

# Clanobutin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
3.4	28.09.2024	9374096-00008	Date of first issue: 27.08.2021

### **SECTION 1:** Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier Trade name	:	Clanobutin Formulation
1.2	Relevant identified uses of the	e s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Veterinary product
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the s	af	ety data sheet
	Company	:	MSD
			Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom
	Telephone	:	+1-908-740-4000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

### **1.4 Emergency telephone number**

+1-908-423-6000

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Skin irritation, Category 2 Eye irritation, Category 2 H315: Causes skin irritation. H319: Causes serious eye irritation.

### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms

Signal word



t

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Hazaı	d statements	:	H315 H319		es skin irritation. es serious eye irritation.
Preca	utionary statements	:	<b>Prevention</b> P264 P280	Wash	skin thoroughly after handling. protective gloves/ eye protection/ face pro- n.
			Response:		
			P332 + P31	3 If attent	skin irritation occurs: Get medical advice/ ion.
			P337 + P31	3 If attent	eye irritation persists: Get medical advice/ ion.
			P362 + P36		ke off contaminated clothing and wash it e reuse.

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

### 2.3 Other hazards

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

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

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Clanobutin	30544-61-7 250-232-3	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	>= 10 - < 20

For explanation of abbreviations see section 16.

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

#### 4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).



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If	f inhale	<sup>2</sup> d		If inhaled, remove	to froch air	
11	Innaie	eu	•	,	tion if symptoms occur.	
Ir	n case	of skin contact	:	for at least 15 mir and shoes. Get medical atter Wash clothing be		
Ir	n case	of eye contact	:	for at least 15 mir	ove contact lens, if worn.	
lf	f swallo	owed	:	Get medical atten	NOT induce vomiting. ition if symptoms occur. oughly with water.	
	4.2 Most important symptoms and effects, both acute and delayed					
R	Risks		:	Causes skin irrita Causes serious e		
				P I		
	reatm	-	meo :		a special treatment needed cally and supportively.	
SECT	SECTION 5: Firefighting measures					
E 4 E.		iekine medie				
	-	<b>ishing media</b> e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical		
	Jnsuita nedia	ble extinguishing	:	None known.		
5.2 Sp	pecial	hazards arising from	the	e substance or mi	xture	
	Specific ighting	c hazards during fire-	:		n explosive mixtures with air. oustion products may be a hazard to health.	
	Hazard ucts	ous combustion prod-	:	Carbon oxides Nitrogen oxides (l	NOx)	
5.3 Ac	dvice	for firefighters				
		protective equipment ighters	:		e, wear self-contained breathing apparatus. tective equipment.	

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Specit ods	fic extinguishing meth-	cumstances an Use water spra	ng measures that are appropriate to local cir- d the surrounding environment. y to cool unopened containers. haged containers from fire area if it is safe to do

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

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. If spillage enters rivers or watercourses, inform the Environ- ment Agency (emergency telephone number 0800 807060).

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

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

### 6.4 Reference to other sections

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

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

### 7.1 Precautions for safe handling

Technical measures	: See Engineering measures under EXPOSURE
	CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: Use only with adequate ventilation.
Advice on safe handling	: Do not get on skin or clothing.
	Avoid inhalation of vapour or mist.

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Hyg	giene measures	<ul> <li>Do not swallow.</li> <li>Do not get in eyes.</li> <li>Wash skin thoroughly after handling.</li> <li>Handle in accordance with good industrial hygiene and safe practice, based on the results of the workplace exposure as sessment</li> <li>Take care to prevent spills, waste and minimize release to renvironment.</li> <li>If exposure to chemical is likely during typical use, provide flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contain nated clothing before re-use.</li> <li>The effective operation of a facility should include review of engineering controls, proper personal protective equipment appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.</li> </ul>	
7.2 Con	ditions for safe storage,	including any inc	ompatibilities
	quirements for storage as and containers		rly labelled containers. Store in accordance with national regulations.
Adv	vice on common storage	: Do not store v Strong oxidizi Gases	vith the following product types: ng agents
•	<b>cific end use(s)</b> ecific use(s)	: No data availa	ıble

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

### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Clanobutin	30544-61-7	TWA	0.3 mg/m3 (OEB 2)	Internal

#### 8.2 Exposure controls

### **Engineering measures**

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

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.

### Personal protective equipment

:

Eye/face protection

Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.



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Hand protection Material		<ul><li>Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.</li><li>Chemical-resistant gloves</li></ul>			
Skin and body protection Respiratory protection Filter type		: If adequate loc sure assessme ommended gui	or laboratory coat. al exhaust ventilation is not available or expo- ent demonstrates exposures outside the rec- delines, use respiratory protection. uld conform to BS EN 143 oe (P)		

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

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

Appearance Colour Odour Odour Threshold	:	liquid No data available No data available 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
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
Solubility(ies) Water solubility Solubility in other solvents	:	soluble No data available
Partition coefficient: n-	:	Not applicable

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octanol/water Auto-ignition temperature			No data available		
E	Decomp	osition temperature	:	No data available	9
١	Viscosity Visco	y osity, kinematic	:	No data available	e
Explosive properties		:	Not explosive		
Oxidizing properties		:	The substance o	r mixture is not classified as oxidizing.	
<b>9.2 Other information</b> Flammability (liquids)		:	Not applicable		
Ν	Molecular weight		:	No data available	e
Particle size		:	Not applicable		

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

### **10.1 Reactivity** Not classified as a reactivity hazard. **10.2 Chemical stability** Stable under normal conditions. 10.3 Possibility of hazardous reactions Hazardous reactions Vapours may form explosive mixture with air. : Can react with strong oxidizing agents. 10.4 Conditions to avoid Conditions to avoid : None known. 10.5 Incompatible materials Materials to avoid : Oxidizing agents **10.6 Hazardous decomposition products** No hazardous decomposition products are known. **SECTION 11: Toxicological information** 11.1 Information on toxicological effects

Information on likely routes of : Inhalation exposure Skin contact Ingestion Eye contact

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Acut	e toxicity			
Not c	lassified based on availa	ble	information.	
<u>Com</u>	ponents:			
	obutin:			
Acute	e oral toxicity	:	LD50 (Rat): > 2,0	00 mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Rat): 570 r Application Route	
-	corrosion/irritation es skin irritation.			
Com	ponents:			
Clane	obutin:			
Resu	lt	:	irritating	
	ous eye damage/eye irri es serious eye irritation.	tati	on	
<u>Com</u>	ponents:			
Clane	obutin:			
Resu	lt	:	Severe irritation	
Resp	iratory or skin sensitis	atic	n	
-	sensitisation lassified based on availa	ble	information.	
-	iratory sensitisation			
	lassified based on availa	ble	information.	
	n cell mutagenicity lassified based on availa	ble	information	
	inogenicity			
	lassified based on availa	ble	information.	
Repr	oductive toxicity			
Not c	lassified based on availa	ble	information.	
Com	ponents:			
Clane	obutin:			
Effec ment	ts on foetal develop-	:	Test Type: Develo Species: Rat Application Route Developmental To	
			Test Type: Develo	

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Species: Rabbit Application Route: Oral Developmental Toxicity: NOAEL: 250 mg/kg body weight

### STOT - single exposure

Not classified based on available information.

### **Components:**

#### Clanobutin:

Exposure routes	:	Inhalation
Assessment	:	May cause respiratory irritation.

### STOT - repeated exposure

Not classified based on available information.

### Repeated dose toxicity

### Components:

#### Clanobutin:

Species LOAEL Application Route Exposure time Target Organs Symptoms	: : : : : : : : : : : : : : : : : : : :	Dog 500 mg/kg Oral 4 Weeks Central nervous system Tremors, Disorientation
Species NOAEL LOAEL Application Route Exposure time Target Organs	:	Rat 300 mg/kg 500 mg/kg Oral 6 Months Kidney, Liver, Thyroid
Species NOAEL LOAEL Application Route Exposure time Target Organs	: : : : : : : : : : : : : : : : : : : :	Dog 300 mg/kg 600 mg/kg Oral 6 Months Kidney, Liver, Thyroid

### Aspiration toxicity

Not classified based on available information.



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### **SECTION 12: Ecological information**

### 12.1 Toxicity

•		
Components:		
Clanobutin:		
Ecotoxicology Assessment		
Acute aquatic toxicity	:	Toxic effects cannot be excluded
Chronic aquatic toxicity	:	Toxic effects cannot be excluded
12.2 Persistence and degradabil	ity	
No data available		
<b>12.3 Bioaccumulative potential</b> No data available		
12.4 Mobility in soil		
No data available		
12.5 Results of PBT and vPvB as	se	ssment
Product:		
Assessment	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Other adverse effects		
Product:		
Endocrine disrupting poten- tial	:	This substance/mixture does not contain components consid- ered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

### **SECTION 13: Disposal considerations**

13.1 Waste treatment methods			
Product	<ul> <li>Dispose of in accordance with local regulations.</li> <li>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.</li> <li>Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.</li> <li>Do not dispose of waste into sewer.</li> </ul>		
Contaminated packaging	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.		

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### **SECTION 14: Transport information**

### 14.1 UN number

	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.2	2 UN proper shipping name		
	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.3	3 Transport hazard class(es)		
	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.4	Packing group		
	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	IATA (Cargo)	:	Not regulated as a dangerous good
	IATA (Passenger)	:	Not regulated as a dangerous good
14.	5 Environmental hazards		
			•

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

# **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**Remarks: Not applicable for product as supplied.



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

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	: Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
	Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	: Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	: Not applicable
Regulation (EC) on substances that deplete the ozone layer	: Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	: Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	: Not applicable
Control of Major Accident Hazards Regulations 2015 (CO Not applicable	MAH)

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

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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

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

STOT SE

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<b>Full t</b> e H315	ext of H-Statements	: Ca	auses skin irrita	ition.

H319	:	Causes serious eye irritation.		
H335	:	May cause respiratory irritation.		
Full text of other abbreviations				
Eye Irrit.	:	Eye irritation		
Skin Irrit.	:	Skin irritation		

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - 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; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Specific target organ toxicity - single exposure

### Further information

rnal technical data, data from raw material SDSs, OECD nem Portal search results and European Chemicals Agen- http://echa.europa.eu/
http://echa.eu/opa.eu/

Classification of the mixture:		Classification procedure:
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method

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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.

GB / EN