

Alvimopan Formulation

Versio 2.2	n	Revision Date: 28.09.2024		S Number: 7601-00018	Date of last issue: 30.09.2023 Date of first issue: 02.05.2016		
SECTI	SECTION 1. IDENTIFICATION						
Pi	Product name		:	Alvimopan Form	Alvimopan Formulation		
М	anufa	acturer or supplier's	deta	ils			
C	ompa	ny	:	MSD	MSD		
Ad	Address		•	855 Leandro N. Alem St., 8 Floor Buenos Aires, Argentina C1001AFB			
Te	Telephone		:	908-740-4000			
Er	Emergency telephone		:	1-908-423-6000			
E	E-mail address		:	EHSDATASTEWARD@msd.com			
R	ecom	mended use of the c	hem	ical and restriction	ons on use		
		mended use tions on use	:	Pharmaceutical Not applicable			

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

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

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Alvimopan	170098-38-1	>= 1 -< 5

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.



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		Get medical a	attention if symptoms occur.			
In c	ase of skin contact	: Wash with wa	: Wash with water and soap. Get medical attention if symptoms occur.			
In c	ase of eye contact	: If in eyes, rin	se well with water. attention if irritation develops and persists.			
lf sv	vallowed	: If swallowed, Get medical a	DO NOT induce vomiting. attention if symptoms occur. thoroughly with water.			
	st important symptoms I effects, both acute and		dust can cause mechanical irritation or drying of			
Pro	ayed tection of first-aiders es to physician	: No special pr	with the eyes can lead to mechanical irritation. ecautions are necessary for first aid responders. matically 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	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.



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	ds and materials for nment and cleaning up	:	container for disp Avoid dispersal o with compressed Dust deposits sho surfaces, as these released into the Local or national disposal of this m employed in the o determine which Sections 13 and	f dust in the air (i.e., clearing dust surfaces

SECTION 7. HANDLING AND STORAGE

Technical measures	Static electricity may accumulate and ignite suspender causing an explosion. Provide adequate precautions, such as electrical grou and bonding, or inert atmospheres.	
Local/Total ventilation	Use only with adequate ventilation.	
Advice on safe handling	Do not breathe dust.	
	Handle in accordance with good industrial hygiene and	
	practice, based on the results of the workplace exposit assessment	lre
	Minimize dust generation and accumulation.	
	Keep container closed when not in use.	
	Keep away from heat and sources of ignition.	
	Take precautionary measures against static discharge	es.
	Take care to prevent spills, waste and minimize releas environment.	se to the
Conditions for safe storage	Keep in properly labeled containers.	
5	Store in accordance with the particular national regula	tions.
Materials to avoid	Do not store with the following product types: Strong oxidizing agents	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Alvimopan	170098-38-1	TWA	10 µg/m³	Internal
		Wipe limit	100 µg/100 cm²	Internal

Engineering measures	:	Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Apply measures to prevent dust explosions. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are
		dust collectors, vessels, and processing equipment) are



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		•	n a manner to prevent the escape of dust into the (i.e., there is no leakage from the equipment).		
Per	sonal protective equip	nent			
Respiratory protection		exposure a recommen	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.		
	Filter type nd protection	: Particulate	s type		
	Material	: Chemical-ı	resistant gloves		
	Remarks		ged or repeated contact use protective gloves. Is before breaks and at the end of workday.		
Eye	e protection		ollowing personal protective equipment:		
	n and body protection jiene measures	: If exposure eye flushin working pla When usin	d be washed after contact. e to chemical is likely during typical use, provide g systems and safety showers close to the ace. g do not eat, drink or smoke. aminated clothing before re-use.		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, handling or other means.
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower	:	No data available



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fla	ammability limit			
Va	Vapor pressure		No data available	9
R	elative vapor density	:	No data available	9
D	ensity	:	No data available	9
So	blubility(ies) Water solubility	:	No data available	
	artition coefficient: n- ctanol/water	:	No data available	9
	utoignition temperature	:	No data available	9
D	ecomposition temperature	:	No data available	9
Vi	scosity Viscosity, dynamic	:	No data available	9
	Viscosity, kinematic	:	No data available	9
E	plosive properties	:	Not explosive	
0	xidizing properties	:	The substance o	r mixture is not classified as oxidizing.
М	olecular weight	:	No data available	9
	article characteristics article size	:	No data available	9

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions		Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

Acute toxicity

Not classified based on available information.



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Prod	uct:			
	e oral toxicity	:	Acute toxicity e Method: Calcul	stimate: > 5.000 mg/kg ation method
Acute	e dermal toxicity	:	Acute toxicity e Method: Calcul	stimate: > 5.000 mg/kg ation method
<u>Com</u>	ponents:			
Alvin	nopan:			
	e oral toxicity	:	LD50 (Rat): > 5	00 mg/kg
			LD50 (Mouse):	> 4.000 mg/kg
Acute	e dermal toxicity	:	LD50 (Mouse):	> 2.000 mg/kg
	e toxicity (other routes of nistration)	:	Application Rou	0 mg/kg ite: Intravenous gnificant adverse effects were reporte
Skin	corrosion/irritation			
Not c	lassified based on availa	ble	information.	
<u>Com</u>	ponents:			
Alvin	nopan:			
Spec		:	Rabbit	
Resu	lt	:	Mild skin irritation	on
Seric	ous eye damage/eye irri	tati	on	
Not c	lassified based on availa	ble	information.	
<u>Com</u>	ponents:			
Alvin	nopan:			
Spec		:	Rabbit	
Resu	lt	:	Mild eye irritatio	ט ר ו
Resp	piratory or skin sensitiz	atio	'n	
•••••	sensitization			
		hla	information.	
Not c	lassified based on availa	DIC		
Resp	lassified based on availa iratory sensitization lassified based on availa		information.	
Resp Not c	piratory sensitization		information.	
Resp Not c <u>Com</u>	piratory sensitization classified based on availa ponents:		information.	
Resp Not c <u>Com</u>	piratory sensitization classified based on availa ponents: nopan:		Maximization T	est
Resp Not c <u>Com</u> Alvin Test	piratory sensitization classified based on availa ponents: nopan: Type es of exposure			est



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Germ	cell mutagenicity		
Not cl	assified based on ava	ailable information.	
Com	oonents:		
	iopan:		
Geno	toxicity in vitro	: Test Type: Bac Result: negativ	cterial reverse mutation assay (AMES) e
		Test Type: Chr Result: negativ	omosome aberration test in vitro e
			itro mammalian cell gene mutation test nouse lymphoma cells e
Geno	toxicity in vivo		ute: Oral
Not cl	nogenicity assified based on ava ponents:	ailable information.	
Not cl <u>Comp</u> Alvim	assified based on ava ponents: popan:		
Not cl <u>Comp</u> Alvim Speci	assified based on ava ponents: popan: es	: Rat	
Not cl <u>Comp</u> Alvim Speci Applic	assified based on ava <u>ponents:</u> topan: es cation Route	: Rat : Oral	
Not cl <u>Comp</u> Alvim Speci Applic	assified based on ava <u>ponents:</u> es cation Route sure time	: Rat : Oral : 2 Years	y weight
Not cl <u>Comp</u> Alvim Speci Applic Expos	assified based on ava conents: copan: es cation Route sure time EL	: Rat : Oral	y weight
Not cl <u>Comp</u> Alvim Speci Applic Expos NOAE Resul	assified based on ava ponents: topan: es cation Route sure time EL t	: Rat : Oral : 2 Years : 500 mg/kg bod : negative	y weight
Not cl Comp Alvim Speci Applic Expos NOAE Resul Speci	assified based on ava ponents: es cation Route sure time EL t es	: Rat : Oral : 2 Years : 500 mg/kg bod	y weight
Not cl Comp Alvim Speci Applic Expos NOAE Resul Speci Applic Expos	assified based on ava conents: copan: es cation Route sure time EL t es cation Route sure time	: Rat : Oral : 2 Years : 500 mg/kg bod : negative : Mouse : Oral : 2 Years	
Not cl Comp Alvim Speci Applic Expos NOAE Resul Speci Applic Expos LOAE	assified based on ava conents: copan: es cation Route sure time EL t es cation Route sure time sure time EL	: Rat : Oral : 2 Years : 500 mg/kg bod : negative : Mouse : Oral : 2 Years : 4.000 mg/kg bo	
Not cl Comp Alvim Speci Applic Expos NOAE Resul Speci Applic Expos LOAE Resul	assified based on ava conents: copan: es cation Route sure time EL t es cation Route sure time EL t t	 Rat Oral 2 Years 500 mg/kg bod negative Mouse Oral 2 Years 4.000 mg/kg bod positive 	
Not cl Comp Alvim Speci Applic Expos NOAE Resul Speci Applic Expos LOAE Resul Targe	assified based on ava conents: copan: es cation Route sure time EL t es cation Route sure time EL t t t t t t t t t t t t t	 Rat Oral 2 Years 500 mg/kg bod negative Mouse Oral 2 Years 4.000 mg/kg bod positive Bone, Skin 	ody weight
Not cl Comp Alvim Speci Applic Expos NOAE Resul Speci Applic Expos LOAE Resul	assified based on ava conents: copan: es cation Route sure time EL t es cation Route sure time EL t t t t t t t t t t t t t	 Rat Oral 2 Years 500 mg/kg bod negative Mouse Oral 2 Years 4.000 mg/kg bod positive Bone, Skin Benign and matical 	ody weight Ilignant tumor(s)
Not cl Comp Alvim Speci Applic Expos NOAE Resul Speci Applic Expos LOAE Resul Targe	assified based on ava conents: copan: es cation Route sure time EL t es cation Route sure time EL t t t t t t t t t t t t t	 Rat Oral 2 Years 500 mg/kg bod negative Mouse Oral 2 Years 4.000 mg/kg bod positive Bone, Skin Benign and ma Adverse effects 	ody weight
Not cl Comp Alvim Speci Applic Expos NOAE Resul Speci Applic Expos LOAE Resul Targe Rema	assified based on ava conents: copan: es cation Route sure time EL t es cation Route sure time EL t t t t t t t t t t t t t	 Rat Oral 2 Years 500 mg/kg bod negative Mouse Oral 2 Years 4.000 mg/kg bod positive Bone, Skin Benign and ma Adverse effects These is no ev 	ody weight lignant tumor(s) s were observed in females only.
Not cl Comp Alvim Speci Applic Expos NOAE Resul Speci Applic Expos LOAE Resul Targe Rema	assified based on avaination and a solution and a s	 Rat Oral 2 Years 500 mg/kg bod negative Mouse Oral 2 Years 4.000 mg/kg bod positive Bone, Skin Benign and ma Adverse effects These is no ev mans. 	ody weight lignant tumor(s) s were observed in females only.
Not cl Comp Alvim Speci Applic Expos NOAE Resul Speci Applic Expos LOAE Resul Targe Rema	assified based on avaination and a solution and a s	 Rat Oral 2 Years 500 mg/kg bod negative Mouse Oral 2 Years 4.000 mg/kg bod positive Bone, Skin Benign and ma Adverse effects These is no ev mans. 	ody weight lignant tumor(s) s were observed in females only.
Not cl Comp Alvim Speci Applic Expos NOAE Resul Speci Applic Expos LOAE Resul Targe Rema Repro Not cl Comp	assified based on avai conents: copan: es cation Route sure time EL t es cation Route sure time EL t t t Organs irks coluctive toxicity assified based on avai	 Rat Oral 2 Years 500 mg/kg bod negative Mouse Oral 2 Years 4.000 mg/kg bod positive Bone, Skin Benign and ma Adverse effects These is no ev mans. 	ody weight lignant tumor(s) s were observed in females only.
Not cl Comp Alvim Speci Applic Expos NOAE Resul Speci Applic Expos LOAE Resul Targe Rema Repro Not cl Comp Alvim	assified based on avaination and a some of the second seco	 Rat Oral 2 Years 500 mg/kg bod negative Mouse Oral 2 Years 4.000 mg/kg bod positive Bone, Skin Benign and ma Adverse effects These is no ev mans. 	ody weight lignant tumor(s) s were observed in females only.

Application Route: Intravenous injection Fertility: NOAEL: 5 mg/kg body weight



Ve 2.2	rsion	Revision Date: 28.09.2024	98 Number: 7601-00018	Date of last issue: 30.09.2023 Date of first issue: 02.05.2016
	2		7601-00018 Result: No effects Test Type: Fertilit Species: Rat Application Route Fertility: NOAEL: Result: No effects Test Type: Fertilit Species: Rabbit Application Route Fertility: NOAEL: Result: No effects Test Type: Embry Species: Rat Application Route Developmental To Result: Embryo-fe Test Type: Embry Species: Rat Application Route Developmental To Result: Embryo-fe	Date of first issue: 02.05.2016 a on fertility. y/early embryonic development Coral 200 mg/kg body weight a on fertility. y/early embryonic development Intravenous 15 mg/kg body weight a on fertility. yo-fetal development Coral Discity: NOAEL: 100 mg/kg body weight co-fetal development Coral Discity: LOAEL: 200 mg/kg body weight etal toxicity. yo-fetal development Coral Discity: LOAEL: 200 mg/kg body weight etal toxicity. yo-fetal development Coral Discity: NOAEL: 10 mg/kg body weight co-fetal development Coral Discity: NOAEL: 10 mg/kg body weight Co-fetal development Co-fetal deve
			Test Type: Embry Species: Rabbit Application Route Developmental To	cant adverse effects were reported ro-fetal development :: Intravenous injection oxicity: NOAEL: 15 mg/kg body weight cant adverse effects were reported
	STOT-	single exposure		

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Alvimopan:

Species NOAEL Application Route Exposure time Remarks	-	Mouse 1000 mg/kg Oral 13 Weeks No significant adverse effects were reported
Species	:	Dog



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Expos Rema Speci NOAE Applia Expos Rema Speci NOAE Applia Expos	cation Route sure time arks EL cation Route sure time arks EL cation Route sure time	: Rat : 500 mg/kg : Oral : 1 y : No significa : Dog : 2 mg/kg : Intravenous : 1 Months	nt adverse effects were reported nt adverse effects were reported
Not c Expe <u>Com</u>	ration toxicity lassified based on ava rience with human e ponents: nopan:	ilable information.	nt adverse effects were reported

Ingestion

: Symptoms: stomach discomfort, Gastrointestinal disturbance, Nausea, Vomiting, Abdominal pain

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
Alvimopan:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 17 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility.
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 17 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: No toxicity at the limit of solubility.
Toxicity to algae/aquatic plants	:	EC50 (Scenedesmus subspicatus): > 17 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility.
		NOEC (Scenedesmus subspicatus): 17 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility.



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	Toxicity to microorganisms		:	EC50: > 920 mg/l Exposure time: 3 Test Type: Respin Method: OECD T	h ration inhibition
				NOEC: 920 mg/l Exposure time: 3 Test Type: Respin Method: OECD T	ration inhibition
	Persis	tence and degradabil	lity		
	Comp	onents:			
	Alvimo	•			
	Biodeg	jradability	:	Result: Not readil Biodegradation: Exposure time: 28	4 %
	Bioaco	cumulative potential			
	Comp	onents:			
	Alvimo Partitio octano	n coefficient: n-	:	log Pow: 0,52	
		ty in soil a available			
		adverse effects a available			
SEC	CTION 1	3. DISPOSAL CONSI	DEF	RATIONS	
	Dispos	sal 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
	handling site for recycling or disposal.
	If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good



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	sport in bulk accord	-	RPOL 73/78 and the IBC Code
Spec	ial precautions for u		
Not a	pplicable		
SECTION	15. REGULATORY	INFORMATION	
mixtu	ntina. Carcinogenic S	onmental regulations/ ubstances and Agents	legislation specific for the substance or : Not applicable
	rol of precursors and aration of drugs.	essential chemicals for	the : Not applicable
The i	ingredients of this p	roduct are reported ir	n the following inventories:
AICS	;	: not determined	ť
DSL		: not determined	t
IECS	C	: not determined	t

SECTION 16. OTHER INFORMATION

Revision Date	: 28.09.2024
Date format	: dd.mm.yyyy

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/

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



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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 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.

AR / Z8