

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

1.1 Product Identifier

Identification of the mixture	AMODIA DetectLine Basic plus
REF (article number)	ADL-B02
REACH register number(s)	none
A register number for this/these substance/s is not necessary because the annual tonnage requires no registration or the substance or its use are exempt from registration.	
4x 25 pcs. Lateral-flow Dipsticks LFD12	
2x 10ml Chromatographic Buffer ChB02	

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s):	Laboratory chemical for analytical use only for trained personnel
Uses advised against:	Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

AMODIA Bioservice GmbH
Rebenring 31
D-38106 Braunschweig
Germany

Tel.: +49 (0) 531-260 17 64
Fax: +49 (0) 531-260 17 66
E-mail: info@amodia.de
Internet: <http://www.amodia.com>

Competent person responsible for the safety data sheet: Department Health, Safety and Environment
e-mail (competent person): info@amodia.de

1.4 Emergency telephone number

Name	Street	Postal Code / City	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	+44 844 892 011	

Section 2: Hazards identification

2.0 Classification of the complete product

according to Regulation (EC) No 1272/2008	Not classified as hazardous
OSHA Hazard Communication Standard 29	Not classified as hazardous
CFR 1910.1200 (HazCom 2012) / GHS	

2.1 Classification of the substance or mixture

<u>LFD12:</u>	
Product definition:	Mixture
Fraction of categorised materials:	< 0,02%
according to Regulation (EC) No 1272/2008	Not classified as hazardous
OSHA Hazard Communication Standard 29	Not classified as hazardous
CFR 1910.1200 (HazCom 2012) / GHS	

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ChB02:

Product definition:	Mixture
Fraction of categorised materials: according to Regulation (EC) No 1272/2008 OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012) / GHS	< 0,1% Not classified as hazardous Not classified as hazardous

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP) Not required

2.3 Other hazards

Possible hazardous physico-chemical impact

Complying to the safety precautions specified in this SDS no significant hazardous physico-chemical impact is expected during routine application of these materials.

Possible hazardous impact to humans and possible symptoms

Complying to the safety precautions specified in this SDS no significant impact to health is expected during routine application of these materials. No research reagents specified in this SDS is rated as hazardous as defined by OSHA (Occupational Safety and Health Administration), the kanadian WHMIS (Workplace Materials Information System) and the European Community (EC). May cause slight skin irritations.

Possible hazardous impact to the environment

Avoid release to the environment.

Results of PBT and vPvB assessment

Not applicable.

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Components

LFD12:

Description: Lateral-flow Dipstick, Analysestreifen

Hazardous ingredients:

Ingredient name:	Nitrocellulose
CAS-Nr.:	9004-70-0
Classification:	H228, P210, P280
Molecular formula:	
Pseudonym:	Cellulose nitrate, Mixed Cellulose Ester (MCE)
REACH Reg.-No.:	
EG-No.:	
Concentration: according to CLP (GHS):	< 1 mg per lateral-flow dipstick / < 0,1 % total weight of a lateral-flow dipstick The criteria for a classification are not met due to the small proportion of weight of the lateral-flow strip.

ChB02:

Description: Chromatographic Buffer, Laboratory reagent

Hazardous ingredients:

Ingredient name:	Natriumazide
CAS-No.:	26628-22-8
Classification:	No criteria for classification or not required, respectively.
Molecular formula:	NaN ₃
Pseudonym:	NaN ₃
REACH Reg.-No.:	01-2119457019-37-xxxx
EG-No.:	247-852-1

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Concentration:	< 0,1 %
according to CLP (GHS):	The criteria for a classification are not met because Natriumazide is used here as a preservative in a concentration < 0,1 % .
Ingredient name:	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (CMIT/MIT = 3/1).
CAS-No.:	55965-84-9
Classification:	No criteria for classification or not required, respectively.
REACH Reg.-NO.:	01-2120764691-48-XXXX
EG-No.:	911-418-6
Concentration:	< 0,00014%
according to CLP (GHS):	The criteria for a classification are not met.

Section 4: First aid measures

4.1 Description of first aid measures

General notes

Take off contaminated clothing. No first aid measures necessary at normal use.

Following skin contact

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects

Note for physicians: After inhaling combustion products symptoms may occur delayed.
A medical observation for 48 hours may be required.

4.3 Indication of any immediate medical attention and special treatment needed

None, treat symptomatically

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Co-ordinate firefighting measures to the fire surroundings, e.g. fire blanket. As extinguishing media FOAM, WATER SPRAY JET, DRY EXTINGUISHING POWDER and CARBON DIOXIDE may be used.

Unsuitable extinguishing media

for LFD12:	Water jet
for ChB02:	None

5.2 Special hazards arising from the substance or mixture

for LFD12: Flammable solid.

Explosion data:

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Sensitive to mechanical impact	None
Sensitive to static discharge	Yes

for ChB02: Aqueous solution: Not flammable.

Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable safety gloves (v. 8.2.2), safety goggles, evtl. face shield. The staff has to be instructed regularly regarding dangers and safety measures by using a standard operating procedure.
Respect working constraints.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Avoid release to the environment.

Results of PBT and vPvB assessment

Not applicable.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains. Take up mechanically with absorbent paper. Discard paper according to local regulations in regular disposal containers.

Advice on how to clean up a spill

Rinse with water. Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Close containers immediately after use to avoid spillage or exposure to humidity.

Advice on general occupational hygiene

Follow the provided instructions for use. Keep away from food, drink and animal feedingstuffs. Wash hands after use. Take off contaminated clothing.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Specific designs for storage rooms or vessels
Recommended storage temperature: 2 – 8 °C

7.3 Specific end use(s)

No information available.

Section 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Data are not available.

Human health values

Data are not available.

Environmental values

Data are not available.

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggle with side protection.

Skin protection

• hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

• type / thickness of material and breakthrough times

NBR (Nitrile rubber) / >0,11 mm / >480 minutes (permeation: level 6)

• other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection

No additional advice.

Other safety measures

Use laboratory coat and closed footwear. Follow the instructions for laboratory hygiene.

Environmental exposure controls

Keep away from drains, surface and ground water. Avoid release to the environment.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

LFD12:

a) Physical state:	solid, 25 plastic stris (Polysterene) in vial (PLA)
b) Colour:	white with red part
c) Odour:	odourless
d) Melting point/freezing point:	No data availabe.
e) Boiling point or initial boiling point and boiling range:	No data availabe, solid
f) Flammability:	Flammable by open fire

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g) Lower and upper explosion limit:	No data available.
h) Flash point:	No data available, solid
i) Auto-ignition temperature:	No data available, solid
j) Decomposition temperature:	No data available.
k) pH (value):	Not applicable
l) Kinematic viscosity:	No data available, solid
m) Water solubility:	No data available, solid
n) Distribution coefficient (K o/w):	No data available, solid
o) Vapour pressure (20°C):	No data available, solid
p) Density:	No data available.
q) Relative vapour density (air=1):	No data available, solid
r) Grain size: solid:	No data available, solid

ChB02:

a) Physical state:	liquid, 10ml in vial (PE)
b) Colour:	colourless
c) Odour:	odourless
d) Melting point/freezing point:	0°C at 1.013 hPa (ECHA)
e) Boiling point or initial boiling point and boiling range:	100°C at 101,6 kPa (ECHA)
f) Flammability:	This material is not combustible.
g) Lower and upper explosion limit:	No data available, aqueous solution
h) Flash point:	No data available, aqueous solution
i) Auto-ignition temperature:	No data available, aqueous solution
j) Decomposition temperature:	No data available, aqueous solution
k) pH (value):	7-8
l) Kinematic viscosity:	No data available, like Water
m) Water solubility:	No data available, aqueous solution
n) Distribution coefficient (K o/w):	No data available.
o) Vapour pressure (20°C):	No data available.
p) Density:	1 g/cm ³ at 101,6 kPa (ECHA)
q) Relative vapour density (air=1):	No data available, aqueous solution
r) Grain size: solid	No data available, aqueous solution

9.2 Other information

Information with regard to physical hazard classes: relevant	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics:	There is no additional information.

Section 10: Stability and reactivity

10.1 Reactivity

The components are stable under normal laboratory conditions. Use of components during operation generates no special hazards.

10.2 Chemical stability

The components are stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Stored under recommended conditions the components are stable and useable until expiration date.

10.3 Possibility of hazardous reactions

Violent reaction with:

LFD12 (contains nitrocellulose): strong oxidisers, strong acids and bases, static discharges

10.4 Conditions to avoid

No hazardous reactions expected, but stored at inappropriate conditions the product becomes unusable. Keep away

from heat. Avoid temperatures above: 30°C at 101,6 kPa.

10.5 Incompatible materials

LFD12 (contains nitrocellulose): strong oxidisers, strong acids and bases

10.6 Hazardous decomposition products

In the original box the parts/reagents are stored safely. Within the specified expiration time no decomposition is observed. Regarding hazardous combustion products: see section 5.

Section 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

The following readings apply for pure substances. The components of the kit as a whole are not classified as hazardous, because the concentrations of the pure substances therein are very low. Quantitative data for the kit are not available.

LFD12:

Substance name: Nitrocellulose <0,1% of total weight of the lateral-flow strip
CAS-No.: 9004-70-0
Classification: No criteria for classification or not required, respectively.

ChB02:

Substance name: Substance/Mixture up to 1%
CAS-No.: 26628-22-8
Classification: No criteria for classification or not required, respectively.

Classification according to GHS (1272/2008/EC, CLP)

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

Shall not be classified as acutely toxic.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Carcinogenicity / Mutagenicity / Effects for reproduction

Shall not be classified as neither carcinogenic, mutagenic nor reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed

No data available.

• If in eyes

No data available. May slightly irritant but not relevant for classification.

• If inhaled

No data available. Inhalation of aerosols may cause irritation of the respiratory system.

• If on skin

No data available. May slightly irritant but not relevant for classification.

• Other information

none

11.2 Endocrine disrupting properties

No data available.

11.3 Information on other hazards

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

Section 12: Ecological information

12.1 Toxicity

No data available. Shall not be classified as hazardous to the aquatic environment because the low concentrations resp. percentages in the components as well as the low volumes (< 100ml) resp. amounts (1 LFD < 10 g). No harmful long-term effects shall be expected. According to available data the criteria for classification are not met. Nevertheless, avoid release to the environment.

The following readings apply for pure substances:

LFD12:

Mixture name:	Substance/Mixture up to 1%
Water hazard class:	1
Storage class (TRGS 510):	12-13

ChB02:

Mixture name:	Substance/Mixture up to 1%
Water hazard class:	1
Storage class (TRGS 510):	12-13

Biodegradation

No data available.

12.2 Process of degradability

The product has not been tested.

12.3 Bioaccumulative potential

The product has not been tested.

12.4 Mobility in soil

The product has not been tested.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The product has not been tested.

12.6 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target

organisms as no components meets the criteria.

12.7 Other adverse effects

No further information available.

Section 13: Disposal considerations

Please comply to the national regulations for sampling and discarding laboratory waste.

13.1 Waste treatment methods

Consult the appropriate local waste disposal expert about waste disposal.

Sewage disposal-relevant information

ChB02: May be discarded diluted into drains.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

Section 14: Transport information

14.1 UN number or ID number

No dangerous good in sense of this transport regulation.

14.2 UN proper shipping name

No dangerous good in sense of this transport regulation.

14.3 Transport hazard class(es)

No dangerous good in sense of this transport regulation.

14.4 Packing group

No dangerous good in sense of this transport regulation.

14.5 Environmental hazards

Non-environmentally hazardous according to the dangerous goods regulations

14.6 Special precautions for user

No dangerous good in sense of this transport regulation.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk. No dangerous good in sense of this transport regulation.

14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information
Not subject to ICAO-IATA.

Section 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Entry 75

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

Not listed.

Seveso Directive

2012/18/EU (Seveso III)

No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	Not subject to 2012/18/EU (SEVESO III)		

Deco-Paint Directive

VOC content	0 % 0 g/l
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Industrial Emissions Directive (IED)

VOC content	0 % 0 g/l
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Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)
not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)
not listed

Water Framework Directive (WFD)
not listed

Regulation on the marketing and use of explosives precursors
not listed

Regulation on drug precursors
not listed

Regulation on substances that deplete the ozone layer (ODS)
not listed

Regulation concerning the export and import of hazardous chemicals (PIC)
not listed

Regulation on persistent organic pollutants (POP)
not listed

National inventories

Components are not listed in any national inventory.

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

Section 16: Other information

Indication of changes (revised safety data sheet)

Alignment to regulation: Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Revision Date	Revision	Changes
2023-11-01	A.01	Original
2024-08-02	A.02	Use of LFD12 (was: LFD04. Minor change because the only difference is the width)

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
SVHC	Substance of Very High Concern
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

Further information

This SDS has been compiled and is solely intended for this product. Data about hazardous ingredients were taken from the latest safety data sheet provided by the supplier.

Disclaimer

This information is based upon the present state of our knowledge. It is under no circumstances meant as assurance of product properties and does not establish any legal relationship.

It is the sole responsibility of the operator using our product to abide to local laws and provisions.