

Version 2.4	Revision Date: 30.09.2023	-	DS Num 677536-		Date of last issue: 04.04.2023 Date of first issue: 15.12.2020
SECTION	1: Identification of	the	subst	ance/mix	ture and of the company/undertaking
	<b>ct identifier</b> e name	:	Imidoo	carb Form	ulation
1.2 Releva	ant identified uses of	the	substar	ice or mix	tture and uses advised against
	of the Sub- e/Mixture	:	Veteri	nary produ	uct
Reco on us	mmended restrictions e	:	Not ap	oplicable	
1.3 Details	s of the supplier of th	e sa	fety dat	a sheet	
Comp	bany	:		artan Roa Spartan, S	d South Africa
Telep	hone	:	+2711	9239300	
	il address of person onsible for the SDS	:	EHSD	ATASTEV	VARD@msd.com
-	gency telephone numl 08-423-6000	ber			
SECTION	N 2: Hazards identifi	cati	on		
2.1 Classi	ification of the substa	nce	or mixt	ure	
Class	sification (REGULATIO	ON (	EC) No	1272/200	8)
Spec	oductive toxicity, Categ ific target organ toxicity				d: Suspected of damaging the unborn child. : May cause damage to organs.
Spec	posure, Category 2 Specific target organ toxicity - exposure, Category 2				: May cause damage to organs through pro- ed or repeated exposure.
2.2 Label	elements				
	Iling (REGULATION (B rd pictograms	<b>ΞC)</b>   :	No 1272	2/2008)	
Signa	al word	:	Warnin	g	
Haza	rd statements	:	H361d H371 H373	May cau	ed of damaging the unborn child. se damage to organs. se damage to organs through prolonged or



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		repeated exposure	2.
Precau	tionary statements	Prevention:	
		P264 Wash skir P270 Do not ea	ecial instructions before use. thoroughly after handling. t, drink or smoke when using this product. ective gloves/ protective clothing/ eye protec- on.
		<b>Response:</b> P308 + P311 IF CENTER/ doctor.	exposed or concerned: Call a POISON
		<b>Storage:</b> P405 Store lock	ed up.

Hazardous components which must be listed on the label: imidocarb

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

## Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
imidocarb	27885-92-3 248-711-7	Acute Tox. 4; H302 Repr. 2; H361d STOT SE 1; H370 (Central nervous system) STOT RE 1; H372 (Liver, Kidney)	>= 3 - < 10

For explanation of abbreviations see section 16.

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection,



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					mmended personal protective equipment al for exposure exists (see section 8).
I	lf inhale	ed	:	If inhaled, remove Get medical atter	
In case of skin contact		:	of water. Remove contamin Get medical atter Wash clothing be		
I	In case	of eye contact	:		vater as a precaution. Ition if irritation develops and persists.
I	lf swalld	owed	:	Get medical atter Rinse mouth thor	NOT induce vomiting. htion. oughly with water. ing by mouth to an unconscious person.
4.2 M	lost im	portant symptoms a	nd e	effects, both acute	and delayed
	Risks		:	Suspected of dan May cause dama	naging the unborn child.
4.3 lr	ndicatio	on of any immediate	med	dical attention and	d special treatment needed
	Treatm	-	:		cally and supportively.
SEC	TION	5: Firefighting meas	sur	es	
5.1 E	xtinau	ishing media			
	-	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	Unsuita media	ble extinguishing	:	None known.	
5.2 S	pecial	hazards arising from	the	e substance or mi	xture
Ş	-	c hazards during fire-	:		bustion products may be a hazard to health.

Hazardous combustion prod- : Carbon oxides ucts

## 5.3 Advice for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.



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for fire	efighters	Use personal p	rotective equipment.
Spec ods	ific extinguishing meth-	cumstances an Use water spra	ng measures that are appropriate to local cir- d the surrounding environment. y to cool unopened containers. naged containers from fire area if it is safe to do

## **SECTION 6:** Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
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 oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling	<ul> <li>Use only with adequate ventilation.</li> <li>Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes.</li> </ul>



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Hygie	ne measures	:	Wash skin thorou Handle in accord practice, based o sessment Do not eat, drink Take care to prev environment. If exposure to che flushing systems place. When usin nated clothing be The effective ope engineering contr appropriate dego	ration of a facility should include review of rols, proper personal protective equipment, wning and decontamination procedures, e monitoring, medical surveillance and the
7.2 Condi	tions for safe storage,	inclu	iding any incom	patibilities
•	irements for storage and containers			labelled containers. Store locked up. Store in the particular national regulations.
Advic	e on common storage		Strong oxidizing	stances and mixtures
-	fic end use(s) fic use(s)	:	No data available	

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
imidocarb	27885-92-3	TWA	40 µg/m3 (OEB 3)	Internal
		Wipe limit	400 µg/100 cm²	Internal

# Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Propylene glycol	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
	Workers	Inhalation	Long-term systemic effects	168 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	10 mg/m3
	Consumers	Inhalation	Long-term systemic	50 mg/m3



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			effects	
Predi	cted No Effect Conc	entration (PNEC) acc	ording to Regulation (EC) No. 1907/	2006:

Substance name	Environmental Compartment	Value
Propylene glycol	Fresh water	260 mg/l
	Freshwater - intermittent	183 mg/l
	Marine water	26 mg/l
	Sewage treatment plant	20000 mg/l
	Fresh water sediment	572 mg/kg dry
		weight (d.w.)
	Marine sediment	57,2 mg/kg dry
		weight (d.w.)
	Soil	50 mg/kg dry
		weight (d.w.)

#### 8.2 Exposure controls

#### **Engineering measures**

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less 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.

Laboratory operations do not require special containment.

### Personal protective equipment

Eye/face protection	:	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.
Hand protection Material	:	Chemical-resistant gloves
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type	:	Particulates type (P)

### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	liquid Colorless to pale yellow No data available No data available
рН	:	4,0 - 5,5
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	No data available



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	Evapor	ation rate	:	No data available	9
	Flamm	ability (solid, gas)	:	Not applicable	
		explosion limit / Upper ability limit	:	No data available	9
		explosion limit / Lower ability limit	:	No data available	9
	Vapou	pressure	:	No data available	2
	Relativ	e vapour density	:	No data available	9
	Relativ	e density	:	No data available	9
	Density	/	:	0,900 - 1,100 g/c No data available	
	Partitio octano	er solubility n coefficient: n-	:	No data available Not applicable No data available	
	-	position temperature	:	No data available	
			•		2
	Viscosi Visc	cosity, kinematic	:	No data available	9
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2		nformation ability (liquids)		No data available	
		llar weight		No data available	
		-	•		, ,
	Particle	5 917G	•	Not applicable	

## **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions

: Can react with strong oxidizing agents.



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0.4 Con	ditions to avoid			
Cond	ditions to avoid	:	None known.	
0.5 Inco	mpatible materials			
Mate	erials to avoid	:	Oxidizing agents	
	ardous decomposition p			
	azardous decomposition			
SECTIO	N 11: Toxicological in	for	nation	
	rmation on toxicologica			
Infor expo	mation on likely routes of sure	:	Inhalation Skin contact	
·			Ingestion Eye contact	
Acut	e toxicity		Lye contact	
	classified based on availa	ble	nformation.	
Proc				
Acut	e oral toxicity	:	Acute toxicity esti Method: Calculati	mate: > 2.000 mg/kg on method
Com	ponents:			
imid	ocarb:			
Acut	e oral toxicity	:	LD50 (Rat): 1.216	6 - 1.652 mg/kg
			LD50 (Mouse): 54	14 - 702 mg/kg
			LD50 (Rabbit): 31	7 mg/kg
Acut	e inhalation toxicity	:	Remarks: No data	a available
Acut	e dermal toxicity	:	Remarks: No data	a available
	e toxicity (other routes of inistration)	:	LD50 (Rat): 32,7 Application Route	
			LD50 (Mouse): 22 Application Route	
	corrosion/irritation classified based on availa	ble	nformation.	
<u>Com</u>	ponents:			
imid	ocarb:			
	arks		No data available	



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	Serious eye damage/eye irritation Not classified based on available information.									
	Components:									
	imido Rema		:	No data available						
	Roma		•							
	Respi	ratory or skin sensit	satior	n						
		sensitisation assified based on avai	lable ir	nformation.						
	•	ratory sensitisation assified based on avai	lahle ir	oformation						
		onents:								
	imido									
	Rema		:	No data available						
		cell mutagenicity assified based on avai	lable ir	nformation.						
	<u>Comp</u>	onents:								
	imido	carb:								
	Genot	oxicity in vitro		Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)					
				Test Type: In vitro Result: negative	mammalian cell gene mutation test					
				Test Type: Chrom Result: equivocal	osome aberration test in vitro					
	Genot	oxicity in vivo		Test Type: Mamm cytogenetic assay Species: Rat	alian erythrocyte micronucleus test (in vivo )					
				Application Route Result: negative	: Oral					
				Test Type: Mamm cytogenetic assay Species: Mouse Application Route Result: negative						
				<u> </u>						
		<b>10genicity</b> assified based on avai	lahla ir	oformation						
			iaule ll	normation.						
		onents:								
	imido Specie			Rat						
	opoor		•							



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Expo LOAI Resu	lt et Organs	: negative : Mammary g	body weight gland nism or mode of action may not be relevant in hu-
-	oductive toxicity ected of damaging the	unborn child.	
	ponents:		
	ocarb:		
	ts on fertility	Species: Re Application Fertility: LC Result: Adv Test Type: Species: Re Application	Route: Oral AEL: 135 mg/kg body weight erse neonatal effects. Two-generation reproduction toxicity study
Effec ment	ts on foetal develop-	Species: R Application Developme Result: Effe Test Type: Species: R Application Developme Test Type: Species: R Application Developme	Route: Oral ntal Toxicity: LOAEL: 76 mg/kg body weight cts on foetal development, No teratogenic effects Embryo-foetal development at Route: Oral ntal Toxicity: NOAEL: 19 mg/kg body weight Embryo-foetal development
Repr	oductive toxicity - As- ment	: Some evide animal exp	ence of adverse effects on development, based on eriments.
	<b>F - single exposure</b> cause damage to organ	s.	
-	ponents:		
imide	ocarb:		
	et Organs ssment		vous system nage to organs.



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	- repeated exposur		
May o	cause damage to orga	ins through prolonged	d or repeated exposure.
<u>Com</u>	ponents:		
imido	ocarb:		
	et Organs ssment	: Liver, Kidney : Causes dama exposure.	ge to organs through prolonged or repeated
Repe	ated dose toxicity		
Com	ponents:		
imido	ocarb:		
Expos		: Rat : 125 mg/kg : Oral : 90 Days : Liver	
Expo	ΞL	: Rat : 76 mg/kg : 415 mg/kg : Oral : 90 Days : Liver	
Expos	EL cation Route sure time et Organs	: Dog : 5 mg/kg : Oral : 90 Days : Liver, Kidney : muscle twitch	ing, Salivation, recumbency, ataxia, splayed le
Expos	ΞL	: Rat : 15 mg/kg : 60 mg/kg : Oral : 104 Weeks : Liver, Kidney,	Blood
	EL cation Route sure time	: Monkey : 5 mg/kg : Oral : 30 Days : No significant	adverse effects were reported

## Aspiration toxicity

Not classified based on available information.



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Exper	ience with human e	posur	e	
<u>Comp</u>	oonents:			
imido	carb:			
Inhalation			Symptoms: Sal mation, ataxia,	Central nervous system ivation, muscle twitching, Tremors, Lachry- lethargy d on Animal Evidence
SECTION	12: Ecological info	ormat	ion	
<b>12.1 Toxic</b> No da	<b>ity</b> ta available			
	<b>stence and degradat</b> ta available	oility		
12.3 Bioad	cumulative potentia	I		
Comp	oonents:			
	<b>carb:</b> on coefficient: n- ol/water	:	log Pow: 3,88	
<b>12.4 Mobil</b> No da	<b>ity in soil</b> ta available			
12.5 Resu	Its of PBT and vPvB	asses	sment	
<u>Produ</u> Asses	<u>ıct:</u> sment		to be either per	/mixture contains no components considered sistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of
12.6 Other	adverse effects			
<u>Produ</u>	<u>ict:</u>			
Endoo tial	rine disrupting poten-		ered to have er REACH Article	mixture does not contain components consid- adocrine disrupting properties according to 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher.

## 13.1 Waste treatment methods

Product

 Dispose of in accordance with local regulations.
 According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
 Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.



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Conta	aminated packaging	Do not dispose of waste into sewer. : 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 info	rmation
14.1 UN n	umber	
ADN		: Not regulated as a dangerous good
ADR		: Not regulated as a dangerous good
RID		: Not regulated as a dangerous good
IMDG	ì	: Not regulated as a dangerous good
ΙΑΤΑ		: Not regulated as a dangerous good
14.2 UN p	roper shipping name	
ADN		: Not regulated as a dangerous good
ADR		: Not regulated as a dangerous good
RID		: Not regulated as a dangerous good
IMDG	ì	: Not regulated as a dangerous good
ΙΑΤΑ		: Not regulated as a dangerous good
14.3 Trans	sport hazard class(es	)
ADN		: Not regulated as a dangerous good
ADR		: Not regulated as a dangerous good
RID		: Not regulated as a dangerous good
IMDG	ì	: Not regulated as a dangerous good
ΙΑΤΑ		: Not regulated as a dangerous good
14.4 Pack	ing group	
ADN		: Not regulated as a dangerous good
ADR		: Not regulated as a dangerous good
RID		: Not regulated as a dangerous good
IMDG	ì	: Not regulated as a dangerous good
ΙΑΤΑ	(Cargo)	: Not regulated as a dangerous good
ΙΑΤΑ	(Passenger)	: Not regulated as a dangerous good
	<b>conmental hazards</b> egulated as a dangerou	is good
-	ial precautions for us	er
14.7 Trans Rema	•	<b>ig to Annex II of Marpol and the IBC Code</b> : Not applicable for product as supplied.



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### **SECTION 15: Regulatory information**

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

DSL	:	not determined
AICS	:	not determined
IECSC	:	not determined

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

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

#### Full text of H-Statements

H361d H370	:	Harmful if swallowed. Suspected of damaging the unborn child. Causes damage to organs if swallowed.
H372	:	Causes damage to organs through prolonged or repeated exposure if swallowed.

#### Full text of other abbreviations

Acute Tox. :	Acute toxicity
Repr. :	Reproductive toxicity
STOT RE :	Specific target organ toxicity - repeated exposure
STOT SE :	Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road: AIIC - Australian Inventory of Industrial Chemicals: ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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 - Interna-tional 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 - Interna-



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tional Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

#### Further information

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/

Classification of the mixtur	Classification procedure:	
Repr. 2	H361d	Calculation method
STOT SE 2	H371	Calculation method
STOT RE 2	H373	Calculation method

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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