

Diclofenac Formulation

Version	Revision Date: 2024/04/06	SDS Number:	Date of last issue: 2023/09/30
7.0		4780241-00011	Date of first issue: 2019/08/23
-			

1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name	:	Diclofenac Formulation
Supplier's company name, ac Company name of supplier		•
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 chemical product

Acute toxicity (Oral)	:	Category 4
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure	:	Category 2 (Gastrointestinal tract, Blood, lymphatic system, Liver, Prostate)
Long-term (chronic) aquatic hazard	:	Category 3

GHS label elements

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	 H302 Harmful if swallowed. H361d Suspected of damaging the unborn child. H373 May cause damage to organs (Gastrointestinal tract, Blood, lymphatic system, Liver, Prostate) through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects.



Diclofenac Formulation

	Version 7.0	Revision Date: 2024/04/06	SDS Number: 4780241-00011	Date of last issue: 2023/09/30 Date of first issue: 2019/08/23
_	Precau	utionary statements	· Prevention: P201 Obtain sp	ecial instructions before use.
			•	andle until all safety precautions have been res

P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe mist or vapours. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protec- tion/ face protection.
Response: P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P308 + P313 IF exposed or concerned: Get medical advice/ attention.
Storage: P405 Store locked up.
Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	: Mixture		
Components			
Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
Sodium [2-[(2,6-	15307-79-6	>= 3 - < 10	3-3082
dichloro-			
phenyl)amino]phenyl]acetate			
Benzyl alcohol	100-51-6	> 0 - < 10	3-1011

4. 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.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention.



Version 7.0	Revision Date: 2024/04/06	SDS Number 4780241-000				
		Thorough	thing before reuse. Ily clean shoes before reuse.			
In cas	se of eye contact		es with water as a precaution. cal attention if irritation develops and persists.			
lf swa	If swallowed		 Get medical attention in initiation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. 			
	important symptoms	: Harmful i	f swallowed.			
	effects, both acute and		d of damaging the unborn child.			
delay	ed	exposure	e damage to organs through prolonged or repeated			
Prote	ction of first-aiders	: First Aid and use t	responders should pay attention to self-protection, he recommended personal protective equipment potential for exposure exists (see section 8).			
Notes	s to physician		ptomatically and supportively.			
5. FIREFIG	GHTING MEASURES					
Suital	ble extinguishing media		esistant foam ioxide (CO2)			
Unsu	itable extinguishing	: None kno				
media Speci	a ific hazards during fire-		to combustion products may be a hazard to health.			
fightir Haza ucts	rdous combustion prod-		compounds oxides (NOx)			
Speci ods	ific extinguishing meth-	cumstand Use wate Remove	guishing measures that are appropriate to local cir- ces and the surrounding environment. r spray to cool unopened containers. undamaged containers from fire area if it is safe to d			
		so. Evacuate	area			
	ial protective equipment efighters	: In the eve	ent of fire, wear self-contained breathing apparatus. onal protective equipment.			
6. ACCIDI	ENTAL RELEASE MEAS	SURES				
tive e	onal precautions, protec- quipment and emer- y procedures	Follow sa	onal protective equipment. fe handling advice (see section 7) and personal pro juipment recommendations (see section 8).			
Envir	onmental precautions	Prevent f Prevent s barriers). Retain ar	ease to the environment. urther leakage or spillage if safe to do so. preading over a wide area (e.g. by containment or c id dispose of contaminated wash water. horities should be advised if significant spillages			
		Local aut				



Version 7.0	Revision Date: 2024/04/06	SDS Number: 4780241-00011	Date of last issue: 2023/09/30 Date of first issue: 2019/08/23
		cannot be cont	tained.
	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. a, provide dyking or other appropriate contain- naterial from spreading. If dyked material can ore recovered material in appropriate containen- ining materials from spill with suitable absor- nal regulations may apply to releases and dis- aterial, as well as those materials and items is cleanup of releases. You will need to deter- gulations are applicable. Ind 15 of this SDS provide information regarding r national requirements.
7. HANDL	ING AND STORAGE		
Hand	-		
Techr	nical measures		ng measures under EXPOSURE ERSONAL PROTECTION section.
	/Total ventilation e on safe handling	 Use only with a Do not get on a Do not breathed Do not swallow Avoid contact a Wash skin those Handle in according 	adequate ventilation. skin or clothing. e mist or vapours. v.
	ance of contact ne measures	Take care to p environment.Oxidizing agerIf exposure to	nk or smoke when using this product. revent spills, waste and minimize release to th nts chemical is likely during typical use, provide ey ns and safety showers close to the working
		place. When using do Wash contami The effective o engineering co appropriate de industrial hygie	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	-		
	itions for safe storage ials to avoid	Store locked u Store in accore	dance with the particular national regulations. ith the following product types:



Diclofenac Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/09/30
7.0	2024/04/06	4780241-00011	Date of first issue: 2019/08/23

Packaging material : Unsuitable material: None known.

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 / Reference concentration / Permissible con- centration	Basis				
Sodium [2-[(2,6- dichloro- phenyl)amino]phenyl]acetate	15307-79-6	TWA	100 µg/m3 (OEB 2)	Internal				
	Further information	Further information: Skin						
Benzyl alcohol	100-51-6	OEL-C	25 mg/m3	JP OEL JSOH				
		Further information: Skin sensitizing agent; Group 2 substances which probably induce allergic reactions in humans.						

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	t
Respiratory protection :	If adequate local exhaust ventilation is not available or expo-

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
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Colour	:	yellow



Vers 7.0	sion	Revision Date: 2024/04/06		S Number: 0241-00011	Date of last issue: 2023/09/30 Date of first issue: 2019/08/23
	Odour		:	characteristic	
	Odour T	- hreshold	:	No data available	
	Melting	point/freezing point	:	-54 °C	
		point, initial boiling Id boiling range	:	98.5 °C	
	Flamma	bility (solid, gas)	:	Not applicable	
	Flamma	bility (liquids)	:	No data available	9
	Uppe	explosion limit and uppe er explosion limit / Up- lammability limit			
		er explosion limit / er flammability limit	:	No data available)
	Flash po	oint	:	No data available)
	Decomp	position temperature	:	No data available)
	рН		:	No data available	2
	Evapora	ation rate	:	No data available)
	Auto-igr	nition temperature	:	No data available)
	Viscosit Visco	y osity, kinematic	:	No data available	9
	Solubilit Wate	y(ies) er solubility	:	soluble	
	Solu	bility in other solvents	:	soluble Solvent: Ethanol	
	Partitior octanol/	n coefficient: n- /water	:	Not applicable	
	Vapour	pressure	:	No data available	9
		and / or relative densit tive density	iy :	1.09 - 1.15	
	Dens	sity	:	No data available)
	Relative	e vapour density	:	No data available)
	Explosiv	ve properties	:	Not explosive	



7.0	Revision Date: 2024/04/06		S Number: 80241-00011	Date of last issue: 2023/09/30 Date of first issue: 2019/08/23
Oxidiz	zing properties	:	The substance of	or mixture is not classified as oxidizing.
Molec	cular weight	:	No data availab	e
	le characteristics article size	:	Not applicable	
10. STABI		,		
Possi tions Condi Incom	tivity hical stability bility of hazardous reac- itions to avoid hpatible materials rdous decomposition		Stable under no Can react with s None known. Oxidizing agents	trong oxidizing agents.
produ	Cts			
expos	nation on likely routes of sure	•	Inhalation Skin contact	
			Ingestion Eye contact	
	e toxicity ful if swallowed.			
	ful if swallowed.			
Harm <u>Produ</u>	ful if swallowed.	:	Eye contact	imate: 1,952 mg/kg ion method
Harm <u>Produ</u> Acute	ful if swallowed. uct:	:	Eye contact Acute toxicity est	ion method imate: > 5 mg/l h : dust/mist
Harm <u>Produ</u> Acute	ful if swallowed. uct: oral toxicity	:	Eye contact Acute toxicity est Method: Calculat Acute toxicity est Exposure time: 4 Test atmosphere	ion method imate: > 5 mg/l h : dust/mist
Harm <u>Produ</u> Acute Acute	ful if swallowed. uct: oral toxicity inhalation toxicity		Eye contact Acute toxicity est Method: Calculat Acute toxicity est Exposure time: 4 Test atmosphere Method: Calculat	ion method imate: > 5 mg/l h :: dust/mist ion method
Harm <u>Produ</u> Acute Acute <u>Comp</u>	ful if swallowed. <u>uct:</u> oral toxicity inhalation toxicity <u>ponents:</u>		Eye contact Acute toxicity est Method: Calculat Acute toxicity est Exposure time: 4 Test atmosphere Method: Calculat Method: Calculat	tion method timate: > 5 mg/l h t dust/mist tion method cetate: 240 mg/kg
Harm <u>Produ</u> Acute Acute <u>Comp</u>	ful if swallowed. <u>uct:</u> oral toxicity inhalation toxicity <u>ponents:</u> um [2-[(2,6-dichlorophe		Eye contact Acute toxicity est Method: Calculat Acute toxicity est Exposure time: 4 Test atmosphere Method: Calculat	tion method timate: > 5 mg/l h t dust/mist tion method cetate: 240 mg/kg
Harm <u>Produ</u> Acute Acute <u>Comp</u> Sodiu Acute	ful if swallowed. <u>uct:</u> oral toxicity inhalation toxicity <u>ponents:</u> um [2-[(2,6-dichlorophe	e nyl	Eye contact Acute toxicity est Method: Calculat Acute toxicity est Exposure time: 4 Test atmosphere Method: Calculat Method: Calculat	tion method imate: > 5 mg/l h to dust/mist ion method cetate: 240 mg/kg 70 - 389 mg/kg 161 mg/kg
Harm <u>Produ</u> Acute Acute <u>Comp</u> Sodiu Acute	ful if swallowed. uct: oral toxicity inhalation toxicity ponents: um [2-[(2,6-dichlorophe oral toxicity toxicity (other routes of	e nyl	Eye contact Acute toxicity est Method: Calculat Acute toxicity est Exposure time: 4 Test atmosphere Method: Calculat)amino]phenyl]ac LD50 (Rat): 55 - LD50 (Mouse): 1 LD50 (Rat): 97 -	tion method imate: > 5 mg/l h : dust/mist ion method cetate: 240 mg/kg 70 - 389 mg/kg 161 mg/kg e: Intravenous



ersion 0	Revision Date: 2024/04/06	SDS Number: 4780241-0001	Date of last issue: 2023/09/30 Date of first issue: 2019/08/23
П		Application	Route: Intravenous
	yl alcohol:		
Acute	e oral toxicity	: LD50 (Rat):	1,620 mg/kg
Acute	e inhalation toxicity		
Skin	corrosion/irritation		
Not c	lassified based on av	ailable information.	
Com	ponents:		
	um [2-[(2,6-dichlorop	ohenyl)amino]phei	nyl]acetate:
Resu	llt	: irritating	
Benz	yl alcohol:		
Spec	•	: Rabbit	
Meth Resu		: OECD Test : No skin irrit	Guideline 404
Not c <u>Com</u>	ous eye damage/eye elassified based on ava ponents: um [2-[(2,6-dichlorop Ilt	ailable information.	
Benz	yl alcohol:		
Spec		: Rabbit	
Resu Meth			eyes, reversing within 21 days Guideline 405
Resp	biratory or skin sensi	tisation	
•••••	sensitisation	ailable information.	
-	biratory sensitisation		
Not c	iratory sensitisation classified based on available		
Not c <u>Com</u>	biratory sensitisation classified based on ava ponents:		
Not c <u>Com</u>	Diratory sensitisation Classified based on ava <u>ponents:</u> :yl alcohol:		



ersion .0	Revision Date: 2024/04/06	SDS Number: 4780241-00011	Date of last issue: 2023/09/30 Date of first issue: 2019/08/23
Metho Resu		: OECD Test Gu : negative	ideline 406
	n cell mutagenicity lassified based on ava	ailable information.	
Com	ponents:		
Sodiu	um [2-[(2,6-dichlorop	henyl)amino]phenyl]	acetate:
	toxicity in vitro		terial reverse mutation assay (AMES)
		Test Type: Mou Result: negative	
Geno	toxicity in vivo	: Test Type: Chro Species: CHO Result: negative	omosomal aberration
Benz	yl alcohol:		
Geno	toxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
Geno	toxicity in vivo	cytogenetic ass Species: Mouse	e ite: Intraperitoneal injection
Not c	i nogenicity lassified based on ava ponents:	ailable information.	
		ohenyl)amino]phenyl]	acetate:
Spec Appli	ies cation Route	: Rat : Oral	
	sure time	: 2 Years : negative	
Spec		: Mouse	
	cation Route sure time	: Oral : 2 Years	
Resu		: negative	
Benz	yl alcohol:		
Spec	ios	: Mouse	
Appli	cation Route sure time	: Ingestion : 103 weeks	



Diclofenac Formulation

rsion	Revision Date: 2024/04/06		S Number: 80241-00011	Date of last issue: 2023/09/30 Date of first issue: 2019/08/23
Resul	t	:	negative	
-	oductive toxicity acted of damaging the	unbo	rn child	
•	oonents:			
Sodiu	ım [2-[(2,6-dichloroph	enyl)amino]phenyl]a	icetate:
Effect	s on fertility	:	Test Type: Ferti Species: Rat, m Application Rou Fertility: NOAEL Result: No effect	ale and female te: Oral .: 4 mg/kg body weight
Effect: ment	s on foetal develop-	:		
Repro sessm	ductive toxicity - As- nent	:	Suspected of da	amaging the unborn child.
Benzy	/l alcohol:			
Effect	s on fertility	:	Species: Rat Application Rou Result: negative	
Effect: ment	s on foetal develop-	:	Test Type: Emb Species: Mouse Application Rou Result: negative	te: Ingestion

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs (Gastrointestinal tract, Blood, lymphatic system, Liver, Prostate) through prolonged or repeated exposure.

Components:

Sodium [2-[(2,6-dichlorophenyl)amino]phenyl]acetate:

Target Organs

: Gastrointestinal tract, Blood, lymphatic system, Liver, Prostate



Diclofenac Formulation

Version 7.0	Revision Date: 2024/04/06	SDS Number: 4780241-00011	Date of last issue: 2023/09/30 Date of first issue: 2019/08/23
Asses	ssment	: Causes dan exposure.	nage to organs through prolonged or repeated
-	ated dose toxicity		
	<u>oonents:</u> ım [2-[(2,6-dichloror	henvl)aminolpher	vl]acetate:
Speci LOAE Applic Expos	es	: Rat : 0.25 mg/kg : Oral : 98 w	inal tract, Blood, lymphatic system, Liver, Prostate
Expos		: Dog : 1 mg/kg : Oral : 12 w : Blood	
Expos	EL EL cation Route sure time t Organs	: Baboon : 0.5 mg/kg : 5 mg/kg : Oral : 52 w : Gastrointest : constipation	inal tract, Blood , Diarrhoea
Benz	yl alcohol:		
Speci NOAE Applic	es EL cation Route sure time	: 28 Days	lust/mist/fume) Guideline 412

Not classified based on available information.

Experience with human exposure

Components:

Sodium [2-[(2,6-dichlorophenyl)amino]phenyl]acetate:

Ingestion	:	Symptoms: Abdominal pain, Diarrhoea, constipation, heart- burn, Ulceration, Dizziness, Headache, Breathing difficulties, Rash



Version Revision Date: SDS Number: Date of last issue: 2023/09/30 7.0 2024/04/06 4780241-00011 Date of first issue: 2019/08/23	Version 7.0	Revision Date: 2024/04/06	SDS Number: 4780241-00011	Date of last issue: 2023/09/30 Date of first issue: 2019/08/23	
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12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Sodium [2-[(2,6-dichlorophenyl)amino]phenyl]acetate:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 166.6 mg/l Exposure time: 96 h Method: OECD Test Guideline 203	
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 80.1 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 71.9 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
		NOEC (Pseudokirchneriella subcapitata (green algae)): 49.2 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
Toxicity to fish (Chronic tox- icity)	:	NOEC (Pimephales promelas (fathead minnow)): 0.32 mg/l Exposure time: 32 d Method: OECD Test Guideline 210	
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 10 mg/l Exposure time: 21 d Method: OECD Test Guideline 211	
Benzyl alcohol:			
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 460 mg/l Exposure time: 96 h	
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
		NOEC (Pseudokirchneriella subcapitata (green algae)): 310 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	



version 7.0	Revision Date: 2024/04/06	-	DS Number: 80241-00011	Date of last issue: 2023/09/30 Date of first issue: 2019/08/23
	ity to daphnia and other tic invertebrates (Chron- icity)	:	Exposure time: 2	magna (Water flea)): 51 mg/l 1 d est Guideline 211
Persi	istence and degradabil	ity		
<u>Com</u>	ponents:			
Benz	yl alcohol:			
Biode	egradability	:	Result: Readily b Biodegradation: Exposure time: 14	92 - 96 %
Bioa	ccumulative potential			
Com	ponents:			
Sodiu	um [2-[(2,6-dichlorophe	ny)amino]phenyl]ac	etate:
	ion coefficient: n- iol/water	:	log Pow: 4.51	
Partit	yl alcohol: ion coefficient: n- iol/water	:	log Pow: 1.05	
	lity in soil ata available			
	rdous to the ozone layo	ər		
	r adverse effects ata available			
3. DISPC	SAL CONSIDERATION	IS		
Disp	osal methods			
-	e from residues	:		ordance with local regulations.
Conta	aminated packaging	:	Empty containers dling site for recy	f waste into sewer. s should be taken to an approved waste har cling or disposal. pecified: Dispose of as unused product.
4. TRAN	SPORT INFORMATION			
Interi	national Regulations			
UNR	-			
LINE -			March and Provide La	

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable



/ersion 7.0	Revision Date: 2024/04/06	SDS Number: 4780241-00011	Date of last issue: 2023/09/30 Date of first issue: 2019/08/23
Label	ng group s onmentally hazardous	: Not applicable : Not applicable : no	
Class Subsi Packi Label Packi aircra Packi) No. er shipping name diary risk ng group s ng instruction (cargo	 Not applicable 	
UN nu Prope Class Subsi Packi Label EmS	diary risk ng group s	 Not applicable 	
	sport in bulk according		POL 73/78 and the IBC Code
	nal Regulations to section 15 for specifi	c national regulation.	
•	ial precautions for use pplicable	r	
5. REGU	LATORY INFORMATIO	N	
Relat	ed Regulations		
	Service Law pplicable to dangerous r	naterials / designated	I flammables.
Not a	nical Substance Contro pplicable for Specified C ssment Chemical Substa	hemical Substance, N	Monitoring Chemical Substance and Priority
Indus	strial Safety and Health	Law	

Harmful Substances Prohibited from Manufacture

Not applicable

Harmful Substances Required Permission for Manufacture Not applicable



0	Revision Date: 2024/04/06	SDS Number: 4780241-00011	Date of last issue: 202 Date of first issue: 202	
Not a Circu on Ex	pplicable		ealth s having Mutagenicity - <i>I</i>	Annex 2: Information
Circu on No	llar concerning Infor otified Substances h		s having Mutagenicity -	Annex 1: Information
	pplicable			
	tances Subject to be			
	e 57-2 (Enforcement (mical name	Jrder Table 9)	Concentration (%)	Remarks
a la	zyl alcohol		>0 - <10	-
11		Indicated Names		
	tances Subject to be			
	<u>e 57 (Enforcement Or</u> mical name			Remarks
-	yl alcohol			-
	pplicable nance on Prevention	of Lead Poisoning		
	pplicable			
Not a Ordir		of Tetraalkyl Lead P	oisoning	
Not a Ordir Not a	nance on Prevention	-	-	
Not a Ordir Not a Ordir	nance on Prevention pplicable nance on Prevention	of Tetraalkyl Lead P of Organic Solvent F	-	
Not a Ordir Not a Ordir Not a Enfor	nance on Prevention pplicable nance on Prevention pplicable rcement Order of the	of Organic Solvent F	-	table 1 (Dangerous
Not a Ordin Not a Ordin Not a Enfor Subs	nance on Prevention pplicable nance on Prevention pplicable	of Organic Solvent F	Poisoning	table 1 (Dangerous
Not a Ordin Not a Ordin Not a Enfor Subs Not a Poiso	nance on Prevention pplicable nance on Prevention pplicable rcement Order of the tances) pplicable	of Organic Solvent F	Poisoning d Health Law - Attached	table 1 (Dangerous
Not a Ordin Not a Not a Enfor Subs Not a Poiso Not a Not a Act o	nance on Prevention pplicable nance on Prevention pplicable rcement Order of the tances) pplicable onous and Deleterio pplicable on Confirmation, etc.	of Organic Solvent F e Industrial Safety an us Substances Contr of Release Amounts	Poisoning d Health Law - Attached	ubstances in the En-
Not a Ordin Not a Not a Enfor Subs Not a Poiso Not a Act o viron Not a High	nance on Prevention pplicable nance on Prevention pplicable rcement Order of the tances) pplicable onous and Deleterio pplicable on Confirmation, etc. ment and Promotion	of Organic Solvent F e Industrial Safety an us Substances Contr of Release Amounts n of Improvements to	Poisoning d Health Law - Attached ol Law	ubstances in the En-



Version 7.0	Revision Date: 2024/04/06		DS Number: /80241-00011	Date of last issue: 2023/09/30 Date of first issue: 2019/08/23		
	I Safety Law					
Not re	gulated as a dangerous	s go	od			
Aviati	on Law					
Not re	gulated as a dangerous	s go	od			
Marin	e Pollution and Sea D	isas	ster Prevention etc	: Law		
Bulk tr	ansportation	:	Noxious liquid sul	ostance(Category Z)		
Pack t	ransportation	:	Not classified as	marine pollutant		
Narco	tics and Psychotropic	cs C	Control Act			
	tic or Psychotropic Raw	/ Ma	iterial (Export / Imp	ort Permission)		
Specif	Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable					
Waste	Waste Disposal and Public Cleansing Law					
Indust	rial waste					
The co	omponents of this pro	oduo	ct are reported in t	the following inventories:		
AICS		:	not determined			
DSL		:	not determined			
IECSC	2	:	not determined			

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 abbreviation	ons	
JP OEL JSOH	:	Japan. The Japan Society for Occupational Health. Recommendation of Occupational Exposure Limits
JP OEL JSOH / OEL-C	:	Occupational Exposure Limit-Ceiling

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



Diclofenac Formulation

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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

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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