Safety Data Sheet (SDS)

Created: December 15 2022

(First Edition)

1. CHEMICAL PRODUCT AND COMPANY INDENTIFICATION

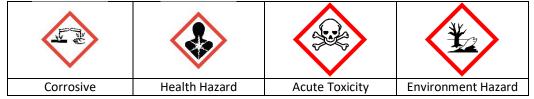
| Product Name | Measure CK (Reagent 1) |
|--|--|
| Company name, address and phone number Emmergency number Recommended usage and restrictions in usage | UMA Co., Ltd 2-19-6, Yokosuka, Matsudo, Chiba-ken, 2700-0031, JAPAN Phone: (+81) 47-710-4871 FAX: (+81) 47-710-4872 For the measurement of Creatine Kinase <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 tox | city (repeated exposure) | Category 1 |
| Aquatic environment (ac | ute 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.

Mixture

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance or Mixture:

| | ٠ | Imidazole (CAS: 288-32-4) buffer pH 6.7 | 135 mmol/L |
|-------|---|---|-------------|
| | ٠ | NaDP – K (CAS: 1184-16-3) | 12.7 mmol/L |
| | ٠ | ADP – 2Na (CAS: 16178-48-6) | 4.8 mmol/L |
| | ٠ | AMP – 2Na (CAS: 13474-03-8) | 8.6 mmol/L |
| | ٠ | Glucose (CAS: 50-99-7) | 27.1 mmol/L |
| | ٠ | NaN₃ (CAS: 26628-22-8) | 0.03 mol/L |
| | ٠ | HK (EC: 3.3.2.1) | 5 U/mL |
| | ٠ | G-6-PDH (EC: 1.1.1.49) | 3 U/mL |
| IIRES | | | |

or poison control center immediately. Do not induce vomiting without medical advice.

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 |

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. |
| 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. |

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. |

Storage

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 |

9. PHYSICAL AND CHEMICAL PROPERTY

| | 1 invited |
|---|-------------------------------|
| Physical state | Liquid |
| Color | Colorness 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 |
| рН | No data |
| Kinematic viscosity | No data |
| Evaporation rate | No data |
| Solubility | Easily souble in water |
| Vapour pressure | No data |
| Density or ralative density | No data |
| Relative gas density | No data |
| Particle characteristics | Not applicable |
| | |

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 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)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 (single exposure) | Same as above |

12. ENVIRONMENT HAZARDS

No data as product

13. DISPOSAL CONSIDERRATIONS

| 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 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.

Safety Data Sheet (SDS)

Created: December 15 2022

(First Edition)

1. CHEMICAL PRODUCT AND COMPANY INDENTIFICATION

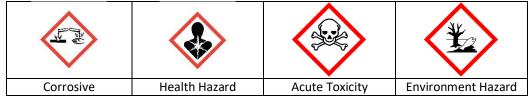
| Product Name | Measure CK (Reagent 2) |
|--|--|
| Company name, address and phone number Emmergency number Recommended usage and restrictions in usage | UMA Co., Ltd 2-19-6, Yokosuka, Matsudo, Chiba-ken, 2700-0031, JAPAN Phone: (+81) 47-710-4871 FAX: (+81) 47-710-4872 For the measurement of Creatine Kinase <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 | 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 |
| Specific target organ tox | icity (repeated exposure) | Category 1 |
| Aquatic environment (ac | ute 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

- Creatine Phosphate Sodium Salt (CAS: 922-32-7) 76 mmol/L
 - NaN₃ (CAS: 22628-22-8) 0.0375 %w/w

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. |
| 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. |

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. |

Storage

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 |

9. PHYSICAL AND CHEMICAL PROPERTY

| Physical state | Liquid |
|---|---|
| Color | Slightly turbid, yellowish brown liquid |
| Smell | Slightly alcohol 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 |
| рН | No data |
| Kinematic viscosity | No data |
| Evaporation rate | No data |
| Solubility | Easily souble in water |
| Vapour pressure | No data |
| Density or ralative density | No data |
| Relative gas density | No data |
| Particle characteristics | Not applicable |
| | |

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 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)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 (single exposure) | Same as above |

12. ENVIRONMENT HAZARDS

No data as product

13. DISPOSAL CONSIDERRATIONS

| 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 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.