

Clanobutin Formulation

Vers 2.1	sion	Revision Date: 2023/09/30		S Number: 7479-00010	Date of last issue: 2023/04/04 Date of first issue: 2018/11/09
1. P	RODUC	T AND COMPANY IDE	ENT	IFICATION	
	Produc	t name	:	Clanobutin Form	ulation
		acturer or supplier's d			
	Compa	ny	:	MSD	
	Addres	S	:	126 E. Lincoln Av Rahway, New Je	venue rsey U.S.A. 07065
	Teleph	one	:	908-740-4000	
	Emerge	ency telephone number	:	1-908-423-6000	
	E-mail	address	:	EHSDATASTEW	ARD@msd.com
	Recom	mended use of the ch	nemi	ical and restrictio	ons on use
	Recom	mended use tions on use	:	Veterinary produc Not applicable	
2. H	AZARD	S IDENTIFICATION			
		lassification			
		prosion/irritation	:	Category 2	
	Serious tation	s eye damage/eye irri-	:	Category 2B	
		bel elements pictograms	:	(!)	

Hazard statements : H315 + H320 Causes skin and eye irritation.

Precautionary statements

Signal word

2 **Prevention:**

: Warning

P264 Wash skin thoroughly after handling. P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and



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easy to do. Continue rinsing. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse.

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 10.64 %

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)
Clanobutin	30544-61-7	>= 10 -< 20

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.
In case of skin contact	:	Get medical attention if symptoms occur. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Causes skin and eye irritation.
Protection of first-aiders	:	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).



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Notos	to physician			atically and supportively
		•	near symptom	atically and supportively.
5. FIREFIC	GHTING MEASURES			
Suitat	ble extinguishing media	:	Water spray Alcohol-resistar Carbon dioxide Dry chemical	
Unsui media	table extinguishing	:	None known.	
	fic hazards during fire-	:		orm explosive mixtures with air. mbustion products may be a hazard to health.
Hazar ucts	dous combustion prod-	:	Carbon oxides Nitrogen oxides	s (NOx)
Speci ods	fic extinguishing meth-	:	cumstances and Use water sprag	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
	al protective equipment efighters	:	In the event of f	fire, wear self-contained breathing apparatus. rotective equipment.
6. ACCIDE	ENTAL RELEASE MEA	SUF	RES	
tive ea	nal precautions, protec- quipment and emer- procedures	:	Follow safe har	rotective equipment. Indling advice (see section 7) and personal pro- ent recommendations (see section 8).
Enviro	onmental precautions	:	Prevent further Prevent spread barriers). Retain and disp	o the environment. leakage or spillage if safe to do so. ing over a wide area (e.g. by containment or oi pose of contaminated wash water. s should be advised if significant spillages ained.
	ods and materials for inment and cleaning up	:	For large spills, ment to keep m be pumped, sto Clean up remai bent. Local or nationa posal of this ma employed in the mine which reg Sections 13 and	ert absorbent material. provide dyking or other appropriate contain- naterial from spreading. If dyked material can pre recovered material in appropriate container. ning materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items e cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements.



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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 get on skin or clothing. Avoid inhalation of vapour or mist. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labelled containers.
Materials to avoid	:	Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control

Components with workplace control parameters						
Components	CA	S-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
Clanobutin	30	544-61-7	TŴA	0.3 mg/m3 (OEB 2)	Internal	
Engineering measures	te le: Al de pr	chnologies t ss quick cor l engineerin esign and op otect produc	to control airborn nections). g controls shoul perated in accorn cts, workers, an	controls and manufac ne concentrations (e. Id be implemented by dance with GMP prind d the environment. require special conta	g., drip- facility ciples to	
Personal protective equip	ment					
Respiratory protection Filter type Hand protection Material	su or : Pa	 If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type Chemical-resistant gloves 				
Eye protection	lf m W	: 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			ere is a	



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	and body protection ene measures	: If exposure to o eye flushing sy ing place. When using do Wash contamir The effective o engineering co appropriate deg	or laboratory coat. chemical is likely during typical use, provide stems and safety showers close to the work- not eat, drink or smoke. nated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the rative controls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	93.4 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available

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 soluble No data available Not applicable No data available
No data availableNot applicable
: Not applicable
: No data available
: No data available
: No data available
: Not explosive
: The substance or mixture is not classified as oxidizing
: No data available
: Not applicable
 Not classified as a reactivity hazard. Stable under normal conditions. Vapours may form explosive mixture with air.
Can react with strong oxidizing agents.
None known.Oxidizing agents
 No hazardous decomposition products are known.
ON
: Inhalation Skin contact Ingestion Eye contact
le information.
: LD50 (Rat): > 2,000 mg/kg
· 1 D50 (Pat): 570 ma/ka
: LD50 (Rat): 570 mg/kg

SDS Number:



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admin	istration)	Application Rou	ute: Intravenous			
	corrosion/irritation es skin irritation.					
<u>Comp</u>	oonents:					
Clano Result	b utin: t	: irritating				
	u s eye damage/eye i es eye irritation.	rritation				
Comp	oonents:					
Clano Result	butin: t	: Severe irritation	1			
Respi	ratory or skin sensit	tisation				
	sensitisation assified based on ava	ilable information.				
-	ratory sensitisation assified based on ava	ilable information.				
	cell mutagenicity assified based on ava	ilable information.	information.			
	n ogenicity assified based on ava	ilable information.				
-	oductive toxicity					
	assified based on ava	ilable information.				
	oonents:					
	butin: s on foetal develop-	: Test Type: Dev Species: Rat Application Rou Developmental				
		Test Type: Dev Species: Rabbi Application Rou Developmental	t			

STOT - single exposure

Not classified based on available information.



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<u>Comp</u>	oonents:		
Clano	butin:		
Expos	sure routes sment	: Inhalation : May cause respir	atory irritation.
	- repeated exposure assified based on availa	ble information.	
Repea	ated dose toxicity		
Comp	oonents:		
Clano	butin:		
Expos	L ation Route sure time t Organs	 Dog 500 mg/kg Oral 4 Weeks Central nervous s Tremors, Disorier 	
Expos	EL	: Rat : 300 mg/kg : 500 mg/kg : Oral : 6 Months : Kidney, Liver, Thy	yroid
Expos Targe	EL	: Dog : 300 mg/kg : 600 mg/kg : Oral : 6 Months : Kidney, Liver, Thy	yroid
-	assified based on availa	ble information.	
2. ECOLO	DGICAL INFORMATION	N	
_			
Ecoto	-		
<u>Comp</u>	oonents:		
Clano	butin:		
Ecoto	oxicology Assessment		
Acute	aquatic toxicity	: Toxic effects can	not be excluded



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	i stence and degradal ata available	oility		
	ccumulative potentia ata available	I		
	lity in soil ata available			
	r adverse effects ata available			
13. DISPO	SAL CONSIDERATION	ONS		
Disp	osal methods			
Wast	e from residues			of waste into sewer. ccordance with local regulations.
Conta	aminated packaging	: En dlir	 Empty containers should be taken to an approved waste I dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 	
14. TRAN	SPORT INFORMATIC	N		
Inter	national Regulations			
UNR		N	t ann llaab la	

UN number	:	Not applicable
Proper shipping name	÷	Not applicable
Class	:	Not applicable
Subsidiary risk		Not applicable
Packing group		Not applicable
Labels	:	Not applicable
IATA-DGR		
UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo aircraft)	:	Not applicable
Packing instruction (passen- ger aircraft)	:	Not applicable
IMDG-Code		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable



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Marin	e pollutant	: Not applicable	
	-		RPOL 73/78 and the IBC Code
	pplicable for product	-	
Spec	ial precautions for u	ıser	
Not a	pplicable		
5. REGU	LATORY INFORMA	TION	
Safet ture	y, health and envirc	onmental regulations/l	egislation specific for the substance or m
ter of	Industry Regulatio		ER/4/2013 concerning the Revision of Min 2009 concerning Globally Harmonized Sy als.
	lation of the Ministe rdous to Health	er of Health No. 472 of	1996 on the Safeguarding of Substances
Haza	rdous substances tha	at must be registered	: Not applicable
Gove stanc	-	No. 74 of 2001 on the	Management of Hazardous and Toxic Sub
Haza	rdous substances ap	proved for use	: Not applicable
Prohi	bited substances		: Not applicable
Restr	icted substances		: Not applicable
Regu Mate		y of Trade No. 7 of 202	22 on Distribution and Control of Hazardo
	of hazardous materia ol, Annex I	als subject to distributior	n and : Not applicable
	of hazardous materia ol, Annex II	als subject to distributior	n and : Not applicable
	•	• •	n the following inventories:
AICS		: not determined	
		: not determined	
DSL			
DSL IECS	с	: not determined	
IECS	C R INFORMATION	: not determined	
IECS		: not determined : 2023/09/30	



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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/

Date format : yyyy/mm/dd

Full text of other abbreviations

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

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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