SAFETY DATA SHEET



Antibodies Reagent Kit

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

1.1 Product identifier

Product name : Antibodies Reagent Kit

CAS number : Antibody Reagents Not applicable.

Acealyse solution Not applicable.

Part no. (chemical kit) : None assigned.

Part no. : Antibody Reagents 8720251, 8730008

Acealyse solution Not available.

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

Material uses : For research use only. Not for use in diagnostic procedures (RUO).

8720251 CD3/CD16+CD56/CD45/CD4/CD19/CD8 Kit 1ml

8730008 CD3/CD8/CD45/CD4 antibody kit 2ml

Acealyse solution 5 ml

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG Hewlett-Packard-Str. 8 76337 Waldbronn Germany

0800 603 1000

e-mail address of person : pdl-msds_author@agilent.com

responsible for this SDS

1.4 Emergency telephone number

Emergency telephone

number (with hours of operation)

: CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Acealyse solution

H302	ACUTE TOXICITY (oral)	Category 4
H315	SKIN CORROSION/IRRITATION	Category 2
H319	SERIOUS EYE DAMAGE/EYE IRRITATION	Category 2
H317	SKIN SENSITISATION	Category 1
H341	GERM CELL MUTAGENICITY	Category 2
H350	CARCINOGENICITY	Category 1B
H335	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	Category 3

(Respiratory tract irritation)

Ingredients of unknown : Acealyse solution Percentage of the mixture consisting of ingredient(s) of

toxicity unknown acute inhalation toxicity: 1 - 10%

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Date of issue/Date of revision : 18/04/2022 Date of previous issue : No previous validation Version : 1 1/17

SECTION 2: Hazards identification

Hazard pictograms : Acealyse solution





: Antibody Reagents No signal word. Signal word

Acealyse solution Danger

Hazard statements : Antibody Reagents No known significant effects or critical hazards.

Acealyse solution H302 - Harmful if swallowed. H315 - Causes skin irritation.

> H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.

H341 - Suspected of causing genetic defects.

H350 - May cause cancer.

Precautionary statements

Prevention : Antibody Reagents Not applicable.

Acealyse solution P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing and eye

or face protection.

P261 - Avoid breathing vapour.

: Antibody Reagents Not applicable. Response

Acealyse solution P308 + P313 - IF exposed or concerned: Get medical

advice or attention.

Storage : Antibody Reagents Not applicable.

Acealyse solution P403 + P233 - Store in a well-ventilated place. Keep

container tightly closed.

Disposal : Antibody Reagents Not applicable.

Acealyse solution P501 - Dispose of contents and container in accordance

with all local, regional, national and international regulations.

Hazardous ingredients : Acealyse solution - 2,2' -oxybisethanol

> - formaldehyde Not applicable.

Supplemental label : Antibody Reagents

Not applicable. elements Acealyse solution

Annex XVII - Restrictions : Antibody Reagents Not applicable. on the manufacture, Acealyse solution Restricted to professional users. placing on the market

Special packaging requirements

: Antibody Reagents Not applicable. Tactile warning of Acealyse solution Not applicable. danger

2.3 Other hazards

1907/2006, Annex XIII

and use of certain dangerous substances, mixtures and articles

Product meets the : Antibody Reagents This mixture does not contain any substances that are

criteria for PBT or vPvB assessed to be a PBT or a vPvB.

Acealyse solution This mixture does not contain any substances that are according to Regulation (EC) No.

assessed to be a PBT or a vPvB.

Other hazards which do : Antibody Reagents None known.

Acealyse solution None known. not result in classification

Date of issue/Date of revision : 18/04/2022 Date of previous issue : No previous validation Version: 1 2/17

SECTION 3: Composition/information on ingredients

3.1 Substances : Antibody Reagents Mixture Acealyse solution Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Acealyse solution				
2,2' -oxybisethanol	EC: 203-872-2 CAS: 111-46-6 Index: 603-140-00-6	≥25 - ≤50	Acute Tox. 4, H302	[1] [2]
Formaldehyde, solution	EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5	≤10	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335 See Section 16 for the full text of the H statements declared above.	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

Acealyse solution

- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact: Antibody Reagents Immediately flush eyes with plenty of water, occasionally

lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove

any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation : Antibody Reagents Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if

symptoms occur.

Acealyse solution Remove victim to fresh air and keep at rest in a position

comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a

collar, tie, belt or waistband.

Date of issue/Date of revision : 18/04/2022 Date of previous issue : No previous validation Version : 1 3/17

SECTION 4: First aid measures

Skin contact: Antibody Reagents Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Acealyse solution Wash with plenty of soap and water. Remove contaminated

clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

Ingestion : Antibody Reagents Wash out mouth with water. If material has been swallowed

and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

Acealyse solution Wash out mouth with water. Remove dentures if any. If

material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders : Antibody Reagents No action shall be taken involving any personal risk or

without suitable training.

Acealyse solution No action shall be taken involving any personal risk or

without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous

to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with

water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact: Antibody Reagents No known significant effects or critical hazards.

Acealyse solution Causes serious eye irritation.

Inhalation : Antibody Reagents No known significant effects or critical hazards.

Acealyse solution May cause respiratory irritation.

Skin contact: Antibody Reagents No known significant effects or critical hazards.

Acealyse solution Causes skin irritation. May cause an allergic skin reaction.

Ingestion: Antibody Reagents No known significant effects or critical hazards.

Acealyse solution Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact: Antibody Reagents No specific data.

Acealyse solution Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation : Antibody Reagents No specific data.

Acealyse solution Adverse symptoms may include the following:

respiratory tract irritation

coughing

Date of issue/Date of revision : 18/04/2022 Date of previous issue : No previous validation Version : 1 4/17

Antibodies Reagent Kit

SECTION 4: First aid measures

Skin contact : Antibody Reagents No specific data.

> Acealyse solution Adverse symptoms may include the following:

> > irritation redness

Ingestion : Antibody Reagents No specific data.

Acealyse solution No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Antibody Reagents Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist

Acealyse solution immediately if large quantities have been ingested or inhaled.

Specific treatments : Antibody Reagents No specific treatment. Acealyse solution No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Antibody Reagents Acealyse solution

Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: Antibody Reagents Acealyse solution

None known. None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Antibody Reagents

In a fire or if heated, a pressure increase will occur and the

container may burst.

Acealyse solution

In a fire or if heated, a pressure increase will occur and the

container may burst.

Hazardous combustion

products

: Antibody Reagents

No specific data. Acealyse solution

Decomposition products may include the following materials:

carbon dioxide carbon monoxide metal oxide/oxides

5.3 Advice for firefighters

Special precautions for

fire-fighters

Antibody Reagents

Acealyse solution

Promptly isolate the scene by removing all persons from the

vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be

taken involving any personal risk or without suitable training.

Special protective equipment for fire-

fighters

: Antibody Reagents

Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Fire-fighters should wear appropriate protective equipment Acealyse solution

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Date of issue/Date of revision : 18/04/2022 Date of previous issue : No previous validation Version 5/17

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Antibody Reagents

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.

Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

Acealyse solution
No action shall be taken involving any personal risk or

without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put

on appropriate personal protective equipment.

For emergency responders

: Antibody Reagents

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and

unsuitable materials. See also the information in "For non-

emergency personnel".

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

6.2 Environmental precautions

: Antibody Reagents

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Acealyse solution Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Antibody Reagents

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

Acealyse solution Stop leak if without risk. Move containers from spill area.

Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures : Antibody Reagents

Put on appropriate personal protective equipment (see

Section 8).

Acealyse solution

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear

Date of issue/Date of revision : 18/04/2022 Date of previous issue : No previous validation Version : 1 6/17

SECTION 7: Handling and storage

Advice on general occupational hygiene

: Antibody Reagents

Acealyse solution

appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage : Antibody Reagents

Storage temperature: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

Acealyse solution

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations : Antibody Reagents

Acealyse solution

Industrial applications, Professional applications. Industrial applications, Professional applications.

Industrial sector specific solutions

: Antibody Reagents Acealyse solution Not available. Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Date of issue/Date of revision : 18/04/2022 Date of previous issue : No previous validation Version : 1 7/17

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
Acealyse solution	
2,2' -oxybisethanol	NAOSH (Ireland, 1/2020).
	OELV-8hr: 23 ppm 8 hours.
	OELV-8hr: 100 mg/m³ 8 hours.
Formaldehyde, solution	NAOSH (Ireland, 1/2020). Skin sensitiser.
	OELV-8hr: 0.3 ppm 8 hours.
	OELV-15min: 0.6 ppm 15 minutes.
	OELV-15min: 0.738 mg/m³ 15 minutes.
	OELV-8hr: 0.37 mg/m³ 8 hours.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
Acealyse solution					
2,2' -oxybisethanol	DNEL	Long term Inhalation	12 mg/m³	General population	Local
	DNEL	Long term Inhalation	12 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	53 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	60 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	60 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	106 mg/kg bw/day	Workers	Systemic
Formaldehyde, solution	DNEL	Long term Inhalation	0.1 mg/m ³	General population	Local
	DNEL	Long term Inhalation	0.5 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	1 mg/m³	Workers	Local
	DNEL	Long term Inhalation	3.2 mg/m ³	General population	Systemic
	DNEL	Long term Oral	4.1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	9 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	102 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	240 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	0.012 mg/ cm ²	General population	Local
	DNEL	Long term Dermal	0.037 mg/ cm ²	Workers	Local

PNECs

Date of issue/Date of revision : 18/04/2022 Date of previous issue : No previous validation Version : 1 8/17

SECTION 8: Exposure controls/personal protection

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Odour

Physical state : Antibody Reagents Liquid.

Acealyse solution Liquid.

Colour : Antibody Reagents Not available.

Acealyse solution Not available.

: Antibody Reagents Not available.

Acealyse solution Not available.

Odour threshold : Antibody Reagents Not available.

eshold : Antibody Reagents Not available.

Acealyse solution Not available.

Melting point/freezing: Antibody Reagents 0°C

point Acealyse solution Not available.

Date of issue/Date of revision : 18/04/2022 Date of previous issue : No previous validation Version : 1 9/17

SECTION 9: Physical and chemical properties

Initial boiling point and boiling range

Flammability (solid, gas)

: Antibody Reagents Acealyse solution

100°C (212°F) Not available.

: Antibody Reagents Acealyse solution

Not applicable. Not applicable.

Upper/lower flammability

or explosive limits

Antibody Reagents Acealyse solution

Not available. Not available.

Flash point

	Closed cup			cup		
Ingredient name	°C	°F	Method	°C	°F	Method
Acealyse solution						
Formaldehyde, solution	83	181.4				
Citric acid, trisodium salt, dihydrate	>100	>212				

Auto-ignition temperature

Method °C °F Ingredient name **Antibody Reagents** 309 588.2 EU A.16 Sodium azide Acealyse solution 2,2' -oxybisethanol 229 444.2 **DIN EN 14522-S** Formaldehyde, solution 430 806

Decomposition temperature pH

: Antibody Reagents Acealyse solution

Not available. Not available.

Viscosity

Antibody Reagents Not available. Acealyse solution Not available. : Antibody Reagents Not available. Not available.

Solubility(ies)

Acealyse solution : Antibody Reagents Acealyse solution

Soluble in the following materials: cold water and hot water. Soluble in the following materials: cold water and hot water.

Partition coefficient: noctanol/water

Antibody Reagents Acealyse solution

Not applicable. Not applicable.

Vapour pressure

	Vapoui	Pressure	e at 20°C	Vap	our press	sure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Antibody Reagents						
water	23.8	3.2		92.258	12.3	
Sodium azide	0.0075	0.001				
Acealyse solution						
Acealyse solution						
water	23.8	3.2		92.258	12.3	
Formaldehyde, solution	1	0.13				

Evaporation rate

: Antibody Reagents Not available. Acealyse solution

Relative density

Not available. Antibody Reagents Not available. Acealyse solution Not available.

Vapour density

: Antibody Reagents Not available. Acealyse solution Not available.

Oxidising properties

: Antibody Reagents Not available. Acealyse solution Not available.

Particle characteristics

Date of issue/Date of revision : 18/04/2022 Date of previous issue : No previous validation Version 10/17

Antibodies Reagent Kit

SECTION 9: Physical and chemical properties

Median particle size

: Antibody Reagents Acealyse solution Not applicable. Not applicable.

9.2 Other information

hazardous reactions

No additional information.

SECTION 10: Stability	y and reactivity
-----------------------	------------------

10.1 Reactivity : Antibody Reagents No specific test data related to reactivity available for this

product or its ingredients.

Acealyse solution No specific test data related to reactivity available for this

product or its ingredients.

10.2 Chemical stability : Antibody Reagents The product is stable.

Acealyse solution The product is stable.

10.3 Possibility of : Antibody Reagents Under normal conditions of storage and use, hazardous

reactions will not occur.

Acealyse solution Under normal conditions of storage and use, hazardous

reactions will not occur.

10.4 Conditions to avoid : Antibody Reagents No specific data.

Acealyse solution No specific data.

10.5 Incompatible : Antibody Reagents May react or be incompatible with oxidising materials. Acealyse solution May react or be incompatible with oxidising materials.

iterials Acealyse solution in way react or be incompatible with oxidising materials.

10.6 Hazardous : Antibody Reagents Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

Acealyse solution Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

decomposition products

Product/ingredient name	Result	Species	Dose	Exposure
Acealyse solution		6	44000 "	
2,2' -oxybisethanol	LD50 Dermal LD50 Oral	Rabbit Rat	11890 mg/kg 12000 mg/kg	-
Formaldehyde, solution	LD50 Dermal	Rabbit	270 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Acealyse solution Acealyse solution 2,2' -oxybisethanol Formaldehyde, solution	500	11890	N/A N/A N/A	30.3 N/A 3	N/A N/A N/A

Irritation/Corrosion

Date of issue/Date of revision : 18/04/2022 Date of previous issue : No previous validation Version : 1 11/17

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Acealyse solution					
2,2' -oxybisethanol	Eyes - Mild irritant	Rabbit	-	50 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Formaldehyde, solution	Eyes - Severe irritant	Rabbit	-	24 hours 750	-
				ug	
	Eyes - Severe irritant	Rabbit	-	750 ug	-
	Skin - Moderate irritant	Rabbit	-	24 hours 50	-
				mg	
	Skin - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Severe irritant	Rabbit	-	0.8 %	-

Sensitiser

Conclusion/Summary

Mutagenicity

Conclusion/Summary

Carcinogenicity

Conclusion/Summary

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Acealyse solution Formaldehyde, solution	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely : Antibody Reagents Not available.

Not available.

: Not available.

: Not available.

routes of exposure Acealyse solution Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Inhalation : Antibody Reagents No known significant effects or critical hazards.

Acealyse solution May cause respiratory irritation.

Ingestion : Antibody Reagents No known significant effects or critical hazards.

Acealyse solution Harmful if swallowed.

Skin contact: Antibody Reagents No known significant effects or critical hazards.

Acealyse solution Causes skin irritation. May cause an allergic skin reaction.

Eye contact: Antibody Reagents No known significant effects or critical hazards.

Acealyse solution Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Antibody Reagents No specific data.

Acealyse solution Adverse symptoms may include the following:

respiratory tract irritation

coughing

Ingestion : Antibody Reagents No specific data.

Acealyse solution No specific data.

Date of issue/Date of revision : 18/04/2022 Date of previous issue : No previous validation Version : 1 12/17

Antibodies Reagent Kit

SECTION 11: Toxicological information

Skin contact : Antibody Reagents No specific data.

Acealyse solution Adverse symptoms may include the following:

irritation redness

Eye contact: Antibody Reagents No specific data.

Acealyse solution Adverse symptoms may include the following:

pain or irritation

watering redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate

effects

: Not available.

Potential delayed

effects

: Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed

effects

Not available.

Potential chronic health effects

General : Antibody Reagents No known significant effects or critical hazards.

Acealyse solution Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

Carcinogenicity: Antibody Reagents No known significant effects or critical hazards.

Acealyse solution May cause cancer. Risk of cancer depends on duration and

level of exposure.

Mutagenicity: Antibody Reagents No known significant effects or critical hazards.

Acealyse solution Suspected of causing genetic defects.

Reproductive toxicity: Antibody Reagents No known significant effects or critical hazards.

Acealyse solution No known significant effects or critical hazards.

 Other information
 : Antibody Reagents
 Not available.

Acealyse solution Adverse symptoms may include the following: May cause

sensitisation by inhalation.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Acealyse solution			
2,2' -oxybisethanol	Acute LC50 75200000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Formaldehyde, solution	Acute EC50 3.48 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 3.05 mg/l Marine water	Algae - Isochrysis galbana - Exponential growth phase	96 hours
	Acute EC50 12.98 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 3.26 mg/l Fresh water	Daphnia - Daphnia magna - Embryo	48 hours
	Acute LC50 1.41 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 3000 ppm Fresh water	Crustaceans - Astacus astacus - Egg	21 days
	Chronic NOEC 1.56 mg/l Fresh water	Fish - Oreochromis niloticus - Fingerling	12 weeks

12.2 Persistence and degradability

Date of issue/Date of revision : 18/04/2022 Date of previous issue : No previous validation Version : 1 13/17

Antibodies Reagent Kit

SECTION 12: Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
Acealyse solution Formaldehyde, solution	OECD 301A Ready Biodegradability - DOC Die-Away Test	99 % - Readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Acealyse solution			
Formaldehyde, solution	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Acealyse solution 2,2' -oxybisethanol Formaldehyde, solution	-1.98 0.35	100	low low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects: No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

Packaging

Methods of disposal

: The classification of the product may meet the criteria for a hazardous waste.

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Date of issue/Date of revision : 18/04/2022 Date of previous issue : No previous validation Version : 1 14/17

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

14.6 Special precautions for user

: **Transport within user's premises**: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Ingredient name	EC number	CAS number	Restriction
Acealyse solution Acealyse solution formaldehyde	200-001-8	50-00-0	28 28, 72

Label

: Antibody Reagents Acealyse solution Not applicable.

Restricted to professional users.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

Date of issue/Date of revision : 18/04/2022 Date of previous issue : No previous validation Version : 1 15/17

Antibodies Reagent Kit

SECTION 15: Regulatory information

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
Acealyse solution formaldehyde	Ireland Occupational Exposure Limits	formaldehyde	Carc1B	-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.
Canada : Not determined.
China : Not determined.
Europe : Not determined.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : Not determined. **Philippines** Not determined. Republic of Korea : Not determined. **Taiwan** : Not determined. **Thailand** : Not determined. **Turkey** : Not determined. : Not determined. **United States Viet Nam** Not determined.

15.2 Chemical safety

assessment

: This product contains substances for which Chemical Safety Assessments might still

be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]
DMEL = Derived Minimal Effect Level

DNEL = Derived Nillillilla Effect Level

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Date of issue/Date of revision : 18/04/2022 Date of previous issue : No previous validation Version : 1 16/17

Antibodies Reagent Kit

SECTION 16: Other information

Classification	Justification	
Acealyse solution		
Acute Tox. 4, H302	Calculation method	
Skin Irrit. 2, H315	Calculation method	
Eye Irrit. 2, H319	Calculation method	
Skin Sens. 1, H317	Calculation method	
Muta. 2, H341	Calculation method	
Carc. 1B, H350	Calculation method	
STOT SE 3, H335	Calculation method	

Full text of abbreviated H statements

Acealyse solution	
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.

Full text of classifications [CLP/GHS]

Acealyse solution	
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Carc. 1B	CARCINOGENICITY - Category 1B
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
	Category 3

Date of issue/ Date of : 18/04/2022

revision

Date of previous issue : No previous validation

Version : 1

Notice to reader

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

Date of issue/Date of revision : 18/04/2022 Date of previous issue : No previous validation Version : 1 17/17