

**Safety Data Sheet (SDS)**

Created: December 15 2022

(First Edition)

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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

**2. SUMMARY OF HAZARDS****GHS Classification**

- Hazardous substance: ProClin 300 0.2%

**Classification of the substance or mixture**

|  |            |
|--|------------|
| Skin corrosion/irritation                        | Category 1 |
| Serious eye damage/eye irritation                | Category 1 |
| Specific target organ toxicity (single exposure) | Category 1 |
| Aquatic environment (acute hazard)               | Category 3 |

**Hazard statements**

- H314 - Causes severe skin burns and eye damage
- H318 - Causes serious eye damage
- H370 - Causes damage to organs
- H402 - Harmful to aquatic life

**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 SWALLOWED: Rinse mouth. DO NOT induce vomiting.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

|                            |   |
|----------------------------|---|
| Pure substance or Mixture: | Mixture   |
|                            | <ul style="list-style-type: none"> <li>ADPS</li> <li>Sodium Salt</li> <li>MOPS Buffer</li> <li>Surfactant (PKA-5015)</li> <li>ProClin 300 0.2%</li> </ul> |

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#### 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. |

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#### 5. FIRE FIGHTING MEASURES

|                                    |   |
|------------------------------------|---|
| Extinguishing Media                | There is no fear of ignition and combustion.  |
| Extinguishing Media Not to be Used | 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 equipment. |

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#### 6. ACCIDENTAL RELEASE MEASURES

|   |   |
|---|---|
| Precautions for Human health, Protective Equipment and Emergency Measures | During work, wear protective equipment.   |
| Environmental Precautions   | Leakage has been the product is discharged into river and the like, be careful not to cause damage to the environment.  |
| Recovery/Neutralization   | The leaked liquid is recovered as much as possible, and the rest will be incinerated by absorbing cloth, in rag and the like. Not be recoverable liquid, wash away thoroughly diluted with plenty of water. |

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#### 7. PRECAUTION IN HANDLING AND STORAGE

##### Handling

|                               |   |
|-------------------------------|---|
| Technical Measures            | Wear protective equipment 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.   |

##### Storage

|                    |   |
|--------------------|---|
| Storage conditions | Avoiding storing in direct sunlight and fire condition. |
|--------------------|---|

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## 8. EXPOSURE CONTROLS AND PROTECTION MEASURES

|                          |  |
|--------------------------|--|
| Facility measure         | Not set  |
| Control concentration    | Not set  |
| Exposure Equipment       | Not set  |
| Equipment measures       | Install a hand-washing facility nearby and clearly display its location. |
| Protective Equipment     |  |
| Respiratory Protection   | Protective Mask  |
| Hand Protection          | Protective Glove   |
| Eyes Protection          | Protective Goggles   |
| Skin and Body Protection | Protective Boots, Protective Clothing, Rubber Apron as need              |

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## 9. PHYSICAL AND CHEMICAL PROPERTY

|  |                               |
|--|-------------------------------|
| Physical state   | Liquid                        |
| Color  | Colorless clear liquid        |
| Smell  | Slightly characteristics odor |
| Melting point/freezing point                                   | No data                       |
| Boiling point or initial boiling point and boiling point range | No data                       |
| Flammable  | Nonflammable                  |
| Lower explosive limit/upper explosive limit                    | Not applicable                |
| Flash point  | Nonflammable                  |
| Spontaneous ignition point                                     | Not applicable                |
| Decomposition temperature                                      | Not applicable                |
| pH   | No data                       |
| Kinematic viscosity  | No data                       |
| Evaporation rate   | No data                       |
| Solubility   | Easily soluble in water       |
| Vapour pressure  | No data                       |
| Density or relative density                                    | No data                       |
| Relative gas density   | No data                       |
| Particle characteristics                                       | Not applicable                |

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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, sunlight                       |
| Dangerous substances to touch              | Nothing in particular                        |
| Hazardous decomposition product            | Strong oxidizers, acids, bases, heavy metals |

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## 11. TOXICOLOGICAL INFORMATION

There is no data as product (the following information is reported with contained ingredients)

Hazardous substance 1: Sodium Hydroxyde

|   |               |
|---|---------------|
| 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<br>(single exposure) | Same as above |

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## 12. ENVIRONMENT HAZARDS

No data as product

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## 13. DISPOSAL CONSIDERATIONS

|                                    |   |
|------------------------------------|---|
| 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 relevant regulations and local government standards.<br>When disposing of empty containers, completely remove residues retained in the containers. |

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## 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. |

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## 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 |

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## 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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**Safety Data Sheet (SDS)**

Created: December 15 2022

(First Edition)

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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





**2. SUMMARY OF HAZARDS****GHS Classification**

- Hazardous substance: Sodium Azide < 0.09%

**Classification of the substance or mixture**

|  |             |
|--|-------------|
| 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 toxicity (single exposure)   | Category 1  |
| Specific target organ toxicity (repeated exposure) | Category 1  |
| Aquatic environment (acute hazard)                 | Category 1  |
| Aquatic environment (long-term hazard)             | Category 1  |

**Pictograms**

|   |   |   |   |
|---|---|---|---|
|  |  |  |  |
| Corrosive   | Health Hazard   | Acute Toxicity  | Environment Hazard  |

**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.

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- 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 SWALLOWED: 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.
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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

|                            |   |       |
|----------------------------|---|-------|
| Pure substance or Mixture: | Mixture   |       |
|                            | <ul style="list-style-type: none"> <li>• PIPES (CAS: 5625-37-6) buffer pH 7.0</li> <li>• Cholesterol esterase (EC: 3.1.1.13)</li> <li>• Cholesterol oxidase (EC: 1.1.3.6)</li> <li>• Peroxidase (EC: 1.11.1.7)</li> <li>• 4-Aminoantipyrine (CAS: 83-07-8)</li> <li>• Sodium Azide</li> </ul> | 0.09% |

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**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. |

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**5. FIRE FIGHTING MEASURES**

|                                    |   |
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| Extinguishing Media                | There is no fear of ignition and combustion.  |
| Extinguishing Media Not to be Used | 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 equipment. |

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**6. ACCIDENTAL RELEASE MEASURES**

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|---|---|
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| Environmental Precautions   | Leakage has been the product is discharged into river and the like, be careful not to cause damage to the environment.  |
| Recovery/Neutralization   | The leaked liquid is recovered as much as possible, and the rest will be incinerated by absorbing cloth, in rag and the like. Not be recoverable liquid, wash away thoroughly diluted with plenty of water. |

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**7. PRECAUTION IN HANDLING AND STORAGE**

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**Storage**

|                    |   |
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| Storage conditions | Avoiding storing in direct sunlight and fire condition. |
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**8. EXPOSURE CONTROLS AND PROTECTION MEASURES**

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| Facility measure         | Not set  |
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| Exposure Equipment       | Not set  |
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| Respiratory Protection   | Protective Mask  |
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**9. PHYSICAL AND CHEMICAL PROPERTY**

|  |                                 |
|--|---------------------------------|
| Physical state   | Liquid                          |
| Color  | Slightly yellowish brown liquid |
| Smell  | No data                         |
| Melting point/freezing point                                   | No data                         |
| Boiling point or initial boiling point and boiling point range | No data                         |
| Flammable  | Nonflammable                    |
| Lower explosive limit/upper explosive limit                    | Not applicable                  |
| Flash point  | Nonflammable                    |
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| pH   | No data                         |
| Kinematic viscosity  | No data                         |
| Evaporation rate   | No data                         |
| Solubility   | Easily soluble in water         |
| Vapour pressure  | No data                         |
| Density or relative density                                    | No data                         |
| Relative gas density   | No data                         |
| Particle characteristics                                       | Not applicable                  |

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## 10. STABILITY AND REACTIVITY

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