# SAFETY DATA SHEET

Agilent Technologies

of

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 Acealyse solution	Not applicable. Not applicable.
Part no. (chemical kit)	: None assigned.	
Part no.	: Antibody Reagents Acealyse solution	8720251, 8730008 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 LDA UK Ltd. 5500 Lakeside Cheadle Royal Business Park, Cheadle, Cheshire, SK8 3GR United Kingdom Tel: +44 (0) 345 712 5292 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

Product definition	: Antibody Reagents	Mixture
	Acealyse solution	Mixture
Clear if is at is a second in	a to Demulation (EC) No.	4070/000 TOL D/C

#### 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)
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

# **SECTION 2: Hazards identification**

Hazard pictograms	: Acealyse solution	
Signal word	: Antibody Reagents Acealyse solution	No signal word. Danger
Hazard statements	: Antibody Reagents Acealyse solution	No known significant effects or critical hazards. 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 Acealyse solution	Not applicable. P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or face protection. P261 - Avoid breathing vapour.
Response	: Antibody Reagents Acealyse solution	Not applicable. P308 + P313 - IF exposed or concerned: Get medical advice or attention.
Storage	: Antibody Reagents Acealyse solution	Not applicable. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	: Antibody Reagents Acealyse solution	Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: Acealyse solution	- 2,2' -oxybisethanol - formaldehyde
Supplemental label elements	: Antibody Reagents Acealyse solution	Not applicable. Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Antibody Reagents Acealyse solution	Not applicable. Restricted to professional users.
Special packaging require	ements	
Tactile warning of danger	: Antibody Reagents Acealyse solution	Not applicable. Not applicable.
2.3 Other hazards		
Product meets the	: Antibody Reagents	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	Acealyse solution	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: Antibody Reagents Acealyse solution	None known. None known.

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

	ntibody Reagents cealyse solution	Mixture 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	[1] [2]
			See Section 16 for the full text of the H statements declared above.	

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.

<u>Type</u>

[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

[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

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

4.1 Description of m	st alu measures	
Eye contact	: Antibody Reagents Acealyse solution	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.

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758 Antibodies Reagent Kit

SECTION 4: First ai	id 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	<ul> <li>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.</li> </ul>
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

Potential acute healt	<u>h effects</u>	
Eye contact	: Antibody Reagents Acealyse solution	No known significant effects or critical hazards. Causes serious eye irritation.
Inhalation	: Antibody Reagents Acealyse solution	No known significant effects or critical hazards. May cause respiratory irritation.
Skin contact	: Antibody Reagents Acealyse solution	No known significant effects or critical hazards. Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Antibody Reagents Acealyse solution	No known significant effects or critical hazards. Harmful if swallowed.
Over-exposure signs	s/symptoms	
Eye contact	: Antibody Reagents Acealyse solution	No specific data. Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Antibody Reagents Acealyse solution	No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing

<b>SECTION 4: First ai</b>	d measures	
Skin contact	: Antibody Reagents Acealyse solution	No specific data. Adverse symptoms may include the following: irritation redness
Ingestion	: Antibody Reagents Acealyse solution	No specific data. No specific data.
4.3 Indication of any immed	diate medical attention a	nd special treatment needed
Notes to physician	: Antibody Reagents Acealyse solution	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled
Specific treatments	: Antibody Reagents Acealyse solution	No specific treatment. No specific treatment.
SECTION 5: Firefig	hting 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 m	ixture
Hazards from the substance or mixture	: Antibody Reagents Acealyse solution	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the
	/ localyce condion	container may burst.
Hazardous combustion products	: Antibody Reagents Acealyse solution	No specific data. 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	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.
	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.
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.

### **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".
	Acealyse solution	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".
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 f	or containment and cleaning	g 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,

Acealyse solution Acealyse solution or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal contractor. 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	: See Section 1 for emergency contact information.
sections	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 h	nandling	
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 appropriate respirator when ventilation is inadequate. Keep

# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758 Antibodies Reagent Kit

SECTION 7: Hand	ling and storage	
		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.
Advice on general occupational hygiene	: Antibody Reagents	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.
	Acealyse solution	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.

#### 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**

Product/ingredient nar	ne Exposure limit values
Acealyse solution	
2,2' -oxybisethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 101 mg/m <sup>3</sup> 8 hours.
	TWA: 23 ppm 8 hours.
Formaldehyde, solution	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 2.5 mg/m <sup>3</sup> 15 minutes.
	STEL: 2 ppm 15 minutes.
	TWA: 2 ppm 8 hours.
Date of issue/Date of revision : 18/	04/2022 Date of previous issue : No previous validation Version : 1 7/1

1 3 0 1

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

	TWA. 2.5 mg/m o 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	Туре	Exposure	Value	Population	Effects
Acealyse solution					
2,2' -oxybisethanol	DNEL	Long term	12 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	12 mg/m³	General	Systemic
		Inhalation	"	population	
	DNEL	Long term Dermal	53 mg/kg	General	Systemic
		1	bw/day	population	1 1
	DNEL	Long term Inhalation	60 mg/m³	Workers	Local
	DNEL	Long term	60 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	106 mg/kg bw/day	Workers	Systemic
Formaldehyde, solution	DNEL	Long term	0.1 mg/m <sup>3</sup>	General	Local
-		Inhalation	_	population	
	DNEL	Long term	0.5 mg/m³	Workers	Local
		Inhalation			
	DNEL	Short term	1 mg/m³	Workers	Local
		Inhalation			
	DNEL	Long term	3.2 mg/m <sup>3</sup>	General	Systemic
		Inhalation	4.4	population	0
	DNEL	Long term Oral	4.1 mg/kg	General	Systemic
	DNEL	Long term	bw/day 9 mg/m³	population Workers	Systemic
	DINEL	Inhalation	9 mg/m	WOIKEIS	Systemic
	DNEL	Long term Dermal	102 mg/kg	General	Systemic
		Long term Derma	bw/day	population	Oysternic
	DNEL	Long term Dermal	240 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term Dermal	0.012 mg/	General	Local
			cm <sup>2</sup>	population	
	DNEL	Long term Dermal	0.037 mg/ cm²	Workers	Local

#### **PNECs**

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

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

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 side- shields.
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

Physical state	÷	Antibody Reagents	Liquid.
		Acealyse solution	Liquid.
Colour	1	Antibody Reagents Acealyse solution	Not available. Not available.
Odour	1	Antibody Reagents Acealyse solution	Not available. Not available.
Odour threshold	:	Antibody Reagents Acealyse solution	Not available. Not available.
Melting point/freezing point	:	Antibody Reagents Acealyse solution	0°C Not available.
Initial boiling point and boiling range	1	Antibody Reagents Acealyse solution	100°C (212°F) Not available.
Flammability (solid, gas)	:	Antibody Reagents Acealyse solution	Not applicable. Not applicable.
Upper/lower flammability or explosive limits	:	Antibody Reagents Acealyse solution	Not available. Not available.
Flash point	:		

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

				Closed cu	р				Open	cup
		Ingredient name	°C	°F	Meth	nod	°C		°F	Method
		Acealyse solution	1							
		Formaldehyde, solution	83	181.4						
		Citric acid, trisodium salt, dihydrate	>100	>212						
Auto-ignition	:	Ingredient name	1	°C		°F		ľ	Nethod	
emperature		Antibody Reagents								
		Sodium azide		309		588.2		EU A	A.16	
		Acealyse solution								
		2,2' -oxybisethanol		229		444.2		DIN	EN 1452	2-S
		Formaldehyde, solution		430		806				
Decomposition emperature	:	Antibody Reagents Acealyse solution		available. available.						
Н	:	Antibody Reagents Acealyse solution		available. available.						
/iscosity	:	Antibody Reagents Acealyse solution		available. available.						
Solubility(ies)	:	Antibody Reagents Acealyse solution								and hot wat and hot wat
Partition coefficient: n- octanol/water	:	Antibody Reagents Acealyse solution	Not	applicable applicable	e.	U				
/apour pressure	:		Vapour Pressure at 20			°C	C Vapour pressure at 50°			
		Ingredient name	mm Hg	kPa	Meth	od	mm Hg		kPa	Method
		Antibody Reagents								
		Antibody Reagents water	23.8	3.2			92.258		12.3	
			23.8 0.0075	3.2 0.001			92.258		12.3	
		water		-			92.258		12.3	
		water Sodium azide		-			92.258 92.258		12.3 12.3	
		water Sodium azide Acealyse solution	0.0075	0.001						
Evaporation rate	:	water Sodium azide Acealyse solution water Formaldehyde, solution	0.0075 23.8 1 Not	0.001						
		water Sodium azide Acealyse solution water Formaldehyde, solution Antibody Reagents	0.0075 23.8 1 Not Not	0.001 3.2 0.13 available.						
Relative density	:	water Sodium azide Acealyse solution water Formaldehyde, solution Antibody Reagents Acealyse solution Antibody Reagents	0.0075 23.8 1 Not Not Not Not	0.001 3.2 0.13 available. available. available.						
Relative density /apour density	:	water Sodium azide Acealyse solution water Formaldehyde, solution Antibody Reagents Acealyse solution Antibody Reagents Acealyse solution Antibody Reagents	0.0075 23.8 1 Not Not Not Not Not Not	0.001 3.2 0.13 available. available. available. available. available.						
Evaporation rate Relative density Vapour density Dxidising properties <u>article characteristics</u>	:	water Sodium azide Acealyse solution water Formaldehyde, solution Antibody Reagents Acealyse solution Antibody Reagents Acealyse solution Antibody Reagents Acealyse solution Antibody Reagents Acealyse solution Antibody Reagents	0.0075 23.8 1 Not Not Not Not Not Not	0.001 3.2 0.13 available. available. available. available. available. available. available.						

9.2 Other information

No additional information.

### **SECTION 10: Stability 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 hazardous reactions	: 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.
materials	Acealyse solution	May react or be incompatible with oxidising materials.
10.6 Hazardous decomposition products	: 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

Product/ingredient name	Result	Species	Dose	Exposure
Acealyse solution				
2,2' -oxybisethanol	LD50 Dermal	Rabbit	11890 mg/kg	-
	LD50 Oral	Rat	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	628.9	2727.3	N/A	30.3	N/A
2,2' -oxybisethanol	500	11890	N/A	N/A	N/A
Formaldehyde, solution	100	270	N/A	3	N/A

#### Irritation/Corrosion

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 %	-

# **SECTION 11: Toxicological information**

<u>Sensitiser</u>	
<b>Conclusion/Summary</b>	: Not available.
Mutagenicity	
<b>Conclusion/Summary</b>	: Not available.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: Not available.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: Not available.
Teratogenicity	
<b>Conclusion/Summary</b>	: Not available.
Specific target organ to:	<u>xicity (single exposure)</u>

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 routes of exposure	: Antibody Reagents Acealyse solution	Not available. Routes of entry anticipated: Oral, Dermal, Inhalation.
Potential acute health e	ffects	
Inhalation	: Antibody Reagents Acealyse solution	No known significant effects or critical hazards. May cause respiratory irritation.
Ingestion	: Antibody Reagents Acealyse solution	No known significant effects or critical hazards. Harmful if swallowed.
Skin contact	: Antibody Reagents Acealyse solution	No known significant effects or critical hazards. Causes skin irritation. May cause an allergic skin reaction.
Eye contact	: Antibody Reagents Acealyse solution	No known significant effects or critical hazards. Causes serious eye irritation.
Symptoms related to the	e physical, chemical and toxic	cological characteristics
Inhalation	: Antibody Reagents Acealyse solution	No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing
Ingestion	: Antibody Reagents Acealyse solution	No specific data. No specific data.
Skin contact	: Antibody Reagents Acealyse solution	No specific data. Adverse symptoms may include the following: irritation redness
Eye contact	: Antibody Reagents Acealyse solution	No specific data. Adverse symptoms may include the following: pain or irritation watering redness
Delayed and immediate	effects as well as chronic effe	ects from short and long-term exposure
<u>Short term exposure</u>		

Potential immediate : Not available.

effects

# **SECTION 11: Toxicological information**

	<u> </u>	
Potential delayed effects	: Not available.	
Long term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health e	effects	
General	: Antibody Reagents Acealyse solution	No known significant effects or critical hazards. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: Antibody Reagents Acealyse solution	No known significant effects or critical hazards. May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: Antibody Reagents Acealyse solution	No known significant effects or critical hazards. Suspected of causing genetic defects.
Reproductive toxicity	: Antibody Reagents Acealyse solution	No known significant effects or critical hazards. No known significant effects or critical hazards.
Other information	: Antibody Reagents Acealyse solution	Not available. 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

Product/ingredient name	Test	Result		Dose		Inoculum
Acealyse solution Formaldehyde, solution	OECD 301A Ready Biodegradability DOC Die-Away Test		adily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Acealyse solution Formaldehyde, solution	-		-		Readily	

#### **12.3 Bioaccumulative potential**

# **SECTION 12: Ecological information**

element iz. Eeeleg			
Product/ingredient name	LogPow	BCF	Potential
<b>Acealyse solution</b> 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	: The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal	<ul> <li>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.</li> </ul>
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.

# **SECTION 14: Transport information**

	ADR/RID	IMDG	ΙΑΤΑ
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** 

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

14.6 Special precautions	: Transport within user's premises: always transport in closed containers that are
for user	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
 : Not available.

 according to IMO
 instruments

### **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.

#### **National regulations**

Product/ingredient name	List name	Name on list	Classification	Notes
Acealyse solution formaldehyde	•	formaldehyde; methanal	Carc.	-

#### 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**

## **SECTION 15: Regulatory information**

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.
United States	: Not determined.
Viet Nam	: Not determined.
15.2 Chemical safety	: This product contains substances for which Chemical Safety Assessments might still

15.2 Chemical safet 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	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008]
	DMEL = Derived Minimal 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]

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

SECTION 16: Other information			
H350		May cause cancer.	
Full text of classifications	s [CLP/GHS]	·	
Acealyse solution Acute Tox. 3 Acute Tox. 4 Carc. 1B Eye Irrit. 2 Muta. 2 Skin Corr. 1B Skin Irrit. 2 Skin Sens. 1 STOT SE 3		ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 CARCINOGENICITY - Category 1B SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 GERM CELL MUTAGENICITY - Category 2 SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
Date of issue/ Date of revision	: 18/04/2022		
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.