



6.0 2024/09/28 632249-00018 Date of first issue: 2016/05/02			Date of last issue: 2024/04/06 Date of first issue: 2016/05/02
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1. PRODUCT AND COMPANY IDENTIFICATION

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

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

2. HAZARDS IDENTIFICATION

GHS classification of chemication of chemication of chemication of the state of the		product 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:





sion	Revision Date: 2024/09/28	SDS Number: 632249-00018	Date of last issue: 2024/04/06 Date of first issue: 2016/05/02
		P202 Do not h and understoc P260 Do not b P264 Wash sl P270 Do not e	breathe mist or vapours. kin thoroughly after handling. eat, drink or smoke when using this product. otective gloves/ protective clothing/ eye protec-
		Response: P308 + P311 CENTER/ doc	IF exposed or concerned: Call a POISON ctor.
		Storage: P405 Store lo	cked up.
		Disposal: P501 Dispose disposal plant	e of contents/ container to an approved waste
•	hazards which do r known.	not result in classifica	

Substance / Mixture

: Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
imidocarb	27885-92-3	>= 10 - < 20	-
Propionic acid	79-09-4	<= 3	2-602

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. Get medical attention.
In case of skin contact	 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 case of eye contact	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	: If swallowed, DO NOT induce vomiting. Get medical attention.



Versic 6.0	on Revision Date: 2024/09/28		9S Number: 2249-00018	Date of last issue: 2024/04/06 Date of first issue: 2016/05/02
a d P	flost important symptoms nd effects, both acute and elayed Protection of first-aiders lotes to physician	:	Suspected of dam Causes damage to Causes damage to exposure if swalld First Aid responder and use the recorn when the potentia	ng by mouth to an unconscious person. haging the unborn child. o organs if swallowed. o organs through prolonged or repeated
5. FIR	EFIGHTING MEASURES			
S	uitable extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	Insuitable extinguishing nedia	:	None known.	
	Specific hazards during fire- ghting	:	Exposure to comb	pustion products may be a hazard to health.
	lazardous combustion prod- cts	:	Carbon oxides	
	pecific extinguishing meth- ds	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special protective equipment or firefighters	:		e, wear self-contained breathing apparatus. rective equipment.
6. AC	CIDENTAL RELEASE MEAS	SUF	RES	

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

Packaging material



Imidocarb Injection Formulation

ersion 6.0	Revision Date: 2024/09/28		0S Number: 2249-00018	Date of last issue: 2024/04/06 Date of first issue: 2016/05/02
	ods and materials for inment and cleaning up	:	For large spills ment to keep r be pumped, st Clean up rema bent. Local or nation posal of this m employed in th mine which reg Sections 13 ar	hert absorbent material. s, provide dyking or other appropriate contain- naterial from spreading. If dyked material can ore recovered material in appropriate container. aning materials from spill with suitable absor- nal regulations may apply to releases and dis- aterial, as well as those materials and items the cleanup of releases. You will need to deter- gulations are applicable. Ind 15 of this SDS provide information regarding national requirements.
. HANDL	ING AND STORAGE			
Hand	llina			
	nical measures	:		ng measures under EXPOSURE
Local	/Total ventilation			ERSONAL PROTECTION section. adequate ventilation.
	e on safe handling	:	Do not swallow Avoid contact Avoid prolonge Wash skin tho Handle in acco practice, based sessment Do not eat, drit	
	lance of contact ene measures	:	flushing syster place. When using do Wash contami The effective of engineering co appropriate de industrial hygie	nts chemical is likely during typical use, provide eye ns and safety showers close to the working o not eat, drink or smoke. nated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, gowning and decontamination procedures, ene monitoring, medical surveillance and the trative controls.
Stora	age		-	
	itions for safe storage	:	Store locked u	
Mate	rials to avoid	:		dance with the particular national regulations. ith the following product types:

Strong oxidizing agents

: Unsuitable material: None known.



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
6.0	2024/09/28	632249-00018	Date of first issue: 2016/05/02

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Concentra- tion standard / Permissible con- centration	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	8h-OEL-M	10 ppm	JP ISHL OEL
				577-2(2)
		TWA	10 ppm	ACGIH

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. 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- tainment devices). Minimize open handling.
Personal protective equipme	ent	
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type Hand protection	:	Combined particulates and organic vapour type
Material	:	Chemical-resistant gloves
Remarks	:	Consider double gloving. Impermeable protective gloves
Eye 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.
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, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.





6.0 2024/09/28 632249-00018 Date of first issue: 2016/05/02	Version 6.0	Revision Date: 2024/09/28	SDS Number: 632249-00018	Date of last issue: 2024/04/06 Date of first issue: 2016/05/02
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Colour	:	clear
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	100 °C
Boiling point, initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Lower explosion limit and uppe Upper explosion limit / Up- per flammability limit		xplosion limit / flammability limit No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Decomposition temperature	:	No data available
рН	:	4.5
Evaporation rate	:	No data available
Auto-ignition temperature	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility	:	soluble
Partition coefficient: n- octanol/water	:	No data available
Vapour pressure	:	No data available
Density and / or relative density Density	y :	No data available
Relative vapour density	:	No data available

SAFETY DATA SHEET



Version Revision Date: 6.0 2024/09/28	SDS Number: 632249-00018	Date of last issue: 2024/04/06 Date of first issue: 2016/05/02
Explosive properties	: Not explosive	
Oxidizing properties	: The substance	or mixture is not classified as oxidizing.
Molecular weight	: No data availab	le
Particle characteristics Particle size	: No data availab	le
10. STABILITY AND REACTIVITY	,	
Reactivity Chemical stability Possibility of hazardous reac- tions Conditions to avoid Incompatible materials	 Stable under no Can react with None known. Oxidizing agent 	
Hazardous decomposition products	: No hazardous o	lecomposition products are known.
11. TOXICOLOGICAL INFORMAT	TION	
Information on likely routes of exposure	: Inhalation Skin contact Ingestion Eye contact	
Acute toxicity Not classified based on availa	ble information.	
Product: Acute oral toxicity	: Acute toxicity es Method: Calcula	timate: > 2,000 mg/kg tion method
Components:		
imidocarb:		
Acute oral toxicity	: LD50 (Rat): 1,21	6 - 1,652 mg/kg
	LD50 (Mouse): {	544 - 702 mg/kg
	LD50 (Rabbit): 3	17 mg/kg
Acute inhalation toxicity	: Remarks: No da	ta available
Acute dermal toxicity	: Remarks: No da	ta available
Acute toxicity (other routes of administration)	: LD50 (Rat): 32.7 Application Rout	
	7 / 18	



/ersion 5.0	Revision Date: 2024/09/28	SDS Nu 632249-		Date of last issue: 2024/04/06 Date of first issue: 2016/05/02
п				
				22.3 mg/kg ute: Intravenous
Prop	ionic acid:			
	e inhalation toxicity	Expo	0 (Rat): > 2 osure time: atmosphe	4 h
Acute	e dermal toxicity	: LD50	0 (Rat, fem	ale): 3,235 mg/kg
-	corrosion/irritation			
	lassified based on ava ponents:	ulable inforn	nation.	
imide	ocarb:			
Rema		: No d	lata availat	ble
	ionic acid:			
Spec Resu		: Rabl : Corr		3 minutes to 1 hour of exposure
	ous eye damage/eye			
	lassified based on ava ponents:	ilable inforn	nation.	
	ocarb:			
Rema		: No d	lata availat	ble
Prop	ionic acid:			
Spec Resu		: Rabl : Irrev		ects on the eye
Resp	piratory or skin sensi	tisation		
	sensitisation lassified based on ava	ilable inforn	nation.	
-	iratory sensitisation lassified based on ava	ilable inforn	nation.	
<u>Com</u>	ponents:			
imide Rema	ocarb: arks	: No d	lata availat	ble

SAFETY DATA SHEET



ersion 0	Revision Date: 2024/09/28	SDS Number: 632249-00018	Date of last issue: 2024/04/06 Date of first issue: 2016/05/02
Test	sure routes ies It	: Maximisatio : Skin contac : Guinea pig : negative : Based on c	
	a cell mutagenicity lassified based on av	ailable information.	
Com	ponents:		
	ocarb:		
Geno	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
		Test Type: Result: neg	In vitro mammalian cell gene mutation test ative
		Test Type: Result: equ	Chromosome aberration test in vitro ivocal
Geno	toxicity in vivo	cytogenetic Species: R	at Route: Oral
		cytogenetic Species: M	ouse Route: Oral
II Propi	ionic acid:		
	toxicity in vitro		Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 ative
		Test Type: malian cells Result: neg	
Geno	toxicity in vivo	cytogenetic Species: H	amster Route: Intraperitoneal injection





Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
6.0	2024/09/28	632249-00018	Date of first issue: 2016/05/02

Carcinogenicity

Not classified based on available information.

Components:

imidocarb:

Species Application Route Exposure time LOAEL Result Target Organs Remarks	: Rat
Application Route	: Oral
Exposure time	: 104 weeks
LOAEL	: 240 mg/kg body weight
Result	: negative
Target Organs	: Mammary gland
Remarks	: The mechanism or mode of action may not be relevant in
	humans.

Propionic acid:

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	2 Years
Result	:	negative

Reproductive toxicity

Suspected of damaging the unborn child.

Components:

imidocarb:

Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Fertility: LOAEL: 135 mg/kg body weight Result: Adverse neonatal effects.
		Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Fertility: NOAEL: 45 mg/kg body weight
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 76 mg/kg body weight Result: Effects on foetal development, No teratogenic effects
		Test Type: Embryo-foetal development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 19 mg/kg body weight
		Test Type: Embryo-foetal development Species: Rabbit Application Route: Oral



/ersion 5.0	Revision Date: 2024/09/28	-	OS Number: 2249-00018	Date of last issue: 2024/04/06 Date of first issue: 2016/05/02
п			Dovelopmental	Toxicity NOAEL 20 mg///g body weight
				Toxicity: NOAEL: 20 mg/kg body weight cts on foetal development
Repr sessi	oductive toxicity - As- ment	:	Some evidence animal experim	e of adverse effects on development, based o lents.
Prop	ionic acid:			
	ts on foetal develop-	:	Species: Rat Application Rou Result: negativ	
	T - single exposure ses damage to organs (Centr	al nervous syste	em) if swallowed.
<u>Com</u>	ponents:			
imide	ocarb:			
	et Organs ssment	:	Central nervous Causes damag	
-	ionic acid: ssment	:	May cause resp	piratory irritation.
STO	T - repeated exposure	;		
Caus	ses damage to organs (Liver,	Kidney) through	n prolonged or repeated exposure if swallowe
Com	ponents:			
imide	ocarb:			
	et Organs ssment	:	Liver, Kidney Causes damag exposure.	e to organs through prolonged or repeated
Prop	ionic acid:			
	ssment	:	No significant h tions of 200 mg	nealth effects observed in animals at concentr /kg bw or less.
Repe	eated dose toxicity			
<u>Com</u>	ponents:			
imide	ocarb:			
Spec		:	Rat	
LOAI Appli	≟L cation Route	:	125 mg/kg Oral	
Expo	et Organs	:	90 Days Liver	



rsion	Revision Date: 2024/09/28	SDS Number: 632249-00018	Date of last issue: 2024/04/06 Date of first issue: 2016/05/02
Specie	9S	: Rat	
NOAE	L	: 76 mg/kg	
LOAEL		: 415 mg/kg	
	ation Route ure time	: Oral : 90 Days	
Target	Organs	: Liver	
Specie		: Dog	
	- ation Route	: 5 mg/kg : Oral	
	ure time	: 90 Days	
	Organs	: Liver, Kidney	
Sympto			ng, Salivation, recumbency, ataxia, splayed legs
Specie		: Rat	
NOAE		: 15 mg/kg	
LOAEL		: 60 mg/kg	
Applica	ation Route ure time	: Oral : 104 Weeks	
Target		: Liver, Kidney,	Blood
	-		2.000
Specie NOAE		: Monkey	
	L ation Route	: 5 mg/kg : Oral	
	ure time	: 30 Days	
Remar			adverse effects were reported
Propic	onic acid:		
Specie	es	: Dog	
NOAE	L	: 733.4 mg/kg	
	ation Route	: Ingestion	
Exposi Methor	ure time	: 90 Days : OECD Test G	uideline 409
Specie		: Mouse, female	9
LOAEL	- ation Route	: 136.9 mg/kg : Skin contact	
Annua		. SKII COILIACE	



VersionRevision Date:SDS Number:Date of last issue: 2024/04/066.02024/09/28632249-00018Date of first issue: 2016/05/02	
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Ecotoxicity	
Components:	
Propionic acid:	
Toxicity to fish	 LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l Exposure time: 96 h Method: DIN 38412 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	 EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: Directive 67/548/EEC, Annex V, C.2. Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	 EbC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to microorganisms	: EC10 (Pseudomonas putida): 44.6 mg/l Exposure time: 17 h Method: DIN 38 412 Part 8
Persistence and degradabili	ty

Components:

Propionic acid:

Biodegradability	: Result: Readily biodegradable. Biodegradation: 74 %
	Exposure time: 30 d

Bioaccumulative potential

Components:

imidocarb: Partition coefficient: n- octanol/water	:	log Pow: 3.88	
Propionic acid: Partition coefficient: n- octanol/water	:	log Pow: 0.33	
Mobility in soil			

Mobility in soil

No data available





rsion)	Revision Date: 2024/09/28	SDS Number: 632249-00018	Date of last issue: 2024/04/06 Date of first issue: 2016/05/02
Haza	rdous to the ozone lay	er	
Not a	pplicable		
Other	r adverse effects		
No da	ata available		
. DISPO	SAL CONSIDERATION	IS	
Dispo	osal methods		
Waste	e from residues		accordance with local regulations.
Conta	aminated packaging		e of waste into sewer. ers should be taken to an approved waste har
Come	aminated packaging	dling site for re	ecycling or disposal. e specified: Dispose of as unused product.
. TRAN	SPORT INFORMATION		
Interr	national Regulations		
UNRT	ſDG		
	umber	: Not applicable	
•	er shipping name	: Not applicable	
Class		: Not applicable	
	diary risk ng group	: Not applicable : Not applicable	
Label		: Not applicable	
	onmentally hazardous	: no	
IATA	-DGR		
UN/IC		: Not applicable	
Prope	er shipping name	: Not applicable	
Class		: Not applicable	
	diary risk	: Not applicable	
	ng group	: Not applicable	
Label		: Not applicable : Not applicable	
aircra	ng instruction (cargo ft)		
Packi	ng instruction (passen- rcraft)	: Not applicable	
IMDG	-Code		
	umber	: Not applicable	
•	er shipping name	: Not applicable	
Class		: Not applicable	
	diary risk	: Not applicable	
Packi Label	ng group	: Not applicable : Not applicable	
EmS		: Not applicable	
	e pollutant	: Not applicable	



Version	Revision Date:	SDS Number:
6.0	2024/09/28	632249-00018

Date of last issue: 2024/04/06 Date of first issue: 2016/05/02

National Regulations

Refer to section 15 for specific national regulation.

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicable to dangerous materials / designated flammables.

Chemical Substance Control Law

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

Industrial Safety and Health Law

Harmful Substances Prohibited from Manufacture

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Substances Prevented From Impairment of Health

Not applicable

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

Not applicable

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

Not applicable

Substances Subject to be Notified Names

 Article 57-2 (Enforcement Order Table 9)

 Chemical name
 Concentration (%)

 Propionic acid
 <=3</td>

Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)

Chemical nameRemarksPropionic acid-

Skin and Eye Damage Substances for PPE Requirements (ISHL MO Art. 594-2)

Chemical name

Propionic acid

Carcinogenic Substances (Article 577-2 of the Occupational Health and Safety Regulations)

Not applicable





Ordinance on Prevention of Hazards Due to Specified Chemical Substances Not applicable Ordinance on Prevention of Lead Poisoning Not applicable Ordinance on Prevention of Tetraalkyl Lead Poisoning Not applicable Ordinance on Prevention of Organic Solvent Poisoning Not applicable Ordinance on Prevention of Organic Solvent Poisoning Not applicable Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances) Not applicable Poisonous and Deleterious Substances Control Law Not applicable Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the E vironment and Promotion of Improvements to the Management Thereof Not applicable High Pressure Gas Safety Act Not applicable Explosive Control Law Not applicable Vesed Safety Law Not regulated as a dangerous good Ariation Law Not regulated as a dangerous good Marine Pollution and Sea Disaster Prevention et Claw Buk transportation i Not classified as marine pollutati Narcotic or Psychotropic Control Act Narcotic or Psychotropic Raw Material (Export / Import permissi	0	Revision Date: 2024/09/28	SDS Number: 632249-00018	Date of last issue: 2024/04/06 Date of first issue: 2016/05/02
Not applicable Ordinance on Prevention of Lead Poisoning Not applicable Ordinance on Prevention of Tetraalkyl Lead Poisoning Not applicable Ordinance on Prevention of Organic Solvent Poisoning Not applicable Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerou Substances) Not applicable Poisonous and Deleterious Substances Control Law Not applicable Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the E vironment and Promotion of Improvements to the Management Thereof Not applicable Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the E vironment and Promotion of Improvements to the Management Thereof Not applicable High Pressure Gas Safety Act Not applicable Vessel Safety Law Not regulated as a dangerous good Aviation Law Not regulated as a dangerous good Marine Pollution and Sea Disaster Prevention etc Law Mat transportation : Noticalsified as marine pollutant Marcotic or Psychotropic Raw Material (Export / Import permission) Not applicable Material (Export / Import Permission) Not applicable Marcotic or Psychotropic Raw Material (Export / Import permission) Not applicable Material waste Destination in the following inventories: Aircs : not determined Dist. : not determined				
Not applicable Ordinance on Prevention of Lead Poisoning Not applicable Ordinance on Prevention of Tetraalkyl Lead Poisoning Not applicable Ordinance on Prevention of Organic Solvent Poisoning Not applicable Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerou Substances) Not applicable Poisonous and Deleterious Substances Control Law Not applicable Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the E vironment and Promotion of Improvements to the Management Thereof Not applicable High Pressure Gas Safety Act Not applicable Explosive Control Law Not applicable Vessel Safety Law Not regulated as a dangerous good Vation Law Not regulated as a dangerous good Marine Pollution and Sea Disaster Prevention etc Law Mot applicable Not capportation : Notic Constitute and Statistic as marine pollutant Marcotic or Psychotropic Raw Material (Export / Import permission) Not applicable Specific Anarcotic or Psychotropic Raw Material (Export / Import permission) Not applicable Material Waterial (Export / Import permission) Not applicable Material Ray Material (Export / Import permission) Not applicable Material Marcotic or Psychotropic Raw Material (Export / Import permission) Not applicable Material waste Mate	Ordin	ance on Preventio	n of Hazards Due to S	specified Chemical Substances
Not applicable Ordinance on Prevention of Tetraalkyl Lead Poisoning Not applicable Ordinance on Prevention of Organic Solvent Poisoning Not applicable Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerou Substances) Not applicable Poisonous and Deleterious Substances Control Law Not applicable Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the E vironment and Promotion of Improvements to the Management Thereof Not applicable High Pressure Gas Safety Act Not applicable Explosive Control Law Not applicable Vessel Safety Law Not regulated as a dangerous good Aviation Law Not regulated as a dangerous good Marine Pollution and Sea Disaster Prevention etc Law Bulk transportation : Not classified as marine pollutant Marcotic or Psychotropic Raw Material (Export / Import permission) Not applicable Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable Maste Disposal and Public Cleansing Law Industrial waste DesL : not determined				
Ordinance on Prevention of Tetraalkyl Lead Poisoning Not applicable Ordinance on Prevention of Organic Solvent Poisoning Not applicable Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerou Substances) Not applicable Poisonous and Deleterious Substances Control Law Not applicable Act on Confirmation, etc., of Release Amounts of Specific Chemical Substances in the E vironment and Promotion of Improvements to the Management Thereof Not applicable High Pressure Gas Safety Act Not applicable Explosive Control Law Not applicable Vessel Safety Law Not regulated as a dangerous good Aviation Law Not regulated as a dangerous good Martereof Pollution and Sea Disaster Prevention etc Law Bulk transportation Rarcotics and Psychotropic Raw Material (Export / Import Permission) Not applicable Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable Specific Narcotic or Psychotropic Raw Material (Export / Import permission) 			n of Lead Poisoning	
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Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
6.0	2024/09/28	632249-00018	Date of first issue: 2016/05/02

16. OTHER INFORMATION

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

Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

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

Date format	:	yyyy/mm/dd		
Full text of other abbreviations				
ACGIH JP ISHL OEL 577-2(2)	:	USA. ACGIH Threshold Limit Values (TLV) Concentration standard (Value set by the Minister of Health, Labour and Welfare stipulated under the Ministerial Ordinance Article 577-2(2))		
ACGIH / TWA JP ISHL OEL 577-2(2) / 8h- OEL-M	:	8-hour, time-weighted average 8-hour Occupational Exposure Limit-Mean		

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 Tem-

SAFETY DATA SHEET



Imidocarb Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
6.0	2024/09/28	632249-00018	Date of first issue: 2016/05/02

perature; 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.

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