (Rat): 500	mg/kg		
			LD50 (Mouse): 7	′5 mg/kg		
			LD50 (Rabbit): 6	i00 mg/kg		
			LD50 (Guinea pi	g): 1,100 mg/kg		
Skin co						

Not classified based on available information.

Components:

Benzyl alcohol:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.



Atropii	ne Sulfate Forr	nula	lion		
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Com	ponents:				
	yl alcohol:				
Spec	•	:	Rabbit		
Resu	llt	:	Irritation to eyes	s, reversing within 21 days	
Meth	od	:	OECD Test Gu	ideline 405	
Resp	piratory or skin sens	itisatio	n		
Skin	sensitisation				
May	cause an allergic skin	reactio	on.		
Resp	piratory sensitisation	ו			
Not c	lassified based on av	ailable	information.		
Com	ponents:				
Benz	yl alcohol:				
	ssment	:		vidence of skin sensitisation in humans	
Rema	arks	:	Based on natio	nal or regional regulation.	
Chro	nic toxicity				
Germ	n cell mutagenicity				
Not c	lassified based on av	ailable	information.		
Com	ponents:				
Benz	yl alcohol:				
Genc	otoxicity in vitro	:	Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e	
Geno	otoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in			

cytogenetic assay) Species: Mouse

Result: negative

Result: negative

cell mutagen.

:

:

Application Route: Intraperitoneal injection

Test Type: Bacterial reverse mutation assay (AMES)

Weight of evidence does not support classification as a germ

Carcinogenicity

Assessment

Atropine Sulfate:

Genotoxicity in vitro

Germ cell mutagenicity -

Not classified based on available information.



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<u>Com</u>	oonents:						
Bonz	yl alcohol:						
Speci	-	:	Mouse				
Applio	cation Route	:	Ingestion				
Expo: Metho	sure time	:	103 weeks OECD Test Gu	ideline 151			
Resu		:	negative				
Atrop	oine Sulfate:						
Speci		:	Rat Intraperitoneal	iniantian			
	cation Route sure time	:	28 month(s)	Injection			
NÓA		:	2.5 mg/kg bw/d	ay			
Resu	IT	:	negative				
Carci ment	nogenicity - Assess-	:	Weight of evidence does not support classification as a car cinogen				
-	oductive toxicity ected of damaging fert	lity or	the unborn child	I.			
Com	ponents:						
Benz	yl alcohol:						
Effect	ts on fertility	:		ility/early embryonic development			
			Species: Rat Application Rou	Ite: Ingestion			
			Result: negativ	9			
			Remarks: Base	d on data from similar materials			
	ts on foetal develop-	:		oryo-foetal development			
ment			Species: Mouse				
			ADDIICATION ROL				
			Result: negativ	ite: Ingestion			
-	bine Sulfate:		Result: negativ	ute: Ingestion e			
-	bine Sulfate: ts on fertility	:	Result: negativ Test Type: Fer	ite: Ingestion e ility/early embryonic development			
-		:	Result: negativ	ute: Ingestion e ility/early embryonic development nale			
-		:	Result: negativ Test Type: Fert Species: Rat, n Application Rot	ute: Ingestion e ility/early embryonic development nale ute: Ingestion y - Parent: LOAEL: 62.5 mg/kg body weig			
-		:	Result: negativ Test Type: Fert Species: Rat, n Application Rot General Toxicit Result: Reduce Test Type: Fert	ility/early embryonic development hale ite: Ingestion y - Parent: LOAEL: 62.5 mg/kg body weig d fertility			
-		:	Result: negativ Test Type: Fert Species: Rat, n Application Rou General Toxicit Result: Reduce Test Type: Fert Species: Rat, fo Application Rou	ility/early embryonic development hale ute: Ingestion y - Parent: LOAEL: 62.5 mg/kg body weig d fertility ility/early embryonic development emale ute: Intraperitoneal injection			
-		:	Result: negativ Test Type: Fert Species: Rat, n Application Rou General Toxicit Result: Reduce Test Type: Fert Species: Rat, fe Application Rou General Toxicit	ility/early embryonic development hale ute: Ingestion y - Parent: LOAEL: 62.5 mg/kg body weig d fertility ility/early embryonic development emale			
Effect		:	Result: negativ Test Type: Fert Species: Rat, n Application Rou General Toxicit Result: Reduce Test Type: Fert Species: Rat, fe Application Rou General Toxicit Result: Effect o	ility/early embryonic development hale ite: Ingestion y - Parent: LOAEL: 62.5 mg/kg body weig d fertility ility/early embryonic development emale ite: Intraperitoneal injection y - Parent: LOAEL: 1 mg/kg body weight			



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			te: Intravenous injection Toxicity: LOAEL: 50 mg/kg body weight
			alities of the musculosketal system
Reproc sessme	luctive toxicity - As- ent		of adverse effects on sexual function and on development, based on animal experimen
	- single exposure ssified based on avai	lable information.	
Compo	onents:		
Atropi	ne Sulfate:		
Assess	ment		or mixture is not classified as specific target single exposure.
STOT	- repeated exposure		
Not cla	ssified based on avai	lable information.	
<u>Compo</u>	onents:		
Atropi	ne Sulfate:		
	ire routes	: Inhalation	
Assess	Organs sment		ice significant health effects in animals at cor 0 ppmV/6h/d or less.
Repea	ted dose toxicity		
<u>Compo</u>	onents:		
Benzy	alcohol:		
Specie	S	: Rat	
NOAEI		: 1.072 mg/l	
	ation Route ure time	: inhalation (dust : 28 Days	/mist/fume)
Method		: OECD Test Gui	deline 412
Atropi	ne Sulfate:		
Specie	S	: Rabbit	
LÖAEL		: 59 mg/kg	
	ation Route	: Subcutaneous : 100 d	
	ure time Organs	: Central nervous	system
Sympto			spiratory depression
Specie		: Rat	
LOAEL		: 0.5 mg/kg	
	ation Route ure time	: Inhalation : 21 d	
	Organs	: Eye	
Taiyei			



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Symp	toms	:	Dilatation of the p	upil			
Species LOAEL Application Route Exposure time Target Organs Symptoms			Dog 0.5 mg/kg Inhalation 21 d Eye Dilatation of the pupil				
-	ation toxicity assified based on availa	ble	information.				
-	ience with human exp	osı	ire				
	oonents:						
-	ine Sulfate: al Information	:	Symptoms: dry m	entral nervous system outh, Blurred vision, tachycardia, constipa us system effects, restlessness, Fatigue, epression			
	2: Ecological information	on					
	oxicity ponents:						
	/l alcohol:						
-	ty to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 460 mg/l 3 h			
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te				
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To				
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te				
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD To				

Atropine Sulfate:



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Toxic	ity to daphnia and other		EC50 (Danhaia	magna (Water flea)): 356 mg/l
	tic invertebrates	•	Exposure time:	
Persi	stence and degradabil	ity		
Com	ponents:			
	yl alcohol: egradability	:	Result: Readily Biodegradation: Exposure time:	92 - 96 %
Bioad	ccumulative potential			
Com	ponents:			
Partiti	yl alcohol: ion coefficient: n- ol/water	:	log Pow: 1.05	
Partiti	bine Sulfate: ion coefficient: n- iol/water	:	log Pow: 1.83	
	lity in soil ata available			
	r adverse effects ata available			

Section 13: Disposal considerations

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste han-
		dling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.

Section 14: Transport information

International Regulations

UNRTDG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels		Not applicable

IATA-DGR



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UN/IE) No		Not applicable	
	er shipping name	÷	Not applicable	
Class		÷	Not applicable	
Subsi	diary risk	:	Not applicable	
	ng group	:	Not applicable	
Label	-	:	Not applicable	
Packi aircra	ng instruction (cargo ft)	:	Not applicable	
	ng instruction (passen- ircraft)	:	Not applicable	
IMDG	i-Code			
	umber	:	Not applicable	
Prope	er shipping name	:	Not applicable	
Class	;	:	Not applicable	
	diary risk	:	Not applicable	
	ng group	:	Not applicable	
Label	-	:	Not applicable	
EmS		÷	Not applicable	
Marin	e pollutant	•	Not applicable	
Trans	sport in bulk according	j to	Annex II of MAR	POL 73/78 and the IBC Code
Not a	pplicable for product as	sup	plied.	
Natio	nal Regulations			
	5433			
	number	:	Not applicable	

UN number:Not applicableProper shipping name:Not applicableClass:Not applicableSubsidiary risk:Not applicablePacking group:Not applicableLabels:Not applicableHazchem Code:Not applicable

Special precautions for user

Not applicable

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:



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DSL		:	not determined	
AICS	3	:	not determined	
IECS	SC	:	not determined	
Section 1	6: Other information			
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Furt	her information			
	ces of key data used to bile the Safety Data et	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/
Date	format	:	dd.mm.yyyy	

Full text of other abbreviations

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



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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. 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.

NZ / EN