

Imidocarb Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
3.10	30.09.2023	632251-00016	Date of first issue: 02.05.2016

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Imidocarb Injection Formulation				
Manufacturer or supplier's d	leta	iils				
Company name of supplier	:	MSD				
Address	:	126 E. Lincoln Avenue				
		Rahway, New Jersey U.S.A. 07065				
Telephone	:	908-740-4000				
Emergency telephone	:	1-908-423-6000				
E-mail address	:	EHSDATASTEWARD@msd.com				
Recommended use of the chemical and restrictions on use						
Recommended use	:	Veterinary product				
Restrictions on use	:	Not applicable				

SECTION 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: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response:





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			P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.					
	Storage: P405 Store locked up.							
		Disposal: P501 Dispos posal plant.	e of contents/ conta	iner to an approved waste dis-				
Othe	r hazards							
None	e known.							
SECTION	3. COMPOSITION/INF		IGREDIENTS					
Subs	tance / Mixture	: Mixture						
	ponents	· Mixture						
-	nical name		CAS-No.	Concentration (% w/w)				
Imido			27885-92-3	>= 10 -< 20				
	ionic acid		79-09-4	>= 3 -< 5				
Gene	eral advice	advice imme	diately.	eel unwell, seek medical cases of doubt seek medical				
lf inh	aled		nove to fresh air.					
In ca	se of skin contact	: In case of co of water. Remove cont Get medical a Wash clothin	 Get medical attention. In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. 					
In ca	se of eye contact	: Flush eyes w	ith water as a preca					
If swa	allowed	: If swallowed, Get medical a Rinse mouth	: If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.					
	important symptoms effects, both acute and red	: Suspected of Causes dama Causes dama	Never give anything by mouth to an unconscious person. Suspected of damaging the unborn child. Causes damage to organs if swallowed. Causes damage to organs through prolonged or repeated					
Prote	ection of first-aiders	: First Aid resp and use the r	exposure if swallowed. 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).					
Note	s to physician		matically and suppo					

Notes to physician : Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES



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S	Suitable extinguishing media		:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical		
	Jnsuita nedia	ble extinguishing	:	None known.		
	Specific ighting	hazards during fire	:	Exposure to combustion products may be a hazard to health		
	Hazardo ucts	ous combustion prod-	:	Carbon oxides		
	Specific ods	extinguishing meth-	:	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 c so. Evacuate area.		
		protective equipment	:	In the event of fire	e, wear self-contained breathing apparatus. tective equipment.	
SECT	FION 6.	ACCIDENTAL RELE	ASE	E MEASURES		
ti	ive equ	al precautions, protec- ipment and emer- procedures	:	Follow safe handl	tective equipment. ing advice (see section 7) and personal tent recommendations (see section 8).	
E	Environ	mental 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 of oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. 		
		s and materials for ment and cleaning up	:	For large spills, pro- containment to kee can be pumped, so container. Clean up remaining absorbent. Local or national up disposal of this mo- employed in the co- determine which mo- Sections 13 and 1	t absorbent material. rovide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ing materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding aterial requirements.	

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling		Use only with adequate ventilation. Do not breathe mist or vapors.



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Hygiene measures		 Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment. If exposure to chemical is likely during typical use, provide eye 				
		place. When using do r Wash contamina The effective op engineering con appropriate degr	s and safety showers close to the working not eat, drink or smoke. ated clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, the monitoring, medical surveillance and the ative controls.			
Condit	ions for safe storage					
Materials to avoid		: Do not store with Strong oxidizing	h the following product types: agents ostances and mixtures			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

:

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis		
Imidocarb	27885-92-3	TWA	40 µg/m3 (OEB 3)	Internal		
		Wipe limit	400 µg/100 cm ²	Internal		
Propionic acid	79-09-4	VLE-PPT	10 ppm	NOM-010-		
				STPS-2014		
		TWA	10 ppm	ACGIH		

Ingredients with workplace control parameters

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 containment devices).



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		Mi	nimize open ha	ndling.	
Pers	onal protective equip	ment			
Resp	Respiratory protection		If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.		
	Filter type Hand protection		ombined particu	lates and organic vapor type	
М	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	Skin and body protection		Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	clear
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	4.5
Melting point/freezing point	:	100 °C
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available



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Vap	oor pressure	:	No data available	2
Rel	ative vapor density	:	No data available	9
Der	nsity	:	No data available	9
	Solubility(ies) Water solubility		soluble	
	Partition coefficient: n- octanol/water Autoignition temperature		No data available	9
			No data available)
Dec	Decomposition temperature		No data available	9
	Viscosity Viscosity, kinematic		No data available	
Exp	losive properties	:	Not explosive	
Oxi	Oxidizing properties		The substance o	r mixture is not classified as oxidizing.
			No data available	, and the second s
	ecular weight	•		
Particle size		:	No data available	•

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity

: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method



ersion 10	Revision Date: 30.09.2023	-	9S Number: 2251-00016	Date of last issue: 04.04.2023 Date of first issue: 02.05.2016
Acute	e dermal toxicity	:	Acute toxicity esti Method: Calculation	mate: > 5,000 mg/kg on method
<u>Com</u>	oonents:			
Imido	ocarb:			
Acute	e oral toxicity	:	LD50 (Rat): 1,216	5 - 1,652 mg/kg
			LD50 (Mouse): 54	4 - 702 mg/kg
			LD50 (Rabbit): 31	7 mg/kg
Acute	inhalation toxicity	:	Remarks: No data	a available
Acute	e dermal toxicity	:	Remarks: No data	a available
	e toxicity (other routes of nistration)	:	LD50 (Rat): 32.7 (Application Route	
			LD50 (Mouse): 22 Application Route	
Propi	ionic acid:			
Acute	inhalation toxicity	:	LC50 (Rat): > 20 Exposure time: 4 Test atmosphere:	h
Acute	e dermal toxicity	:	LD50 (Rat, female	e): 3,235 mg/kg
Not cl	corrosion/irritation lassified based on availa ponents:	ble	information.	
Imido Rema	ocarb: arks	:	No data available	
Propi	ionic acid:			
Speci Resul		:	Rabbit Corrosive after 3 i	minutes to 1 hour of exposure
	us eye damage/eye irri lassified based on availa			
Com	oonents:			
	ocarb:			
Rema	arks	:	No data available	



ersion 10	Revision Date: 30.09.2023	SDS Number: 632251-00016	Date of last issue: 04.04.2023 Date of first issue: 02.05.2016				
Propi	onic acid:						
Speci Resul	es	: Rabbit : Irreversible	Rabbit Irreversible effects on the eye				
Resp	iratory or skin sens	itization					
-	sensitization lassified based on av	ailable information.					
-	iratory sensitizatior lassified based on av						
Com	oonents:						
lmido Rema	ocarb: arks	: No data ava	ilable				
Test 7	es of exposure es It	: Maximizatio : Skin contac : Guinea pig : negative : Based on da					
Not cl <u>Com</u> p	a cell mutagenicity lassified based on av ponents: pocarb:	ailable information.					
imiac							
Geno	toxicity in vitro	: Test Type: I Result: nega	Bacterial reverse mutation assay (AMES) ative				
Geno		Result: neg	ative n vitro mammalian cell gene mutation test				
Geno		Result: neg Test Type: I Result: neg	ative n vitro mammalian cell gene mutation test ative Chromosome aberration test in vitro				
		Result: neg Test Type: I Result: neg Test Type: 0 Result: equi	ative n vitro mammalian cell gene mutation test ative Chromosome aberration test in vitro vocal Mammalian erythrocyte micronucleus test (in vivo assay) it Route: Oral				
	toxicity in vitro	Result: neg Test Type: I Result: neg Test Type: 0 Result: equi : Test Type: 1 cytogenetic Species: Ra Application Result: neg	ative n vitro mammalian cell gene mutation test ative Chromosome aberration test in vitro vocal Mammalian erythrocyte micronucleus test (in vivo assay) it Route: Oral ative Mammalian erythrocyte micronucleus test (in vivo assay) buse Route: Oral				
Geno	toxicity in vitro	Result: neg Test Type: I Result: neg Test Type: 0 Result: equi : Test Type: I cytogenetic Species: Ra Application Result: neg Test Type: I cytogenetic Species: Ma Application	ative n vitro mammalian cell gene mutation test ative Chromosome aberration test in vitro vocal Mammalian erythrocyte micronucleus test (in vivo assay) it Route: Oral ative Mammalian erythrocyte micronucleus test (in vivo assay) buse Route: Oral				



ersion 10	Revision Date: 30.09.2023		0S Number: 2251-00016	Date of last issue: 04.04.2023 Date of first issue: 02.05.2016			
			Method: OECD T Result: negative	est Guideline 471			
			Test Type: In vitr malian cells Result: negative	o sister chromatid exchange assay in mam-			
Genot	Genotoxicity in vivo		Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Hamster Application Route: Intraperitoneal injection Result: negative				
	nogenicity assified based on availa	able	information.				
Comp	oonents:						
Expos LOAE Resul	es cation Route sure time L t t Organs		Rat Oral 104 weeks 240 mg/kg body negative Mammary gland The mechanism mans.	weight or mode of action may not be relevant in hu-			
Specie Applic	ation Route sure time		Rat Ingestion 2 Years negative				
	oductive toxicity ected of damaging the u	nbo	rn child.				
<u>Comp</u>	oonents:						
Imido Effect	carb: s on fertility	:	Species: Rat Application Rout	135 mg/kg body weight			
			Species: Rat Application Rout	generation reproduction toxicity study e: Oral 45 mg/kg body weight			
Effect	s on fetal development	:	Test Type: Embr Species: Rat Application Route	yo-fetal development e: Oral			



ersion .10	Revision Date: 30.09.2023		OS Number: 2251-00016	Date of last issue: 04.04.2023 Date of first issue: 02.05.2016
				oxicity: LOAEL: 76 mg/kg body weight a fetal development., No teratogenic effects.
			Test Type: Embry Species: Rat Application Route	vo-fetal development e: Oral
				oxicity: NOAEL: 19 mg/kg body weight
			Test Type: Embry Species: Rabbit Application Route	vo-fetal development :: Oral
			Developmental To	oxicity: NOAEL: 20 mg/kg body weight son fetal development.
Repro sessn	oductive toxicity - As- nent	:	Some evidence o animal experimer	f adverse effects on development, based on ts.
Propi	onic acid:			
Effect	s on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-fetal development :: Ingestion
			5	on data from similar materials
	-single exposure es damage to organs (C	entr	al nervous system) if swallowed.
<u>Comp</u>	oonents:			
Imido	ocarb:			
-	et Organs ssment	:	Central nervous s Causes damage	
Propi	onic acid:			
Asses	ssment	:	May cause respire	atory irritation.
STOT	-repeated exposure			
	• •	iver,	Kidney) through p	rolonged or repeated exposure if swallowed.
<u>Comp</u>	oonents:			
Imido	ocarb:			
	et Organs ssment	:	Liver, Kidney Causes damage t exposure.	to organs through prolonged or repeated
Propi	onic acid:			
Asses	ssment	:	No significant heat tions of 200 mg/k	alth effects observed in animals at concentra- g bw or less.



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Repea	ated dose toxicity		
<u>Comp</u>	onents:		
Imido	carb:		
Specie	es	: Rat	
LÒAE		: 125 mg/kg	
Applic	ation Route	: Oral	
	ure time	: 90 Days	
	t Organs	: Liver	
Specie	es	: Rat	
NOAE		: 76 mg/kg	
LOAE	L	: 415 mg/kg	
	ation Route	: Oral	
	ure time	: 90 Days	
Target	t Organs	: Liver	
Specie		: Dog	
LOAE		: 5 mg/kg	
	ation Route	: Oral	
	ure time	: 90 Days	
	t Organs	: Liver, Kidney	
Sympt	ioms	: muscle twitchir	ng, Salivation, recumbency, ataxia, splayed leg
Specie		: Rat	
NOAE		: 15 mg/kg	
LOAE	—	: 60 mg/kg	
	ation Route	: Oral	
	ure time	: 104 Weeks	
Target	t Organs	: Liver, Kidney, I	Blood
Specie		: Monkey	
NOAE		: 5 mg/kg	
	ation Route	: Oral	
	ure time	: 30 Days	
Rema	rks	: No significant a	adverse effects were reported
Propie	onic acid:		
Specie		: Dog	
NOAE		: 733.4 mg/kg	
-	ation Route	: Ingestion	
	ure time	: 90 Days	
Metho		: OECD Test Gu	iideline 409
Specie	es	: Mouse, female	
LOAE		: 136.9 mg/kg	
	ation Route	: Skin contact	
	ure time	: 90 Days	

Aspiration toxicity

Not classified based on available information.



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Experi	ience with human exp	osu	ire	
Comp	onents:			
Imidoo	carb:			
Inhalation : Target Organs: Central nervous system Symptoms: Salivation, muscle twitching, Tremors, Lachry mation, ataxia, lethargy Remarks: Based on Animal Evidence				
Ecoto		<i></i>		
	-			
	onents:			
-	onic acid: y to fish	:	Exposure time: 96 Method: DIN 384	
	y to daphnia and other c invertebrates	:	Exposure time: 48 Method: Directive	agna (Water flea)): > 100 mg/l 3 h 67/548/EEC, Annex V, C.2. on data from similar materials
Toxicit plants	y to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD To	
Toxicit	y to microorganisms	:	EC10 (Pseudomo Exposure time: 17 Method: DIN 38 4	
Persis	tence and degradabili	ity		
<u>Comp</u>	onents:			
•	onic acid: gradability	:	Result: Readily bi Biodegradation: 7 Exposure time: 30	74 %
Bioaco	cumulative potential			
Comp	onents:			
	carb: on coefficient: n- I/water	:	log Pow: 3.88	
Propic	onic acid:			





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Partitic octano	on coefficient: n- I/water	: log Pow: 0.33	
	ty in soil a available		
••	adverse effects a available		
SECTION 1	3. DISPOSAL CONS	IDERATIONS	

•	
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

Disposal methods

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

Domestic regulation

NOM-002-SCT Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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

Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for producing capsules, tablets and pills.

The ingredients of this product are reported in the following inventories:

AICS	:	not dete	rmine	d

DSL : not determined



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IEC	SC	:	not determined	
SECTIO	N 16. OTHER INFORMA	TIOI	N	
Revision Date Date format		:	30.09.2023 dd.mm.yyyy	
Full	text of other abbreviati	ons		
ACGIH NOM-010-STPS-2014		:	USA. ACGIH Threshold Limit Values (TLV) Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting the Work Environment - Identification, Assessment and Con- trol - Appendix 1 Occupational Exposure Limits	
	GIH / TWA //-010-STPS-2014 / VLE-	:	8-hour, time-weig Time weighted av	hted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil: ASTM - American Society for the Testing of Materials; bw - Body weight: CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance: PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Sources of key data used to : compile the Material Safety Data Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/





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The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

MX / Z8