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

Printing date 04.03.2019

Version number 1

Revision: 04.03.2019

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

· 1.1 Product identifier

- · Product name: Azaconazole 10 µg/mL in Acetonitrile
- Part number: DRE-L10339000AL
- 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

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

GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H312 Harmful in contact with skin.
Acute Tox. 4 H332 Harmful if inhaled.
Eye Irrit. 2 H319 Causes serious eye irritation.

· 2.2 Label elements

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

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



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Product name: Azaconazole 10 µg/mL in Acetonitrile

Signal word	
Hazard-deter Acetonitrile	mining components of labelling:
Hazard states	ments
H225	Highly flammable liquid and vapour.
H302+H312-	+H332 Harmful if swallowed, in contact with skin or if inhaled.
H319	Causes serious eye irritation.
Precautionar	y statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+	-P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+	-P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, ip present and easy to do. Continue rinsing.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other has	

• *PBT:* Not applicable. • *vPvB:* Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Mixture: consisting of the following components.

· Dangerous components:

Dungerous compo		
CAS: 75-05-8	Acetonitrile	>99%
EINECS: 200-835-	2 🚯 Flam. Liq. 2, H225; 🚯 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute	
RTECS: AL 770000	0 Ťox. 4, H332; Eye Irrit. 2, H319	
CAS: 60207-31-0	azaconazole (ISO)	<0.1%
EINECS: 262-102-	³ 🚯 Acute Tox. 4, H302; Acute Tox. 4, H332; Aquatic Chronic 3, H412	
RTECS: XZ460500		
· Additional informe	tion: For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

\cdot 4.1 Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may occur even after several hours; therefore medical observation for at least 48 hours after the accident is recommended.

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• After inhalation:

- Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- In case of unconsciousness place patient in recovery position for transport. Seek medical treatment.
- After skin contact: Immediately wash with water and soap and rinse thoroughly. Seek medical treatment.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:
- *Rinse mouth. Do not induce vomiting. Seek medical treatment.*
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot 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.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- \cdot 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:
- Mouth respiratory protective device.

Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- \cdot 6.1 Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- \cdot 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.

• 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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SECTION 7: Handling and storage

• 7.1 Precautions for safe handling Ensure good ventilation/extraction at the workplace. Store in cool, dry place in tightly closed receptacles.

- Prevent formation of aerosols.
 Information about fire and explosion protection: Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

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: Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

• 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:

CAS: 75-05-8 Acetonitrile

WEL Short-term value: 102 mg/m³, 60 ppm Long-term value: 68 mg/m³, 40 ppm

• Additional information: Lists used were valid at the time of SDS preparation.

- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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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 Butyl rubber, BR

- · 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.
- Eye protection:



Tightly sealed goggles

SECTION 9: Physical and chemical properties · 9.1 Information on basic physical and chemical properties · General Information · Appearance: Form: Liquid Colourless Colour: · Odour: Aromatic · Odour threshold: Not determined. · pH-value: Not determined. · Change in condition -46 °C *Melting point/freezing point:* Initial boiling point and boiling range: 81 °C $2 \ ^{\circ}C$ · Flash point: · Flammability (solid, gas): Not determined. 525 °C · Ignition temperature: · Decomposition temperature: Not determined. · Auto-ignition temperature: Product is not selfigniting. · Explosive properties: Product is not explosive. However, formation of explosive air/ vapour mixtures is possible. · Explosion limits: Lower: 3 Vol % (Contd. on page 6)



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Upper:	17 Vol %	
· Vapour pressure at 20 °C:	97 hPa	
· Density at 20 °C:	0.78219 g/cm ³	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water at 25 °C:	74 g/l	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic at 20 °C:	0.39 mPas	
Kinematic:	Not determined.	
· 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity

Stable under normal conditions.

No further relevant information available.

- 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 May form flammable/explosive vapour-air mixture.
- · 10.4 Conditions to avoid
- Sources of ignition
- Heat.

· 10.5 Incompatible materials:

- Strong oxidizing agents.
- Strong acids.
- 10.6 Hazardous decomposition products:

Formation of toxic gases is possible during heating or in case of fire.

SECTION 11: Toxicological information

·11.1 Information on toxicological effects

- Acute toxicity Harmful if swallowed, in contact with skin or if inhaled.
- · LD/LC50 values relevant for classification:
- CAS: 75-05-8 Acetonitrile

Oral (LD50) 2,460 mg/kg (rat)

· Primary irritant effect:

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

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· Serious eye damage/irritation

Causes serious eye irritation.

• Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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

 \cdot Germ cell mutagenicity Based on available data, the classification criteria are not met.

· Carcinogenicity Based on available data, the classification criteria are not met.

 $\cdot \textit{Reproductive toxicity Based on available data, the classification criteria are not met.}$

• 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.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 75-05-8 Acetonitrile

EC50/48 h 3,600 mg/l (daphnia)

LC50/96 h 1,640 mg/l (fish)

· 12.2 Persistence and degradability No further relevant information available.

• 12.3 Bioaccumulative potential No further relevant information available.

• 12.4 Mobility in soil No further relevant information available.

· Additional ecological information:

· General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

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

• 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 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.

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14.1 UN-Number	
ADR, IMDG, IATA	UN1648
ADR	1648 ACETONITRILE mixture
IMDG, IATA	ACETONITRILE mixture
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
3	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDG, IATA	II
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	33
EMS Number:	F-E,S-D
Stowage Category	B
Stowage Code	SW2 Clear of living quarters.
14.7 Transport in bulk according to Ann	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	11
Limited quantities (LQ)	IL Code E2
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
T	Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	D/E

SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t



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• Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

• 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 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 GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances 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 Flam. Liq. 2: Flammable liquids - Category 2 Acute Tox. 4: Acute toxicity - Category 4 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 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.

• Data compared to the previous version altered. All sections have been updated.