Safety Data Sheet (SDS)

Created: December 15 2022

(First Edition)

1. CHEMICAL PRODUCT AND COMPANY INDENTIFICATION

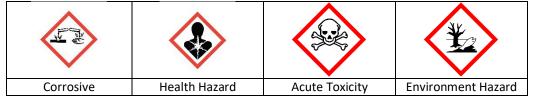
Product Name	Measure ALT (Reagent 1)
Company name, address and phone number Emmergency number Recommended usage and restrictions in usage	UMA Co., Ltd 2-19-6, Yokosuka, Matsudo, Chiba-ken, 2700-0031, JAPAN Phone: (+81) 47-710-4871 FAX: (+81) 47-710-4872 For the measurement of Alanine Aminotransferase <i>in vitro</i> Never use other instruments than UMA Co. Ltd designated instruments.

2. SUMMARY OF HAZARDS

GHS Classification

 Hazardous substance: 	Sodium Azide	0.03 mol/L
Classification of the substance or r	nixture	
Acute toxicity – Oral		Category 2
Acute toxicity – Dermal		Category 1
Skin corrosion/irritation		Category 1C
Serious eye damage/eye	irritation	Category 1
Specific target organ tox	city (single exposure)	Category 1
Specific target organ toxicity (repeated exposure)		Category 1
Aquatic environment (acute hazard)		Category 1
Aquatic environment (lo	ng-term hazard)	Category 1

Pictograms



Hazard statements

- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage
- H300 Fatal if swallowed H310 Fatal in contact with skin
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects
- H370 Causes damage to the following organs: cardiovascular system, central nervous system, lung, systemic toxicity
- H372 Causes damage to the following organs through prolonged or repeated exposure cardiovascular system, central nervous system, liver

Precautionary statements - (Prevention)

- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- Do not eat, drink or smoke when using this product
- Avoid release to the environment

Precautionary statements - (Response)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or doctor/physician

- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with wash contaminated clothing before reuse.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF SWALLO WED: Rinse mouth. DO NOT induce vomiting.

Precautionary statements - (Storage)

Store locked up. •

Precautionary statements - (Disposal)

Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance or Mixture:

- Mixture Tris (CAS: 77-86-1) buffer pH 9.1 30.0 mmol/L • • L-Alanine (CAS: 54-41-7) 1.2 mol/L NaN₃ (CAS: 22628-22-8) 0.03 mol/L • 3 U/mL •
 - LDH (EC 1.1.1.78)

4. FIRST AID MEASURES

Inhalation	Remove to fresh air. If symptoms persist, call a physician.
Skin contact	Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

5. FIRE FIGHTING MEASURES

Extinguishing Media	There is no fear of ignition and combustion.
Extinguishing Media Not to be Uesd	No information
Special Firefighting Method	No information
Specific Hazards	No information
Protection of Firefighters	Firefighting is done from the windward, avoid steam, the inhalation of smoke. Wear personal protective equiment.
6. ACCIDENTAL RELEASE MEASURES	
Precautions for Human health, Protective Equiment and Emmergency Measures	During work, wear protective equiment.
Environmental Precautions	Leakage has been the product is discharged into river and
	the like, be careful not to cause damage to the environment.

7. PRECAUTION IN HANDLING AND STORAGE

Handling

Technical Measures	Wear protective equiment to avoid contact with eyes, skin and clothing.
Precautions	Avoid accidentally swallowing. Wash thoroughly your hands and face after handling. Tumble the container, do not handle it roughly, such as dropping it or applying an impact.

Do not eat or drink when using. Avoid contact with skin, eyes and nose. Wash thoroughly your hands and face after handling.	
Avoiding storin	g in direct sunlight and fire condition.
AND PROTECTIO	ON MEASURES
	Not set
	Not set
	Not set
	Install a hand-washing facility nearby and clearly display its location.
	Protective Mask
	Protective Glove
	Protective Goggles
	Protective Boots, Protective Clothing, Rubber Apron as need
CAL PROPERTY	
	Liquid
	Colorness clear liquid
	Slightly characteristics oddor
	No data
nt and boiling	No data
	Nonflammable
osive limit	Not applicable
	Nonflammable
	Not applicable
	Not applicable
	No data
	No data
	No data
	Easily souble in water
	No data
	No data No data

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10. STABILITY AND REACTIVITY

Chemical stability	Stable in normal handling
Reactivity	Non-reactive under normal handling
Possibility of dangerous adverse reactions	
Dangerous polymerization	No dangerous polymerization reaction occurs
Condition to avoid	Freeze, heat and sunlight
Dangerous subtances to touch	Nothing in particular
Hazardous decomposition product	Strong oxidizers, acids, bases, heavy metals

11. TOXICOLOGICAL INFORMATION

There is no data as product (the following information is reported with contained ingredients)Acute Toxicity (larva)No data

Skin Corrosion and Irritation	Same as above	
Severe Eye Damage and Eye Irritation	Same as above	
Specific target organ toxicity (single exposure)	Same as above	
12. ENVIRONMENT HAZARDS No data as product		
13. DISPOSAL CONSIDERRATION	S	
Residual Wastes	When discharging, dilute with a large amount of water and discharge	
Contaminated Container and Package	Container should be cleaned and recycled, or property disposed of in accordance with revelant regulations and local government standards. When disposing of empty containers, completely remove residues retained in the containers.	
14. TRANSPORT CONSIDERATION	 VS	

14. TRANSPORT CONSIDERATIONS

International rules	None
Domestic rules	None
Specific safety measures and conditions for transportation	Avoid direct sunlight and transport at 2 – 8°C. Avoid falling, dropping, and sideways to prevent collapse of the load.

15. APPLICABLE LAWS AND REGULATIONS

Poisonous and Detelerious Substitution Control Law	N/A
Occupational Safety and Health Act	N/A
Act on Promotion of Control of Chemical Substance Emissions Management	N/A
Other hydro pollution control method	N/A
Pharmaceutical Affairs Law	In Vitro Diagnosis

16. OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lose profit or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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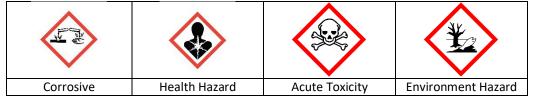
Product Name	Measure ALT (Reagent 2)
Company name, address and phone number Emmergency number Recommended usage and restrictions in usage	UMA Co., Ltd 2-19-6, Yokosuka, Matsudo, Chiba-ken, 2700-0031, JAPAN Phone: (+81) 47-710-4871 FAX: (+81) 47-710-4872 For the measurement of Alanine Aminotransferase <i>in vitro</i> Never use other instruments than UMA Co. Ltd designated instruments.

2. SUMMARY OF HAZARDS

GHS Classification

Hazardous substance:	Sodium Azide	0.0375 %w/w
Classification of the substance or i	nixture	
Acute toxicity – Oral		Category 2
Acute toxicity – Dermal		Category 1
Skin corrosion/irritation		Category 1C
Serious eye damage/eye	irritation	Category 1
Specific target organ tox	icity (single exposure)	Category 1
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Aquatic environment (acute hazard)		Category 1
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Pictograms



Hazard statements

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Precautionary statements - (Prevention)

- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- Do not eat, drink or smoke when using this product
- Avoid release to the environment

Precautionary statements - (Response)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with wash contaminated clothing before reuse.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. •
- IF SWALLO WED: Rinse mouth. DO NOT induce vomiting.

Precautionary statements - (Storage)

Store locked up. •

Precautionary statements - (Disposal)

Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance or Mixture:

- Mixture Tris (CAS: 77-86-1) buffer pH 4.4 370 mmol/L • 0.95 mol/L • L-Alanine (CAS: 54-41-7) NaN₃ (CAS: 22628-22-8) 0.0375 %w/w • 0.085 mol/L •
 - A-KG (CAS 328-50-7)

4. FIRST AID MEASURES

Inhalation	Remove to fresh air. If symptoms persist, call a physician.
Skin contact	Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

5. FIRE FIGHTING MEASURES

Extinguishing Media	There is no fear of ignition and combustion.
Extinguishing Media Not to be Uesd	No information
Special Firefighting Method	No information
Specific Hazards	No information
Protection of Firefighters	Firefighting is done from the windward, avoid steam, the inhalation of smoke. Wear personal protective equiment.
6. ACCIDENTAL RELEASE MEASURES	
Precautions for Human health, Protective Equiment and Emmergency Measures	During work, wear protective equiment.
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7. PRECAUTION IN HANDLING AND STORAGE

Handling

Technical Measures	Wear protective equiment to avoid contact with eyes, skin and clothing.
Precautions	Avoid accidentally swallowing. Wash thoroughly your hands and face after handling. Tumble the container, do not handle it roughly, such as dropping it or applying an impact.

Precautions for safe handling	Do not eat or drink when using. Avoid contact with skin, eyes and nose. Wash thoroughly your hands and face after handling.
torage Storage conditions	Avoiding storing in direct sunlight and fire condition.
8. EXPOSURE CONTROLS	AND PROTECTION MEASURES
Facility measure	Not set
Control concentration	Not set
Exposure Equiment	Not set
Equiment measures	Install a hand-washing facility nearby and clearly display its location.
Protective Equiment	
Respiratory Protection	Protective Mask
Hand Protection	Protective Glove
Eyes Protection	Protective Goggles
Skin and Body Protection	Protective Boots, Protective Clothing, Rubber Apron as need
	Apron de need
9. PHYSICAL AND CHEMIC	
9. PHYSICAL AND CHEMIC Physical state	
	CAL PROPERTY
Physical state	CAL PROPERTY Liquid
Physical state Color	CAL PROPERTY Liquid Slightly turbid, yellowish brown liquid
Physical state Color Smell Melting point/freezing point Boiling point or initial boiling poin point range	CAL PROPERTY Liquid Slightly turbid, yellowish brown liquid Slightly alcohol odor No data nt and boiling
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