SAFETY DATA SHEET



Antibodies Reagent Kit

Section 1. Identification

1.1 Product identifier

Product name : Antibodies Reagent Kit

Part no. (chemical kit) : None assigned.

Part no. : Antibody Reagents 8720251, 8730008

Acealyse solution Not available.

Validation date : 4/18/2022

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

Supplier/Manufacturer: Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : Antibody Reagents While this material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Acealyse solution This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

Acealyse solution

H302 ACUTE TOXICITY (oral) - Category 4
H315 SKIN IRRITATION - Category 2
H319 EYE IRRITATION - Category 2A
H317 SKIN SENSITIZATION - Category 1

H341 GERM CELL MUTAGENICITY - Category 2
H350 CARCINOGENICITY - Category 1B

H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

2.2 GHS label elements

Hazard pictograms : Acealyse solution





Signal word :

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Section 2. Hazards identification

Antibody Reagents No signal word. Acealyse solution Danger

: Antibody Reagents **Hazard statements** 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.

> P201 - Obtain special instructions before use. Acealyse solution

P280 - Wear protective gloves, protective clothing

and eve or face protection. P261 - Avoid breathing vapor.

P270 - Do not eat, drink or smoke when using this

product.

P264 - Wash thoroughly after handling.

: Antibody Reagents Not applicable. Response

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

medical advice or attention.

P304 + P312 - IF INHALED: Call a POISON

CENTER or doctor if you feel unwell.

P362 + P364 - Take off contaminated clothing and

wash it before reuse.

P363 - Wash contaminated clothing before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of

water.

P333 + P313 - If skin irritation or rash occurs: Get

medical advice or attention.

P305 + P351 + P338 - IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsina.

P337 + P313 - If eye irritation persists: Get medical

advice or attention.

: Antibody Reagents Not applicable. Storage

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

> > 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.

Supplemental label elements

: Antibody Reagents Acealyse solution

None known.

None known.

2.3 Other hazards

Hazards not otherwise

classified

: Antibody Reagents Acealyse solution

None known. None known.

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Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Acealyse solution		
2,2' -oxybisethanol	≥25 - ≤50	111-46-6
Formaldehyde, solution	≤10	50-00-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact : Antibody Reagents

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

Immediately flush eyes with plenty of water,

medical attention if irritation occurs.

Acealyse solution 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.

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.

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Section 4. First aid measures

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.

4.2 Most important symptoms/effects, 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

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 immediate medical attention and special treatment needed, if necessary

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

specialist immediately if large quantities have been

ingested or inhaled.

Acealyse solution Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

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Section 4. First aid measures

Specific treatments

: Antibody Reagents Acealyse solution

Protection of first-aiders

: Antibody Reagents

Acealyse solution

No specific treatment. No specific treatment.

No action shall be taken involving any personal risk

or without suitable training.

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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Antibody Reagents

Use an extinguishing agent suitable for the

surrounding fire.

Acealyse solution

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

Specific hazards arising from the chemical

: 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 thermal decomposition 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 protective actions

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.

Promptly isolate the scene by removing all persons Acealyse solution

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.

Fire-fighters should wear appropriate protective Acealyse solution

> equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

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Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Antibody Reagents

Acealyse solution

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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

For emergency responders : Antibody Reagents

Acealyse solution

If specialized 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". If specialized 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

Acealyse solution

Avoid dispersal of spilled 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).

Avoid dispersal of spilled 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 materials for containment and cleaning up

Methods for cleaning up : Antibody Reagents

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.

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.

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Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures

: Antibody Reagents

Acealyse solution

Advice on general occupational hygiene

: Antibody Reagents

Acealyse solution

7.2 Conditions for safe storage, including any incompatibilities

: Antibody Reagents

Acealyse solution

Put on appropriate personal protective equipment (see Section 8).

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 vapor or mist. Use only with adequate ventilation. Wear 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. 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.

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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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Section 7. Handling and storage

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

Ingredient name	Exposure limits
Acealyse solution	
2,2' -oxybisethanol	OARS WEEL (United States, 1/2021).
	TWA: 10 mg/m ³ 8 hours.
Formaldehyde, solution	ACGIH TLV (United States, 1/2021). Skin
	sensitizer. Inhalation sensitizer.
	STEL: 0.3 ppm 15 minutes.
	TWA: 0.1 ppm 8 hours.
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 0.75 ppm 8 hours.
	STEL: 2 ppm 15 minutes.
	OSHA PEL Z2 (United States, 2/2013).
	TWA: 0.75 ppm 8 hours.
	STEL: 2 ppm 15 minutes.
	NIOSH REL (United States, 10/2020).
	TWA: 0.016 ppm 10 hours.
	CEIL: 0.1 ppm 15 minutes.
	OSHA PEL (United States, 5/2018).
	TWA: 0.75 ppm 8 hours.
	STEL: 2 ppm 15 minutes.

8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor 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.

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.

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: chemical splash goggles.

Skin protection

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Section 8. Exposure controls/personal 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.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state : Antibody Reagents Liquid. Acealyse solution Liquid. : Antibody Reagents Not available. Color Acealyse solution Not available. Not available. Odor : Antibody Reagents Acealyse solution Not available. Not available. **Odor threshold** Antibody Reagents Acealyse solution Not available. pН : Antibody Reagents Not available. Acealyse solution Not available. Melting point/freezing point : Antibody Reagents 0°C (32°F) Acealyse solution Not available. **Boiling point, initial boiling** 100°C (212°F) : Antibody Reagents Acealyse solution Not available.

Acealyse solution

point, and boiling range

Flash point

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

Not available.

Evaporation rate

Flammability

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

Lower and upper explosion limit/flammability limit

Vapor pressure

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Section 9. Physical and chemical properties and safety characteristics

	Vapo	Vapor Pressure at 20°C			Vapor pressure 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								
water	23.8	3.2		92.258	12.3			
Formaldehyde, solution	1	0.13						

Not available.

Relative vapor density

: Antibody Reagents

Acealyse solution

Solubility

Relative density

: Antibody Reagents

Acealyse solution

Partition coefficient: n-octanol/water

Auto-ignition temperature

Acealyse solution Not available.

: Antibody Reagents Not available.

Not available.

Soluble in the following materials: cold water and

hot water.

Soluble in the following materials: cold water and

hot water.

: Antibody Reagents Not applicable. Acealyse solution Not applicable.

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

Decomposition temperature

: Antibody Reagents Acealyse solution: Antibody Reagents Acealyse solution

Not available.
Not available.
Not available.

Not available.

Particle characteristics

Median particle size

: Antibody Reagents Acealyse solution Not applicable. Not applicable.

Section 10. Stability and reactivity

10.1 Reactivity

Viscosity

: 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 Acealyse solution The product is stable. 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.

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Section 10. Stability and reactivity

10.5 Incompatible materials : Antibody Reagents May react or be incompatible with oxidizing

materials.

Acealyse solution May react or be incompatible with oxidizing

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		11890 mg/kg	-
	LD50 Oral		12000 mg/kg	-
Formaldehyde, solution	LD50 Dermal		270 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-

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 %	-

Sensitization

Not available.

Mutagenicity

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Acealyse solution			
Formaldehyde, solution	+	1	Known to be a human carcinogen.

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

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Section 11. Toxicological information

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

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 the likely routes of exposure

: Antibody Reagents

Not available.

Acealyse solution Routes of entry anticipated: Oral, Dermal,

Inhalation.

Potential acute health effects

Eye contact: Antibody Reagents No kn

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.

Symptoms related to the physical, chemical and toxicological characteristics

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

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.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

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Section 11. Toxicological information

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.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Acealyse solution Acealyse solution 2,2' -oxybisethanol	628.9 500	2727.3 11890	N/A N/A	20.5 N/A	N/A N/A
Formaldehyde, solution	100	270	N/A	3	N/A

Other information : Antibody Reagents Not available.

Acealyse solution Adverse symptoms may include the following: May

cause sensitization 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

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Section 12. Ecological information

Product/ingredient name	Test	Result		Dose		Inoculum
Acealyse solution Formaldehyde, solution	OECD 301A Ready Biodegradability - DOC Die-Away Test	99 % - Rea	dily - 28 days	-		-
Product/ingredient name	Aquatic half-life	Aquatic half-life			Biodeg	radability
Acealyse solution	_		_		Readily	

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	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.

12.5 Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods

The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS#		Reference number
Acealyse solution Formaldehyde	50-00-0	Listed	U122

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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Section 13. Disposal considerations

for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / : Not regulated.

IATA

Additional information

DOT Classification : Reportable quantity 2020.2 lbs / 917.17 kg. Package sizes shipped in quantities less

than the product reportable quantity are not subject to the RQ (reportable quantity)

transportation requirements.

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.

Transport in bulk according: Not available.

to IMO instruments

Section 15. Regulatory information

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

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 311: Formaldehyde, solution

Clean Air Act (CAA) 112 regulated toxic substances: Formaldehyde, solution

Clean Air Act Section 112

(b) Hazardous Air

Pollutants (HAPs)

Clean Air Act Section 602

Class I Substances

Clean Air Act Section 602

Class II Substances

DEA List I Chemicals (Precursor Chemicals)

DEA List II Chemicals

(Essential Chemicals)

: Listed

: Not listed

: Not listed

: Not listed

: Not listed

SARA 302/304

Composition/information on ingredients

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
Antibody Reagents Sodium azide	<0.1	Yes.	500	-	1000	-
Acealyse solution Formaldehyde, solution	≤10	Yes.	500	56.3	100	11.3

SARA 304 RQ : 2020.2 lbs / 917.2 kg

SARA 311/312

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Section 15. Regulatory information

Classification : Antibody Reagents Not applicable.

Acealyse solution

ACUTE TOXICITY (oral) - Category 4

SKIN IRRITATION - Category 2

EYE IRRITATION - Category 2A

SKIN SENSITIZATION - Category 1

GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Respiratory tract irritation) - Category 3

Composition/information on ingredients

Name	%	Classification
Acealyse solution		
2,2' -oxybisethanol	≥25 - ≤50	ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2B
Formaldehyde, solution	≤10	FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 HNOC - Corrosive to digestive tract

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Acealyse solution Formaldehyde, solution	50-00-0	≤10
Supplier notification	Acealyse solution Formaldehyde, solution	50-00-0	≤10

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: FORMALDEHYDE; FORMALIN

New York : The following components are listed: Formaldehyde

New Jersey : The following components are listed: FORMALDEHYDE; METHYL ALDEHYDE;

FORMALIN

Pennsylvania : The following components are listed: ETHANOL, 2,2'-OXYBIS-; FORMALDEHYDE

California Prop. 65

WARNING: This product can expose you to Formaldehyde, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Acealyse solution Formaldehyde	Yes.	-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

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

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
Acealyse solution ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2	Calculation method Calculation method Calculation method Calculation method Calculation method
CARCINOGENICITY - Category 2 CARCINOGENICITY - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method Calculation method

History

Date of issue : 04/18/2022

Date of previous issue : No previous validation

Version :

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available UN = United Nations

Indicates information that has changed from previously issued version.

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Section 16. Other information

Notice to reader

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