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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 25.09.2018

Version number 1

Revision: 25.09.2018

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

· 1.1 Product identifier

· Product name: Saflufenacil

- · Part number: DRE-C16901600
- · CAS Number:
- 372137-35-4
- \cdot 1.2 Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.
- · Application of the substance / the mixture Reference material for laboratory use only
- \cdot 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: LGC Limited Queens Road Teddington Middlesex TW11 0LY UNITED KINGDOM

Tel :+44 (0) 20 8943 7000 Fax :+44 (0) 20 8943 2767 eMail : gb@lgcstandards.com Web : www.lgcstandards.com

Further information obtainable from: Product safety department eMail : sds-request@lgcgroup.com
1.4 Emergency telephone number: +44 (0) 20 8943 7000 (Monday - Friday : 8am - 5pm)

SECTION 2: Hazards identification

- \cdot 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS09 environment

Aquatic Acute 1H400Very toxic to aquatic life.Aquatic Chronic 1H410Very toxic to aquatic life with long lasting effects.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation. • *Hazard pictograms*



· Signal word Warning

• Hazard statements

H410 Very toxic to aquatic life with long lasting effects.

• *Precautionary statements* P273 Avoid release to the environment. P391 Collect spillage.

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(Contd. from page 1) *P501 Dispose of contents/container in accordance with local/regional/national/international regulations.* • 2.3 Other hazards

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterisation: Substances

- · CAS No. Description
- 372137-35-4 Saflufenacil
- · Identification number(s) None
- Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

• 4.1 Description of first aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Rinse mouth. Do not induce vomiting.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

• 6.3 Methods and material for containment and cleaning up: Pick up mechanically.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling Store in cool, dry place in tightly closed receptacles. • Information about fire - and explosion protection: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

- · Requirements to be met by storerooms and receptacles:
- Store in a cool location.

Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

Keep container in a well-ventilated place. Keep away from sources of ignition and heat.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: None.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- · Additional information: Lists used were valid at the time of SDS preparation.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.
- Protection of hands:
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

- · Material of gloves Fluorocarbon rubber (Viton)
- · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection: Safety glasses

9.1 Information on basic physical and a	chemical properties	
General Information		
Appearance: Form:	Solid	
Colour:	Off white	
Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/freezing point:	114 °C	
Initial boiling point and boiling range	e: Not determined.	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not determined.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Not determined.	
Explosive properties:	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not applicable.	
Density at 20 °C:	1.6 g/cm ³	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with	Acetone, Ethyl acetate, Methanol	
water at 20 °C:	2.1 g/l	
Partition coefficient: n-octanol/water:	2.6 logP	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	

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SECTION 10: Stability and reactivity

- · 10.1 Reactivity Stable under normal conditions.
- · 10.2 Chemical stability Stable under normal conditions.
- *Thermal decomposition / conditions to be avoided: Formation of toxic gases is possible during heating or in case of fire.*
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.

• **10.4 Conditions to avoid** *Heat.*

Sources of ignition

- 10.5 Incompatible materials: Strong oxidizing agents.
- · 10.6 Hazardous decomposition products:

Formation of toxic gases is possible during heating or in case of fire. Carbon monoxide and carbon dioxide Sulphur oxides (SOx) Nitrogen oxides (NOx) Hydrogen chloride (HCl) Hydrogen fluoride (HF)

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:				
Oral	LD50	>2000 mg/kg (rat)		
Dermal	LD50	>2000 mg/kg (rat)		
Inhalative	LC50/4 h	>2000 mg/kg (rat) >2000 mg/kg (rat) >5.3 mg/l (rat)		

· Primary irritant effect:

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- $\cdot \textit{Reproductive toxicity Based on available data, the classification criteria are not met.}$
- $\cdot \textit{STOT-single exposure Based on available data, the classification criteria are not met.}$
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

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12.1 Toxic	ity
Aquatic to:	xicity:
EC50/48 h	>100 mg/l (daphnia)
LC50/96 h	>120 mg/l (fish)
12.2 Persis	tence and degradability No further relevant information available.
	cumulative potential No further relevant information available.
12.4 Mobil	lity in soil No further relevant information available.
Ecotoxicol	logical effects:
Remark: T	Toxic for fish
Additional	ecological information:
General no	otes:
Water hazo	urd class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not alle	ow product to reach ground water, water course or sewage system, even in small quantities.
Danger to	drinking water if even extremely small quantities leak into the ground.
Also poiso	nous for fish and plankton in water bodies.
Toxic for a	quatic organisms
12.5 Resul	ts of PBT and vPvB assessment
PBT: Not a	applicable.
vPvB: Not	applicable.
12.6 Other	adverse effects No further relevant information available.

•

• 13.1 Waste treatment methods

· Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. • *European waste catalogue*

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

· Uncleaned packaging:

• Recommendation: Dispose of in accordance with national regulations.

SECTION 14: Transport information		
· 14.1 UN-Number		
· ADR, IMDG, IATA	UN3077	
· ADR	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE	
	SOLID, N.O.S. (Saflufenacil)	
·IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE	
	SOLID, N.O.S. (Saflufenacil), MARINE POLLUTANT	
·IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE	
	SOLID, N.O.S. (Saflufenacil)	



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· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	9 Miscellaneous dangerous substances and articles.
· Label	9
· 14.4 Packing group	
· ADR, IMDĞ, IATA	III
· 14.5 Environmental hazards:	
• Marine pollutant:	Yes (P)
~	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
\cdot Special marking (IATA):	Symbol (fish and tree)
\cdot 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances an
	articles.
· Danger code (Kemler):	90
· EMS Number:	F-A,S-F
· 14.7 Transport in bulk according to Ann	ex II of
Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
\cdot Limited quantities (LQ)	5 kg
· Transport category	3
• Tunnel restriction code	Ε
· UN "Model Regulation":	UN3077, ENVIRONMENTALLY HAZARDOU SUBSTANCE, SOLID, N.O.S. (Saflufenacil), 9, III

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

 \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t

 \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular (Contd. on page 8)

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purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association P: Marine Pollutant GHS: Globally Harmonised System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Sources Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition,

IUCLID.