

## Safety Data Sheet

Date Created: September 1, 2020

### 1. [Manufacturer Information]

Company Name: Uresin Co., Ltd.

Address : 660-0072 32 Oshogawada-cho, Amagasaki-shi, Hyogo Prefecture

TEL : 06-6412-3155 (Main) FAX : 06-

6412-3156 E-mail: [uresin@siren.ocn.ne.jp](mailto:uresin@siren.ocn.ne.jp)

### 2. [Product Name] Urecol 78

Alcohol Concentration (Volume % v/v) 78.00

### 3. [Substance Identification]

① Distinction between Single Product and Mixture: Mixture

#### ② Components and Content

| Chemical Name               | Concentration<br>(Vol%) | CAS No. | Chemical<br>Substance Control<br>Law No. | Industrial Safety and<br>Health Act | PRTR Act       |
|-----------------------------|-------------------------|---------|------------------------------------------|-------------------------------------|----------------|
| Ethanol<br>(Food Additive)  | 78.00                   | 64-17-5 | (2)-202                                  | Notification Target<br>Substance    | Not applicable |
| Glycerin<br>(Food Additive) | 0.01                    | 56-81-5 | (2)-242                                  | Notification Target<br>Substance    | Not applicable |
| Purified Water              | 21.99                   |         | -                                        | Notification Target<br>Substance    | Not applicable |

### 4. [Summary of Hazards]

#### ① GHS Classification

|                               |                                         |                                                       |
|-------------------------------|-----------------------------------------|-------------------------------------------------------|
| Physical and Chemical Hazards | Flammable Liquid                        | Category 2                                            |
| Health Hazards                | Serious Eye Damage<br>or eye irritation | Category 2B                                           |
|                               | Carcinogenicity                         | Category 1A                                           |
|                               | Reproductive toxicity                   | Category 1A                                           |
|                               | Specific Target Organ Toxicity          | Category 3                                            |
|                               | (Single Exposure)                       | (Respiratory tract irritation,<br>anesthetic effects) |

|  |                                                       |                                                           |
|--|-------------------------------------------------------|-----------------------------------------------------------|
|  | Specific Target Organ Toxicity<br>(Repeated Exposure) | Category 1 (Liver)<br>Category 2 (Central Nervous System) |
|--|-------------------------------------------------------|-----------------------------------------------------------|

② GHS Label Elements

|                     |                                                                                   |                                                                                    |                                                                                     |
|---------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Pictogram or Symbol |  |  |  |
|---------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|

③ After warning: Danger

④ Hazard and Risk Information:

- Highly flammable liquid and vapor
- May cause eye and respiratory irritation
- Possible carcinogenicity
- May impair fertility or harm the unborn child
- Risk of drowsiness or dizziness (respiratory tract irritation, anesthetic effects)
- Risk of organ damage due to long-term or repeated exposure (liver, central nervous system)

⑤ Precautions

[Safety Precautions]

- Obtain the instruction manual before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from ignition sources such as heat, sparks, open flames, or hot surfaces. — No smoking.
- Do not inhale mist/vapor/spray.
- Use only outdoors or in a well-ventilated area.
- Do not eat, drink, or smoke while using this product.
- Wash hands and eyes thoroughly after handling.
- Wear protective gloves, protective clothing, protective eyewear, and a protective face shield.

[First Aid]

- If it comes into contact with skin (or hair), immediately remove all contaminated clothing.
- If on skin: If undiluted product is present, flush with copious amounts of water.
- If in eyes: Rinse eyes with plenty of water for at least 15 minutes, then seek medical attention.
- If wearing contact lenses and they can be easily removed, remove them.
- In case of fire, use appropriate fire extinguishing methods.
- If exposed or if exposure is suspected, seek medical attention.

- If inhaled: Move to fresh air and rest in a position that allows easy breathing.
- If feeling unwell, contact a physician.
- If inhaled: Immediately move to fresh air and rest.
- If severe, seek prompt medical attention.
- If swallowed: Rinse mouth with water and drink several glasses of clean water.

[Storage]

- Store in a tightly sealed container in a cool, well-ventilated place.

[Disposal]

- Entrust disposal of contents/container to a licensed waste disposal contractor authorized by the prefectural governor.

5. [Fire Response]

- Fire Extinguishing Methods
  - ① For initial fire suppression, use large quantities of water spray or extinguish with powder extinguishing agents, carbon dioxide, alcohol-based extinguishing agents, etc.
  - ② Spray water on surrounding equipment to cool it down.
  - ③ Fire Extinguishing Agents: Water, Powder, Carbon Dioxide, Halon

6. [Measures in Case of Leakage]

- ① For small spills, immediately flush the spilled area with large amounts of water.
- ② For large spills, recover as much of the leaked liquid as possible into sealed empty containers. Flush the remaining spill area with large amounts of water.
- ③ Remove nearby ignition sources immediately due to permeability and volatility.

7. [Handling and Storage Precautions]

- Handling
  - ① Do not allow the substance to come into contact with fire or other potential ignition sources, pour it near such sources, allow it to evaporate near them, or heat it.
  - ② Keep the area where handling equipment is located tidy at all times. Do not store combustible or oxidizing substances in this area.
  - ③ Ensure adequate ventilation to prevent inhalation of high-concentration vapors.
- Storage
  - ① Ensure good ventilation to prevent vapor buildup.
  - ② Store away from fire and other hazardous areas. Ensure good ventilation and control temperature, humidity, and light exposure. Store in a cool, dark place.
  - ③ Do not store in the same location as oxidizing substances or organic peroxides.

## 8. Exposure Prevention Measures

- ① Control Concentration: Not established
- ② Permissible exposure limit: A C G I H  
: TWA 1000 ppm (as 100% ethanol)
- ③ Facility Measures: Handle in a well-ventilated area free from open flames.
- ④ Protective Equipment
  - Respiratory protection: Not required for normal operations. Use a gas mask for high concentrations.
  - Eye protection: Not typically required for normal use. Use safety goggles for high concentrations.
  - Protective gloves: Use standard rubber gloves.
  - Protective clothing: Use rubber aprons and safety shoes for normal operations.

## 9.[Physical/Chemical Properties]

- ① Appearance: Colorless to pale milky white transparent liquid Possesses a citrus-like aroma.
- ② Boiling point: No data available
- ③ Freezing point: No data available
- ④ Solubility (water) Easily soluble
- ⑤ Specific gravity: 0.8753 to 0.8805 (15°C/15°C)

## 10. [Hazard Information]

- ① Flash point: Flammable
- ② Ignition temperature: Ignition temperature present
- ③ Explosive limits Upper limit: No data available Lower limit: No data available
- ④ Combustible: Yes
- ⑤ Oxidizing:
- ⑥ Stability and Reactivity: Stable under normal handling conditions.
- ⑦ Reacts dangerously with strong oxidizing agents.

## 11. [Hazard Information]

- ① Skin Corrosion: No data available
- ② Skin irritation: Present
- ③ Eye irritation: Present
- ④ Sensitization: No data available
- ⑤ Acute toxicity: LD50 = 180 g/kg (rat, oral)(estimated)
- ⑥ Subacute toxicity: No data available
- ⑦ Carcinogenicity: No data available
- ⑧ Mutagenicity: No data available

## 12. [Environmental Impact Information]

- ① Degradability: No data available
- ② Bioaccumulation: No data available
- ③ Fish toxicity: No data available

## 13. [Disposal Precautions]

- Follow general precautions for flammable liquids

## 14. [Transportation Precautions]

- ① During transport, maintain containers below 40°C (104°F). Load containers to prevent tipping, dropping, or damage, and ensure secure stacking to prevent shifting.
- ② UN Classification: Class 3 (Flammable Liquid)  
UN Number: 1170  
Alcohols, ethanol, or solutions thereof (excluding aqueous solutions containing 24% or less alcohol by volume).  
[Ethyl Alcohol][Alcohol][Denatured Alcohol][Industrial Alcohol]
- ③ Aviation Law: Enforcement Regulations Article 194 3 (Flammable liquids (flash point 60.5°C or below) Port Regulations: Rule 12 Dangerous Goods Notice Appendix 5  
Flammable Liquids (High)
- ④ Act on the Prevention of Marine Pollution and Maritime Disasters: Enforcement Order  
Appendix 1, Item 213 Non-hazardous Substances
- ⑤ Other Precautions: In addition to the handling and storage precautions listed, prohibited from being mixed with Class 1 and Class 6 dangerous goods under the Fire Service Act

## 15. [Applicable Laws]

- ① Fire Service Act: Class 4 Flammable Liquids, Alcohols
- ② Industrial Safety and Health Act
  - Enforcement Order Appendix Table 1 Hazardous Materials 4. Flammable Substances 3 (Alcohol)
  - Enforcement Order Appendix 9 Hazardous Substances for Which Notification of Name, etc. is Required 62 (Alcohol)
- ③ Food Sanitation Act: Food Additives
- ④ Regulations on the Transport and Storage of Dangerous Goods by Ship: Flammable liquids High flash point flammable liquids

## 16. [Other Information]

- ① The information provided is based on the best available research but does not guarantee completeness or accuracy.
- ② All chemicals may possess unknown hazards; therefore, utmost care is required during handling.



③ Users are responsible for establishing safe usage conditions.

End

For inquiries regarding the contents of this Material Safety Data Sheet, please contact the following:

Uresin Co., Ltd.

660-0072

32 Oshogawada-cho, Amagasaki-shi, Hyogo 660-0072

E-mail: [uresin@siren.ocn.ne.jp](mailto:uresin@siren.ocn.ne.jp)