

Safety Data Sheet

1. Product and Company Identification

Name: **MEASURE TP R-1**

Manufacturer's name: UMA Co.,Ltd.
Address: 2-19-6, Yokosuka, Matsudo. Chiba, 270-0031, Japan
Tel: +81-47-710-4871
Fax: +81-47-710-4872

Exporter's name: UMA Co.,Ltd.

2. Hazard Identification

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

Hazardous substance 1 :Sodium Azide

GHS classification

Acute toxicity - Oral	Category 2
Acute toxicity - Dermal	Category 1
Skin corrosion/irritation	Category 1 C
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 1
Category 1 cardiovascular system, central nervous system, lung, systemic toxicity	
Specific target organ toxicity (repeated exposure)	Category 1
Category 1 cardiovascular system, central nervous system, liver	
Aquatic environment (acute hazard)	Category 1
Aquatic environment (long-term hazard)	Category 1

Pictograms



Signal word

Danger

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)

- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not get in eyes, on skin, or on clothing
- Wear protective gloves/protective clothing/eye protection/face protection

- Do not breathe dust/fume/gas/mist/vapors/spray
- 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 POISONCENTER or doctor/physician
- Wash contaminated clothing before reuse.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF SWALLOWED: Immediately call a POISONCENTER or doctor/physician
- Rinse mouth.
- Do NOT induce vomiting.
- Collect spillage

Precautionary statements-(Storage)

- Store locked up.

Precautionary statements-(Disposal)

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

Hazardous substance 2 : Sodium Hydroxide**GHS classification**

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

Pictograms

Signal word

Danger

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 reathing.
- 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

3.Composition information on ingredients

Single Substance or Mixture : Mixture

Constituent reagent name	Chemical Name	Weight-%	ENCS	ISHL No.	CAS No.
R-1	Sodium azide	0.095	(1)-482	N/A	26628-22-8

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.

- Unsuitable extinguishing media
:None

6. Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures:
:Avoid direct skin contact
- Environmental precautions
:None
- Methods and materials for contaminant and methods and materials for cleaning up
: Wipe off a small amount. If leaked in large quantities, rinse with plenty of water.

7. Handling and Storage

- Handling :Technical measures Wear appropriate protective equipment so as not to touch eyes, skin and clothing. Prohibit sharp handling such as giving a large shock, falling, falling, etc. to the container or dragging.
- Storage :Avoid direct sunlight and store at 2-8 ° C.

8. Exposure Controls/Personal Protection

- Equipment measures
:None
- Controlled Concentration
:Not set
- Acceptable concentration
:Not set
- Protective Equipment

:Wear goggles, protective glove, and protective eyewear if necessary.

9.Physical and Chemical Properties

Appearance (Color / Shape)	Clear/ Liquid
Odor	No data
pH	6.43~6.63
Melting point	No data
Boiling point	No data
Point of ignition	Incombustibility
Starting point	Incombustibility
Density	No data
Solubility	easily soluble in water

10. Stability and reactivity

Reactivity	No information.
Chemical stability	No information
Hazardous reaction possibility	No information
Conditions to Avoid	No information
Incompatible hazardous substance	No information
Hazardous decomposition products	No information

11..information

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

Hazardous substance 1 :*Sodium azide*

Acute toxicity (lung)	:rat; LD50 45 mg / kg, mouse; LD 50 27 to 45 mg / kg
Acute toxicity (larva)	:rabbit; LD50 20 mg / kg
Skin corrosion / irritation	:rabbits: Roughness reported in 4 hr
Serious damage / irritation to the eyes	:It is inferred from skin rust and irritation
Specific target organs · Whole toxicity (single exposure)	:Knowledge of effects on respiratory / gastrointestinal etc.
Specific target organs · total toxicity (repeated exposure)	:knowledge of effects on the liver in animal experiments

Hazardous substance 2 :*Sodium hydroxide*

Acute toxicity (larva)	:rabbit; LD 50 325 mg / kg
Skin corrosion / irritation	:human; 0.5% or more, pigs: more than 8% rotten, rabbit; 5% 4 hr severe necrosis
Serious eye damage / irritation	:It causes serious damage to human eyes. Rabbit; rotted by 1.2% or more
Specific target organs / total toxicity (single exposure)	:Irregularities that cause pulmonary edema by stimulating the respiratory tract

12. Ecological information

No data as product

13. Disposal Considerations

Remaining	:Rinse with plenty of water. Restrictions such as water pollution prevention law and other regulations and prefectural ordinances etc As the cuprous sulfate pentahydrate falls under the general item prescribed in the Hydro pollution control law, according to the waste
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water standard

Contaminated containers / packaging

:Consign processing to a special waste disposal contractor who received permission from the prefectural governor.

14.Transport information

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.Regulatory information

Poisonous and Deleterious Substitution Control Law

:None

Occupational Safety and Health Act

:None

Act on Promotion of Control of Chemical Substance Emissions Management

:None

Other

Hydro pollution control method

:general item: copper

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

1.Product and Company Identification

Product(s): **MEASURE TP R-2**

Manufacturer's name: UMA Co.,Ltd.

Address: 2-19-6, Yokosuka, Matsudo. Chiba, 270-0031, Japan

Tel: +81-47-710-4871

Fax: +81-47-710-4872

Exporter's name: UMA Co.,Ltd.

2. Hazard Identification

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

ingredients)**Hazardous substance : Copper(II) Sulfate Pentahydrate****GHS classification**

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2
Reproductive Toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 1
Category 1 circulatory system, heart, kidneys, liver, nervous system, respiratory system	
Specific target organ toxicity (repeated exposure)	Category 1, Category 2
Category 1 circulatory system, kidneys, respiratory system	
Category 2 liver	
Aquatic environment (acute hazard)	Category 1
Aquatic environment (long-term hazard)	Category 1

Pictograms

Signal word

Danger

Hazard statements

- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H302 - Harmful if swallowed
- H341 - Suspected of causing genetic defects
- H361 - Suspected of damaging fertility or the unborn child
- H317 - May cause an allergic skin reaction
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects
- H370 - Causes damage to the following organs: circulatory system, heart, kidneys, liver, nervous system, respiratory system
- H372 - Causes damage to the following organs through prolonged or repeated exposure: circulatory system, kidneys, respiratory system
- H373 - May cause damage to the following organs through prolonged or repeated exposure: liver

Precautionary statements-(Prevention)

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required.
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Contaminated work clothing should not be allowed out of the workplace
- Protective gloves
- Do not breathe dust/fume/gas/mist/vapors/spray
- Avoid release to the environment

Precautionary statements-(Response)

- IF exposed: Call a POISON CENTER or doctor/physician
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.

- IF ON SKIN: Wash with plenty of soap and water
- Take off contaminated clothing and wash before reuse
- If skin irritation or rash occurs: Get medical advice/attention
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- Collect spillage

Precautionary statements-(Storage)

- Store locked up.

Precautionary statements-(Disposal)

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

3.Composition information on ingredients

Single Substance or Mixture : Mixture

Constituent reagent name	Chemical Name	Weight-%	ENCS	ISHL No.	CAS No.
R-2	Copper(II) Sulfate Pentahydrate	0.749	1-300	N/A	7758-99-8
R-2	sodium Hydroxide	8.0	1-410	N/A	1310-73-2

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.

Unsuitable extinguishing media

:None

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

:Avoid direct skin contact

Environmental precautions

:None

Methods and materials for contaminant and methods and materials for cleaning up

: Wipe off a small amount. If leaked in large quantities, rinse with plenty of water.

7. Handling and Storage

Handling

:Technical measures Wear appropriate protective equipment so as not to touch eyes, skin and clothing. Prohibit sharp handling such as giving a large shock,

Storage falling, falling, etc. to the container or dragging.
:Avoid direct sunlight and store at 2-8 ° C.

8. Exposure Controls/Personal Protection

Equipment measures

:None

Controlled Concentration

:Not set

Acceptable concentration

:Not set

Protective Equipment

:Wear goggles, protective glove, and protective eyewear if necessary.

9. Physical and Chemical Properties

Appearance (Color / Shape)	Blue / Liquid
Odor	No data
pH	13~15
Melting point	No data
Boiling point	No data
Point of ignition	Incombustibility
Starting point	Incombustibility
Density	No data
Solubility	easily soluble in water

10. Stability and reactivity

Reactivity	No information.
Chemical stability	No information
Hazardous reaction possibility	No information
Conditions to Avoid	No information
Incompatible hazardous substance	No information
Hazardous decomposition products	No information

11. Toxicological information

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

Hazardous substances :Copper(II) Sulfate Pentahydrate

Acute toxicity (lung) :rat; LD 50 960 mg / kg

Acute toxicity (lung) :rat; LD 50> 2000 mg / kg

Skin corrosion / irritation :emergence / pain (degree of stimulation unknown)

Serious damage / irritation to the eyes

:pain, pain, blurred vision (degree of stimulation unknown)

Skin sensitization

:Knowledge of classification as sensitizer

Specific target organs · Whole toxicity (single exposure)

:Knowledge of respiratory, kidney, nervous system, liver, and liver system as target organs

Specific target organs · Whole toxicity (repeated exposure)

:Knowledge of respiratory, kidney, liver, and liver system as target Organ

12. Ecological information

No data as product

13. Disposal Considerations

Remaining waste :Rinse with plenty of water. Restrictions such as water pollution

	prevention law and other regulations and prefectural ordinances etc As the cuprous sulfate pentahydrate falls under the general item prescribed in the Hydro pollution control law, according to the waste water standard
Contaminated containers / packaging	:Consign processing to a special waste disposal contractor who received permission from the prefectural governor.

16.Transport information

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.

17.Regulatory information

Poisonous and Deleterious Substitution Control Law	:None
Occupational Safety and Health Act	:None
Act on Promotion of Control of Chemical Substance Emissions Management	:None
Other	
Hydro pollution control method	:general item: copper
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 nformation 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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