



Vers 3.1	sion	Revision Date: 2023/09/30		S Number: 246-00017	Date of last issue: 2023/04/04 Date of first issue: 2016/05/02		
1. PI	1. PRODUCT AND COMPANY IDENTIFICATION						
	Produc	t name	:	Imidocarb Injection	on Formulation		
	Manufa	acturer or supplier's d	letai	ls			
	Company		:	MSD			
	Address		:	126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065			
	Telephone		:	908-740-4000			
	Emerge	ency telephone number	·:	1-908-423-6000			
	E-mail address		:	EHSDATASTEWARD@msd.com			
	Recommended use of the cher			ical and restrictio	ns on use		
		mended use tions on use	:	Veterinary produce Not applicable	ct		

#### 2. HAZARDS IDENTIFICATION

GHS Classification Reproductive toxicity	:	Category 2
Specific target organ toxicity - single exposure (Oral)	:	Category 1 (Central nervous system)
Specific target organ toxicity - repeated exposure (Oral)	:	Category 1 (Liver, Kidney)
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H361d Suspected of damaging the unborn child. H370 Causes damage to organs (Central nervous system) if swallowed. H372 Causes damage to organs (Liver, Kidney) through pro- longed or repeated exposure if swallowed.
Precautionary statements	:	Prevention:





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		P202 Do not h and understoc P260 Do not b P264 Wash sh P270 Do not e	oreathe mist or vapours. kin thoroughly after handling. eat, drink or smoke when using this product. otective gloves/ protective clothing/ eye protec-	
		<b>Response:</b> P308 + P311 IF exposed or concerned: Call a POISC CENTER/ doctor.		
		<b>Storage:</b> P405 Store lo	cked up.	
	of contents/ container to an approved waste			

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
imidocarb	27885-92-3	>= 10 -< 30
Propionic acid	79-09-4	>= 3 -< 5

#### 4. FIRST AID MEASURES

General advice	<ul> <li>In the case of accident or if you feel unwell, seek media vice immediately.</li> <li>When symptoms persist or in all cases of doubt seek m advice.</li> </ul>	
If inhaled	: If inhaled, remove to fresh air. Get medical attention.	
In case of skin contact	<ul> <li>In case of contact, immediately flush skin with soap and of water.</li> <li>Remove contaminated clothing and shoes.</li> <li>Get medical attention.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul>	1 plenty
In case of eye contact	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.	
If swallowed	<ul> <li>If swallowed, DO NOT induce vomiting.</li> <li>Get medical attention.</li> <li>Rinse mouth thoroughly with water.</li> </ul>	



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and e delay Prote	important symptoms offects, both acute and ed ction of first-aiders s to physician	<ul> <li>Suspected of Causes dama Causes dama exposure if sw</li> <li>First Aid respo and use the re when the pote</li> </ul>	ything by mouth to an unconscious person. damaging the unborn child. ge to organs if swallowed. ge to organs through prolonged or repeated vallowed. onders should pay attention to self-protection, ecommended personal protective equipment ential for exposure exists (see section 8). natically and supportively.			
	GHTING MEASURES					
Suita	ble extinguishing media	: Water spray Alcohol-resist Carbon dioxid Dry chemical				
media Speci	ific hazards during fire-	: None known.	ombustion products may be a hazard to health.			
fightir Haza ucts	rdous combustion prod-	: Carbon oxides	6			
Spec ods	ific extinguishing meth-	cumstances a Use water spr	hing measures that are appropriate to local cir- nd the surrounding environment. ay to cool unopened containers. maged containers from fire area if it is safe to de			
	ial protective equipment efighters	: In the event of	Evacuate area. In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.			
. ACCIDI	ENTAL RELEASE MEA	SURES				
tive e	onal precautions, protec- quipment and emer- y procedures	Follow safe ha	protective equipment. andling advice (see section 7) and personal pro- nent recommendations (see section 8).			
Envir	onmental precautions	Prevent furthe Prevent sprea barriers). Retain and dis	to the environment. er leakage or spillage if safe to do so. Iding over a wide area (e.g. by containment or o spose of contaminated wash water. ies should be advised if significant spillages Itained.			
	ods and materials for inment and cleaning up	For large spill ment to keep be pumped, s Clean up rema bent.	inert absorbent material. s, provide dyking or other appropriate contain- material from spreading. If dyked material can tore recovered material in appropriate container aining materials from spill with suitable absor- nal regulations may apply to releases and dis-			



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		employed in the c mine which regula Sections 13 and 1	rial, as well as those materials and items eanup of releases. You will need to deter- tions are applicable. 5 of this SDS provide information regarding tional requirements.	
7. HANDLIN	IG AND STORAGE			
Local/T	cal measures otal ventilation on safe handling	CONTROLS/PER Use only with ade Do not breathe mi Do not swallow. Avoid contact with Avoid prolonged of Wash skin thoroug Handle in accorda practice, based or sessment Do not eat, drink of	st or vapours.	
	ons for safe storage Is to avoid	: Keep in properly la Store locked up. Store in accordance	abelled containers. ce with the particular national regulations. he following product types: gents	

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
imidocarb	27885-92-3	TŴA	40 µg/m3 (OEB 3)	Internal
		Wipe limit	400 µg/100 cm <sup>2</sup>	Internal
Propionic acid	79-09-4	NAB	10 ppm 30 mg/m3	ID OEL
		TWA	10 ppm	ACGIH

Engineering measures

 Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless quick connections).
 All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.
 Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con-



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			ment devices) imize open ha			
Perso	onal protective equipn	nent				
Respiratory protection		: If a sure omi	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			
	protection	. 001				
Ma	Material		Chemical-resistant gloves			
Remarks Eye protection		: We If th mis We pote	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 á	and body protection	Ado tasl pos Use	ditional body ga < being perforn able suits) to a	aboratory coat. arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. legowning techniques to remove potentially hing.		
Hygie	ene measures	: If exe ing Wh Wa The eng app indu	xposure to che flushing syste place. en using do no sh contaminate effective oper ineering contro propriate degov	emical is likely during typical use, provide ems and safety showers close to the work- ot eat, drink or smoke. ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, whing and decontamination procedures, monitoring, medical surveillance and the		

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	clear
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	4.5
Melting point/freezing point	:	100 °C
Initial boiling point and boiling range	:	No data available

### SAFETY DATA SHEET



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	Flash p	oint	:	No data available	)
	Evaporation rate		:	No data available	)
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	9
		explosion limit / Upper bility limit	:	No data available	)
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available	2
	Relative	e vapour density	:	No data available	9
	Density	,	:	No data available	9
	Solubili Wat	ty(ies) er solubility	:	soluble	
		n coefficient: n-	:	No data available	9
	octanol Auto-ig	/water nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty osity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	)
	Particle	size	:	No data available	

### **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	:	None known. Oxidizing agents No hazardous decomposition products are known.



rsion	Revision Date: 2023/09/30		0S Number: 2246-00017	Date of last issue: 2023/04/04 Date of first issue: 2016/05/02
produ	Cts		N	
	nation on likely routes of		Inhalation Skin contact Ingestion Eye contact	
	e toxicity			
Not cl Produ	lassified based on availa	ble	information.	
	oral toxicity	:	Acute toxicity es Method: Calcula	timate: > 2,000 mg/kg tion method
<u>Comp</u>	oonents:			
imido	ocarb:			
Acute	oral toxicity	:	LD50 (Rat): 1,2 <sup>2</sup>	l6 - 1,652 mg/kg
			LD50 (Mouse):	544 - 702 mg/kg
			LD50 (Rabbit): 3	317 mg/kg
Acute	inhalation toxicity	:	Remarks: No da	ta available
Acute	e dermal toxicity	:	Remarks: No da	ta available
	toxicity (other routes of histration)	:	LD50 (Rat): 32.7 Application Rou	
			LD50 (Mouse): 2 Application Rou	
Propi	onic acid:			
Acute	inhalation toxicity	:	LC50 (Rat): > 20 Exposure time: 4 Test atmosphere	4 h ັ
Acute	e dermal toxicity	:	LD50 (Rat, fema	ale): 3,235 mg/kg
	corrosion/irritation lassified based on availa	ble	information.	
Com	oonents:			
<b>imido</b> Rema	ocarb:	:	No data availabl	•

#### Propionic acid:





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<b>.</b> .		_		
Speci Resul			abbit orrosive afte	r 3 minutes to 1 hour of exposure
Serio	us eye damage/eye	irritation		
Not cl	assified based on ava	ailable inf	ormation.	
Comp	oonents:			
imido				
Rema	ırks	: N	o data availa	able
Propi	onic acid:			
Speci			abbit	
Resul	t	: Iri	eversible ef	fects on the eye
Respi	iratory or skin sensi	tisation		
Skin s	sensitisation			
Not cl	assified based on ava	ailable inf	ormation.	
-	iratory sensitisation assified based on ava		ormation	
	oonents:		Simation.	
imido				
Rema		: N	o data availa	able
Proni	onic acid:			
Test T		: M	aximisation	Test
Expos	sure routes		kin contact	
Speci Resul			uinea pig egative	
Rema				a from similar materials
Germ	cell mutagenicity			
	assified based on ava	ailable inf	ormation.	
<u>Comp</u>	oonents:			
imido	carb:			
Genot	toxicity in vitro		est Type: Ba esult: negati	cterial reverse mutation assay (AMES) ve
			est Type: In esult: negati	vitro mammalian cell gene mutation tea ve
		Т	est Type: Ch	romosome aberration test in vitro



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Genotoxicity in vivo		cytogenetic Species: R	at Route: Oral
		cytogenetic Species: M	ouse Route: Oral
Proni	onic acid:		
•	toxicity in vitro		Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 pative
		Test Type: malian cells Result: neg	-
Genot	toxicity in vivo	cytogenetic Species: H	amster Route: Intraperitoneal injection
	nogenicity		
	assified based on av	ailable information.	
	oonents:		
Expos LOAE Resul	es cation Route sure time L t t Organs	: negative : Mammary	body weight
Propi	onic acid:		
Speci		: Rat	
	ation Route	: Ingestion : 2 Years	
Eve	sure lime	. Zrears	

Suspected of damaging the unborn child.



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Comp	oonents:		
imido	carb.		
	s on fertility	Species: Ra Application Fertility: LO Result: Adv Test Type: <sup>2</sup> Species: Ra Application	Route: Oral AEL: 135 mg/kg body weight erse neonatal effects. Two-generation reproduction toxicity study at
Effect	s on foetal develop-	Species: Ra Application Developme Result: Effe Test Type: Species: Ra Application Developme Test Type: Species: Ra Application Developme	Route: Oral ntal Toxicity: LOAEL: 76 mg/kg body weight cts on foetal development, No teratogenic effec Embryo-foetal development at Route: Oral ntal Toxicity: NOAEL: 19 mg/kg body weight Embryo-foetal development abbit
Repro sessn	oductive toxicity - As- nent		nce of adverse effects on development, based
Dron:	onic acid:		
-	onic acid: s on foetal develop-	Species: Ra Application Result: neg	Route: Ingestion
	- single exposure es damage to organs ((	Central nervous sy	/stem) if swallowed.
<u>Comp</u>	ponents:		
imido	ocarb:		
Targe	et Organs	: Central ner	vous system

Target Organs	:	Central nervous system
Assessment	:	Causes damage to organs.



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Propi	onic acid:		
Asses	ssment	: May cause r	espiratory irritation.
	- repeated exposu		
		(Liver, Kidney) throu	ugh prolonged or repeated exposure if swallowe
<u>Com</u>	ponents:		
imido	ocarb:		
	et Organs ssment	: Liver, Kidney : Causes dam exposure.	/ age to organs through prolonged or repeated
Propi	onic acid:		
Asses	ssment		nt health effects observed in animals at concent mg/kg bw or less.
Repe	ated dose toxicity		
<u>Com</u>	oonents:		
imido	ocarb:		
Speci		: Rat	
LOAE	:L cation Route	: 125 mg/kg : Oral	
	sure time	: 90 Days	
	et Organs	: Liver	
Speci	es	: Rat	
NOA		: 76 mg/kg	
LOAE	:L cation Route	: 415 mg/kg : Oral	
	sure time	: 90 Days	
	et Organs	: Liver	
Speci		: Dog	
LOAE		: 5 mg/kg	
	cation Route	: Oral	
	sure time et Organs	: 90 Days : Liver, Kidney	1
Symp			, hing, Salivation, recumbency, ataxia, splayed le
Speci		: Rat	
NOAE LOAE		: 15 mg/kg	
	cation Route	: 60 mg/kg : Oral	
	sure time	: 104 Weeks	
	et Organs	: Liver, Kidney	/, Blood
Speci		: Monkey	
NOA	=L	: 5 mg/kg	



ersion 1	Revision Date: 2023/09/30	SDS Number: 632246-00017	Date of last issue: 2023/04/04 Date of first issue: 2016/05/02
	cation Route sure time ırks	: Oral : 30 Days : No significant	adverse effects were reported
Propi	onic acid:		
	EL cation Route sure time	: Dog : 733.4 mg/kg : Ingestion : 90 Days : OECD Test G	uideline 409
		: Mouse, female : 136.9 mg/kg : Skin contact : 90 Days	3
•	ation toxicity assified based on availa	able information.	
Expe	rience with human exp	osure	
Comp	oonents:		
<b>imido</b> Inhala		Symptoms: Sa mation, ataxia	: Central nervous system Ilivation, muscle twitching, Tremors, Lachry- , lethargy ed on Animal Evidence
. ECOLO	OGICAL INFORMATIO	N	
Ecoto	oxicity		
<u>Comp</u>	oonents:		
Propi	onic acid:		
Toxici	ity to fish	Exposure time Method: DIN 3	
	ty to daphnia and other ic invertebrates	Exposure time Method: Direc	a magna (Water flea)): > 100 mg/l : 48 h tive 67/548/EEC, Annex V, C.2. ed on data from similar materials
Toxici plants	ity to algae/aquatic	mg/l Exposure time Method: OECI	odesmus subspicatus (green algae)): > 100 : 72 h D Test Guideline 201 ed on data from similar materials





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Toxic	ity to microorganisms	:	EC10 (Pseudom Exposure time: 1 Method: DIN 38			
Pers	istence and degradabil	lity				
<u>Com</u>	ponents:					
	<b>ionic acid:</b> egradability	:	Result: Readily b Biodegradation: Exposure time: 3	74 %		
Bioa	ccumulative potential					
<u>Com</u>	ponents:					
imide	ocarb:					
	ion coefficient: n- nol/water	:	log Pow: 3.88			
Partit	ionic acid: ion coefficient: n- iol/water	:	log Pow: 0.33			
	<b>lity in soil</b> ata available					
	<b>r adverse effects</b> ata available					
13. DISPO	SAL CONSIDERATIO	٧S				
Dien	osal methods					
-	e from residues	:	Do not dispose c	f waste into sewer.		
Conta	Contaminated packaging :		Dispose of in accordance with local regulations. Empty containers should be taken to an approved wast dling site for recycling or disposal. If not otherwise specified: Dispose of as unused produc			
14. TRAN	SPORT INFORMATION	l				
Inter	national Regulations					
UNR <sup>.</sup> UN n	<b>TDG</b> umber		Not applicable			

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



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ΙΑΤΑ	A-DGR			
	D No.	:	Not applicable	
Prop	per shipping name	:	Not applicable	
Clas	-	:	Not applicable	
	sidiary risk	:	Not applicable	
	king group	:	Not applicable	
Labe		:	Not applicable	
	king instruction (cargo	:	Not applicable	
aircr	king instruction (passen-		Not applicable	
	aircraft)	•		
0	,			
	G-Code		<b>N I I I I I I I I I I</b>	
	number	:	Not applicable	
•	per shipping name	÷	Not applicable	
Clas	-	÷	Not applicable	
	sidiary risk king group	:	Not applicable Not applicable	
Labe		:	Not applicable	
	S Code	:	Not applicable	
-	ne pollutant	:	Not applicable	
		n to		POL 73/78 and the IBC Code
		-		
INOT	applicable for product as	sup	plied.	

Special precautions for user

Not applicable

#### **15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered	:	Not applicable
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#### Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use	:	Not applicable
Prohibited substances	:	Not applicable
Restricted substances	:	Not applicable

# Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials





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Type of hazardous materials subject to distribution and : Not applicable control, Annex I Type of hazardous materials subject to distribution and : Not applicable control, Annex II							
The components of this product are reported in the following inventories: AICS : not determined							
DSL	DSL		not determined				
IECS	IECSC		not determined				
16. OTHER INFORMATION							
Revi	Revision Date		2023/09/30				
Furt	her information						
com	Sources of key data used to compile the Safety Data Sheet		Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/				
Date	Date format		yyyy/mm/dd				
Full text of other abbreviations							
	ACGIH ID OEL		USA. ACGIH Threshold Limit Values (TLV) Indonesia. Occupational Exposure Limits				
ACGIH / TWA ID OEL / NAB		:	8-hour, time-weighted average Long term exposure limit				

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

#### SAFETY DATA SHEET



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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.

ID / EN