



Version	Revision Date:	SDS Number:	Date of last issue: 2023/09/30
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1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name	:	Atropine Sulfate Formulation
Supplier's company name, ac Company name of supplier		ess and phone number MSD
Address	:	Kumagaya, Saitama Prefecture , Xicheng 810 MSD Co., Ltd. Menuma factory
Telephone	:	048-588-8411
E-mail address	:	EHSDATASTEWARD@msd.com
Emergency telephone number	:	+1-908-423-6000

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

2. HAZARDS IDENTIFICATION

GHS classification of chemical product

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

GHS label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
Benzyl alcohol	100-51-6	>= 0.9091 - <= 1.1111	3-1011
Atropine Sulfate	5908-99-6	>= 0.1 - < 1	

4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical ad-



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			vice immediately When symptoms advice.	/. s persist or in all cases of doubt seek medica	
lf inha	aled	:	If inhaled, removed Get medical atte		
In case of skin contact		:	In case of conta of water. Remove contam Get medical atte Wash clothing b	ct, immediately flush skin with soap and plei inated clothing and shoes. ention.	
In cas	se of eye contact	:	Flush eyes with	water as a precaution. Intion if irritation develops and persists.	
lf swa	If swallowed		If swallowed, DC Get medical atte	NOT induce vomiting.	
and e	important symptoms ffects, both acute and ed	:	None known.		
Protec	delayed Protection 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	:	I reat symptoma	tically and supportively.	
	ble extinguishing media	:	Water spray Alcohol-resistan Carbon dioxide Dry chemical		
Unsui media	table extinguishing	:	None known.		
	fic hazards during fire-	:	Exposure to con	nbustion products may be a hazard to health	
	dous combustion prod-	:	Carbon oxides Metal oxides Chlorine compo	unds	
Speci ods	fic extinguishing meth-	:	cumstances and Use water spray Remove undam so.	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	
	al protective equipment	:		re, wear self-contained breathing apparatus otective equipment.	

Personal precautions, protec- :	Use personal protective equipment.
tive equipment and emer-	Follow safe handling advice (see section 7) and personal pro-
gency procedures	tective equipment recommendations (see section 8).



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Environmental precautions		:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or o barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.		
Methods and materials for containment and cleaning up		:	For large spills, pument to keep mat be pumped, store Clean up remaining bent. Local or national uposal of this mate employed in the comine which regular Sections 13 and 1	t 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.	

7. HANDLING AND STORAGE

5		
Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	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 safety practice, based on the results of the workplace exposure as- sessment Take care to prevent spills, waste and minimize release to the environment.
Avoidance of contact Hygiene measures	:	Oxidizing agents If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke.
		Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
Storage		
Conditions for safe storage	:	Keep in properly labelled containers.

Conditions for safe storage : Keep in properly labelled containers.



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Mater	ials to avoid		ance with the particular national regulations. h the following product types: g agents

Packaging material

: Unsuitable material: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Reference concentration / Permissible con- centration	Basis
Benzyl alcohol	100-51-6	OEL-C	25 mg/m3	JP OEL JSOH
			tizing agent; Group 2 reactions in humans.	
Atropine Sulfate	5908-99-6	TWA	2 µg/m3 (OEB 4)	
	Further informa	ation: Eye		
		Wipe limit	20 µg/100 cm²	

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 poten- tial exists for aerosolization. If this potential does not exist, handle over lined trays or benchtops.
Personal protective equipment	

Personal protective equipment

Respiratory protection Filter type Hand protection	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type
Material	Chemical-resistant gloves
Remarks : Eye protection :	Consider double gloving. 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.
Skin and body protection	Work uniform or laboratory coat. Additional body garments should be used based upon the



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			posable suits) to	med (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. degowning techniques to remove potentially thing.
9. PHYSIC	CAL AND CHEMICAL P	ROF	PERTIES	
Physi	ical state	:	liquid	
Colou	ır	:	Translucent-colo	orless to pale yellow
Odou	r	:	No data availabl	e
Odou	r Threshold	:	No data availabl	e
Meltir	ng point/freezing point	:	No data availabl	e
	g point, initial boiling and boiling range	:	No data availabl	e
Flam	mability (solid, gas)	:	Not applicable	
Flam	mability (liquids)	:	No data availabl	e
Up	r explosion limit and upp oper explosion limit / Up er flammability limit			
	ower explosion limit / ower flammability limit	:	No data availabl	e
Flash	point	:	No data availabl	e
Deco	mposition temperature	:	No data availabl	e
pН		:	3.0 - 6.5	
Evap	oration rate	:	No data availabl	e
Auto-	ignition temperature	:	No data availabl	e
Visco Vis	sity scosity, kinematic	:	No data availabl	e
	oility(ies) ater solubility	:	No data availabl	e
	ion coefficient: n- ol/water	:	Not applicable	
Vapo	ur pressure	:	No data availabl	e
Dens	ity and / or relative dens	sity		



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Re	lative density	: No data availa	able
De	ensity	: 0.900 - 1.100	g/cm³
Relati	ve vapour density	: No data availa	able
Explo	sive properties	: Not explosive	
Oxidiz	zing properties	: The substance	e or mixture is not classified as oxidizing.
Molec	ular weight	: No data availa	able
	le characteristics rticle size	: Not applicable	3
STABI	LITY AND REACTIVI	ГҮ	
Possil tions Condi Incom	ical stability bility of hazardous rea tions to avoid patible materials dous decomposition	: Stable under r c- : Can react with : None known. : Oxidizing age	as a reactivity hazard. normal conditions. n strong oxidizing agents. nts decomposition products are known.
тохіс		ATION	
Inform expos	nation on likely routes sure	of : Inhalation Skin contact Ingestion Eye contact	
	toxicity		
Not cl Produ	assified based on ava	lable information.	
	oral toxicity	: Acute toxicity e Method: Calcu	estimate: > 2,000 mg/kg lation method
Acute	inhalation toxicity	: Acute toxicity e Exposure time: Test atmosphe Method: Calcu	re: dust/mist
<u>Comp</u>	oonents:		
	yl alcohol: oral toxicity	: LD50 (Rat): 1,6	620 mg/kg
Acute	oral toxicity	: LD50 (Rat): 1,6	620 mg/kg



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Acute	inhalation toxicity	:	LC50 (Rat): > 4.1 Exposure time: 4 Test atmosphere Method: OECD T	h
Atrop	oine Sulfate:			
Acute	oral toxicity	:	LD50 (Rat): 500 r	ng/kg
			LD50 (Mouse): 7	5 mg/kg
			LD50 (Rabbit): 60	00 mg/kg
			LD50 (Guinea pig	g): 1,100 mg/kg
Not c	corrosion/irritation lassified based on avail conents:	able	information.	
Benz	yl alcohol:			
Speci Metho Resu	bc	:	Rabbit OECD Test Guide No skin irritation	eline 404
	us eye damage/eye iri lassified based on avail			
Com	ponents:			
Benz	yl alcohol:			
Speci Resu Metho	lt	::	Rabbit Irritation to eyes, OECD Test Guide	reversing within 21 days eline 405

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Benzyl alcohol:

Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Test Type Exposure routes Species Method Result	: negative



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Germ	cell mutagenicity			
	assified based on ava	ilable	information.	
<u>Comp</u>	oonents:			
Benz	yl alcohol:			
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
Geno	toxicity in vivo	:	cytogenetic ass Species: Mouse	te: Intraperitoneal injection
I				
	bine Sulfate:			arial reverse mutation access (AMES)
Geno	toxicity in vitro		Result: negative	erial reverse mutation assay (AMES)
	cell mutagenicity - ssment	:	Weight of evider cell mutagen.	nce does not support classification as a g
Carci	nogenicity			
Not cl	assified based on ava	ilable	information.	
Com	oonents:			
	yl alcohol:			
Speci	es	:	Mouse	
Applic	cation Route sure time	:	Ingestion 103 weeks	
Metho		÷	OECD Test Gui	deline 451
Resu	t	:	negative	
Atrop	oine Sulfate:			
Speci	es	:	Rat	
Applic	cation Route sure time	:	Intraperitoneal in	njection
Expos NOAE	sure time	:	28 month(s)	N/
Resu		:	2.5 mg/kg bw/da negative	ıy
Carcii ment	nogenicity - Assess-	:	Weight of evider cinogen	nce does not support classification as a ca
II Donr	aductive toxicity			
Repro	oductive toxicity			



rsion	Revision Date: 2024/04/06		DS Number: 65465-00009	Date of last issue: 2023/09/30 Date of first issue: 2020/12/14
<u>Com</u>	oonents:			
Benz	yl alcohol:			
Effect	s on fertility	:	Species: Rat Application Rou Result: negative	
Effect ment	s on foetal develop-	:	Test Type: Emb Species: Mouse Application Rou Result: negative	ite: Ingestion
Atrop	ine Sulfate:			
Effect	s on fertility	:	Species: Rat, m Application Rou	ite: Ingestion y - Parent: LOAEL: 62.5 mg/kg body weigh
			Species: Rat, fe Application Rou	ite: Intraperitoneal injection y - Parent: LOAEL: 1 mg/kg body weight
Effect ment	s on foetal develop-	:	Species: Rat Application Rou Developmental	ility/early embryonic development ite: Intravenous injection Toxicity: LOAEL: 50 mg/kg body weight alities of the musculosketal system
Repro sessn	oductive toxicity - As- nent	:		of adverse effects on sexual function and on development, based on animal experime

Not classified based on available information.

Components:

Atropine Sulfate:

Assessment

: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Not classified based on available information.



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<u>Com</u>	ponents:		
Atrop	oine Sulfate:		
Expo	sure routes	: Inhalation	
Targe	et Organs ssment	: Eye, Central r	nervous system
Asses	ssment		duce significant health effects in animals at con- 50 ppmV/6h/d or less.
Repe	ated dose toxicity		
Com	ponents:		
	yl alcohol:		
Speci		: Rat	
NOA! Appli	=L cation Route	: 1.072 mg/l : inhalation (du	st/mist/fume)
Expo	sure time	: 28 Days	
Metho		: OECD Test G	uideline 412
Atrop	oine Sulfate:		
Speci		: Rabbit	
LOAE		: 59 mg/kg	
Applic	cation Route sure time	: Subcutaneous : 100 d	3
Targe	et Organs	: Central nervo	us system
Symp	otoms		respiratory depression
Speci		: Rat	
LOAE		: 0.5 mg/kg	
	cation Route sure time	: Inhalation : 21 d	
Targe	et Organs	: Eye	
Symp		: Dilatation of th	ne pupil
Speci		: Dog	
LOAE		: 0.5 mg/kg	
Applic	cation Route sure time	: Inhalation : 21 d	
	et Organs	: Eye	
Symp	otoms	: Dilatation of th	ne pupil
Aspir	ration toxicity		
-	lassified based on av	ailable information.	
	rience with human		
<u>Com</u>	ponents:		
Atrop	oine Sulfate:		
Gene	ral Information		s: Central nervous system
11		Symptoms: dr	ry mouth, Blurred vision, tachycardia, constipa-



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2 ECOLO	OGICAL INFORMATION		tion, central nervo delirium, mental c	ous system effects, restlessness, Fatigue, depression
Ecoto		•		
	oonents:			
	yl alcohol:			
	ty to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 460 mg/l 6 h
	ty to daphnia and other ic invertebrates	:	Exposure time: 48	nagna (Water flea)): 230 mg/l 8 h est Guideline 202
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudokin mg/l Exposure time: 72 Method: OECD T	
			NOEC (Pseudoki mg/l Exposure time: 72 Method: OECD T	
aquati ic toxi	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia i Exposure time: 2 Method: OECD T	
Atrop	ine Sulfate:			
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 356 mg/l 8 h
Persis	stence and degradabili	ity		
Comp	oonents:			
	yl alcohol: gradability	:	Result: Readily bi Biodegradation: Exposure time: 14	92 - 96 %
Bioac	cumulative potential			
	oonents:			
Benzy	yl alcohol: on coefficient: n-	:	log Pow: 1.05	



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Atrop Partiti	ol/water bine Sulfate: ion coefficient: n- ol/water	:	log Pow: 1.83	
Mobi	l ity in soil ata available			
	rdous to the ozone lay	yer		
	r adverse effects ata available			
13. DISPC	SAL CONSIDERATIO	NS		
Dispo	osal methods			
Waste	e from residues	:		ordance with local regulations.
Contaminated packaging			Empty containers dling site for recy	f waste into sewer. s should be taken to an approved waste han cling or disposal. pecified: Dispose of as unused product.
4. TRAN	SPORT INFORMATION	N		
• •				
	national Regulations			
UNR	ſDG		Not oppliaghle	
UNR UN ni	FDG umber	:	Not applicable	
UNR UN ni	FDG umber er shipping name	:	Not applicable	
UNR UN nu Prope Class Subsi	rDG umber er shipping name diary risk	:	Not applicable Not applicable Not applicable	
UNR UN nu Prope Class Subsi Packi	rDG umber er shipping name diary risk ng group	:	Not applicable Not applicable Not applicable Not applicable	
UNR UN nu Prope Class Subsi Packi Label	rDG umber er shipping name diary risk ng group s		Not applicable Not applicable Not applicable Not applicable Not applicable	
UNR UN nu Prope Class Subsi Packi Label Envire	rDG umber er shipping name diary risk ng group s onmentally hazardous		Not applicable Not applicable Not applicable Not applicable	
UNRT UN nu Prope Class Subsi Packi Label Enviro	rDG umber er shipping name diary risk ng group s onmentally hazardous -DGR		Not applicable Not applicable Not applicable Not applicable Not applicable no	
UNRT UN nu Prope Class Subsi Packi Label Envird IATA	rDG umber er shipping name diary risk ng group s onmentally hazardous -DGR		Not applicable Not applicable Not applicable Not applicable Not applicable	
UNR UN nu Prope Class Subsi Packi Label Enviro IATA UN/IE Prope Class	TDG umber er shipping name diary risk ng group s onmentally hazardous -DGR O No. er shipping name		Not applicable Not applicable Not applicable Not applicable no Not applicable Not applicable Not applicable	
UNR UN nu Prope Class Subsi Packi Label Enviro IATA UN/IE Prope Class Subsi	TDG umber er shipping name diary risk ng group s onmentally hazardous -DGR O No. er shipping name diary risk	······································	Not applicable Not applicable Not applicable Not applicable no Not applicable Not applicable Not applicable Not applicable Not applicable	
UNRT UN nu Prope Class Subsi Packi Label Enviro UN/IE Prope Class Subsi Packi	TDG umber er shipping name diary risk ng group s onmentally hazardous -DGR O No. er shipping name diary risk ng group		Not applicable Not applicable Not applicable Not applicable no Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	
UNR UN nu Prope Class Subsi Packi Label Enviro IATA UN/IE Prope Class Subsi Packi Label	TDG umber er shipping name diary risk ng group s onmentally hazardous -DGR 0 No. er shipping name diary risk ng group s ng instruction (cargo		Not applicable Not applicable Not applicable Not applicable no Not applicable Not applicable Not applicable Not applicable Not applicable	
UNRT UN nu Prope Class Subsi Packi Label Envird IATA UN/IE Prope Class Subsi Packi Label Packi aircra Packi	TDG umber er shipping name diary risk ng group s onmentally hazardous -DGR 0 No. er shipping name diary risk ng group s ng instruction (cargo		Not applicable Not applicable Not applicable Not applicable no Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	
UNRT UN nu Prope Class Subsi Packi Label Enviro IATA UN/IE Prope Class Subsi Packi Label Packi aircra Packi ger ai	TDG umber er shipping name diary risk ng group s onmentally hazardous -DGR o No. er shipping name diary risk ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) -Code		Not applicable Not applicable Not applicable Not applicable Not applicable no Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	
UNRT UN nu Prope Class Subsi Packi Label Envire UN/IE Prope Class Subsi Packi Label Packi aircra Packi ger ai UN nu	TDG umber er shipping name diary risk ng group s onmentally hazardous -DGR O No. er shipping name diary risk ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) G-Code umber		Not applicable Not applicable Not applicable Not applicable Not applicable no Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	
UNRT UN nu Prope Class Subsi Packi Label Enviro IATA UN/IE Prope Class Subsi Packi Label Packi aircra Packi ger ai UN nu Prope	FDG umber er shipping name diary risk ng group s onmentally hazardous -DGR O No. er shipping name diary risk ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) -Code umber er shipping name		Not applicable Not applicable Not applicable Not applicable Not applicable no Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	
UNRT UN nu Prope Class Subsi Packi Label Enviro IATA UN/IE Prope Class Subsi Packi aircra Packi aircra Packi ger ai UN nu Prope Class	FDG umber er shipping name diary risk ng group s onmentally hazardous -DGR O No. er shipping name diary risk ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) -Code umber er shipping name		Not applicable Not applicable Not applicable Not applicable Not applicable no Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	



Remarks

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Packing group	: Not applicable
Labels	: Not applicable
EmS Code	: Not applicable
Marine pollutant	: Not applicable

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

Not applicable for product as supplied.

National Regulations

Refer to section 15 for specific national regulation.

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicable to dangerous materials / designated flammables.

Chemical Substance Control Law

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

Industrial Safety and Health Law

Harmful Substances Prohibited from Manufacture

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Substances Prevented From Impairment of Health

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

Substances Subject to be Notified Names

Article 57-2 (Enforcement Order Table 9)

Chemical name	Concentration (%)	Remarks
Benzyl alcohol	>=0.9091 - <=1.1111	-

Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)

Chemical name

benzyl alcohol





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tions		s (Article 577-2 of the	Occupational Health and Safety Regula-
	nance on Preventior pplicable	n of Hazards Due to Sp	ecified Chemical Substances
	nance on Preventior pplicable	n of Lead Poisoning	
	nance on Preventior pplicable	n of Tetraalkyl Lead Po	isoning
	nance on Preventior	n of Organic Solvent P	oisoning
Subs	rcement Order of the tances) pplicable	e Industrial Safety and	l Health Law - Attached table 1 (Dangerou
Poisc		us Substances Contro	bl Law
viron			of Specific Chemical Substances in the E the Management Thereof
High	Pressure Gas Safet	y Act	
-	psive Control Law		
	el Safety Law egulated as a danger	ous good	
	ion Law egulated as a danger	ous good	
Marin	ne Pollution and Sea	a Disaster Prevention e	etc Law
Bulk t	transportation	: Noxious liquid s	substance(Category Z)
Pack	transportation	: Not classified a	s marine pollutant
Narco Not a	pplicable	aw Material (Export / In	nport Permission) xport / Import permission)
	pplicable		
	e Disposal and Pub trial waste	lic Cleansing Law	
The c DSL	components of this	product are reported in : not determined	n the following inventories:



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AICS		: not determined	
IECSC		: not determined	

16. OTHER INFORMATION

In this SDS, if the concentration of substances subject to notification under the Industrial Safety and Health Law is indicated as a range, it includes cases where it is a trade secret.

Further information

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

Date format	:	yyyy/mm/dd
Full text of other abbreviation	ons	
JP OEL JSOH	:	Japan. The Japan Society for Occupational Health. Recommendation of Occupational Exposure Limits
JP OEL JSOH / OEL-C	:	Occupational Exposure Limit-Ceiling

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 - Trans-



Atropine Sulfate Formulation

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portation 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 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.

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