

# Uni-Dry

## Rinse Additive Drying Agent

UNI-KEM CHEMICALS, INC

802 Wm. Leigh Drive  
Tullytown, PA 19007  
Phone—800-752-1120  
Fax—215-269-9855

**GENERAL DESCRIPTION:** Uni-Dry is a concentrated liquid rinse additive which reduces rinse-water surface tension, providing rapid sheeting action for spot free drying. The excellent sheeting action of Uni-Dry helps eliminate alkaline and hard water film deposits from flatware, glasses and dishware. In addition, Uni-Dry controls foam thereby improving the performance of the dishmachine pump. Uni-Dry is formulated to attain excellent results in soft to medium hard water conditions.

### PHYSICAL PROPERTIES:

|                        |                                 |
|------------------------|---------------------------------|
| Chemical Composition   | Organic, nonionic wetting agent |
| Appearance.....        | Clear blue liquid               |
| pH.....                | 9.5                             |
| Specific gravity ..... | 1.030 (8.58 lbs/gal)            |
| Wetting Ability.....   | Instant, complete               |
| Foam.....              | Acts as a mild suppressant      |
| Odor.....              | Not residual                    |

### PACKAGING:

4/1 gallon plastic bottle 35 lbs net/38 lbs gross  
5 gallon plastic pail-43 lbs. net/46 lbs. gross

### CODE: UDR

*Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.*



### INSTRUCTIONS FOR USE:

Uni-Dry is recommended for use at a concentration between a minimum of 100ppm (1:10,000) and a maximum of 30ppm (1:3,000). The actual use concentration is determined by the individual operating conditions. Uni-Dry may be used at concentrations as low as 50ppm (1:20,000) under ideal water conditions consisting of low water hardness and low dissolved solids levels. For optimum results, install the rinse injection fitting as far back in the line from the rinse jets as possible. This allows thorough mixing of Uni-Dry with the water supply before it emerges from the final rinse jets. Final rinse temperatures should be maintained as close to the 180°F (82°C) minimum as possible, and should not exceed 190°F (87°C) in any case. Check the final rinse pressure and set at manufacturer's recommended level. Also, inspect final rinse for spray atomization. Adjust the rinse injector to feed Uni-Dry at the required concentration to achieve the rapid sheeting of water from the ware.

### HANDLING PRECAUTIONS:

#### CAUTION: WARNING

#### KEEP OUT OF REACH OF CHILDREN.

**EYES:** Flush with water for at least 15 minutes. If irritation persists, obtain medical attention.

**SKIN:** Wash with plenty of water for 15 minutes. If irritation occurs and persists, obtain medical attention.

**INHALATION:** Remove from exposure. If discomfort occurs and persists, obtain medical attention.

**INGESTION:** Drink water to dilute. Obtain medical advice by phone.

**DECONTAMINATION PROCEDURE:** Wash with soap and water.

**WARNING:** DO NOT store near oxidizing material.



# SAFETY DATA SHEET

Issuing Date 16-May-2013

Revision Date 16-May-2013

Revision Number 0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

Product Name UNI-DRY

### Other means of identification

Product Code(s) UDR

Synonyms UDR

### Recommended use of the chemical and restrictions on use

Recommended Use Institutional dish machine detergent

Uses advised against No information available

### Supplier's details

#### Supplier Address

Uni-Kem Chemicals, Inc.  
802 Wm. Leigh Drive  
Tullytown, PA  
19007  
TEL: 800-752-1120

### Emergency telephone number

Emergency Telephone Number CHEM-TEL, INC.  
24 Hour Emergency Contact 1-800-255-3924

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

### GHS Label elements, including precautionary statements

#### Emergency Overview

Signal Word None

The product contains no substances which at their given concentration are considered to be hazardous to health

Appearance Thin liquid Physical State Liquid. Odor No information available

### Precautionary Statements

#### Prevention

- None

**General Advice**

• None

**Storage**

• None

**Disposal**

• None

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

No information available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Synonyms**

UDR

| Chemical Name     | CAS-No  | Weight % | Trade secret |
|-------------------|---------|----------|--------------|
| Isopropyl alcohol | 67-63-0 | < 5      | *            |

*\*The exact percentage (concentration) of composition has been withheld as a trade secret.***4. FIRST AID MEASURES****Description of necessary first-aid measures****Eye Contact**

Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if symptoms occur.

**Skin Contact**

Wash off with warm water and soap. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.

**Inhalation**

Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

**Ingestion**

Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, seek medical attention.

**Most important symptoms/effects, acute and delayed****Most Important Symptoms/Effects** No information available.**Indication of immediate medical attention and special treatment needed, if necessary****Notes to Physician**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** None**Specific Hazards Arising from the Chemical**

No information available

**Explosion Data****Sensitivity to Mechanical Impact**

None.

Sensitivity to Static Discharge

None

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Stop leak if you can do it without risk. If spilled, take caution, as material can cause surfaces to become very slippery.

**Environmental Precautions****Environmental Precautions**

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

**Methods and materials for containment and cleaning up****Methods for Containment**

Stop leak if you can do it without risk

**Methods for Cleaning Up**

Contain spill, dilute with water and neutralize as required. Wash away small spills with plenty of water. Large spillage: Soak up with inert absorbent material.

**7. HANDLING AND STORAGE****Precautions for safe handling****Handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Do not take internally. Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities****Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature. Keep from freezing. Keep container closed when not in use.

**Incompatible Products**

Strong oxidizing agents.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters****Exposure Guidelines**

| Chemical Name                | ACGIH TLV                     | OSHA PEL  | NIOSH IDLH  |
|------------------------------|-------------------------------|---|---|
| Isopropyl alcohol<br>67-63-0 | STEL: 400 ppm<br>TWA: 200 ppm | TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>(vacated) TWA: 400 ppm<br>(vacated) TWA: 980 mg/m <sup>3</sup><br>(vacated) STEL: 500 ppm<br>(vacated) STEL: 1225 mg/m <sup>3</sup> | IDLH: 2000 ppm 10% LEL<br>TWA: 980 mg/m <sup>3</sup><br>TWA: 400 ppm<br>STEL: 500 ppm<br>STEL: 1225 mg/m <sup>3</sup> |

**Appropriate engineering controls****Engineering Measures**

Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

|                                 |  |
|---------------------------------|--|
| <b>Eye/Face Protection</b>      | Safety glasses with side-shields.  |
| <b>Skin and Body Protection</b> | Not usually necessary  |
| <b>Respiratory Protection</b>   | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| <b>Hygiene Measures</b>         | Handle in accordance with good industrial hygiene and safety practice.   |

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

|  |                          |                          |                          |
|--|--------------------------|--------------------------|--------------------------|
| <b>Physical State</b>                  | Liquid                   | <b>Appearance</b>        | Thin liquid              |
| <b>Odor</b>                            | No information available | <b>Odor Threshold</b>    | No information available |
| <b>Property</b>                        | <b>Values</b>            | <b>Remarks/ - Method</b> |                          |
| pH                                     | 7.5                      | None known               |                          |
| Melting Point/Range                    | No data available        | None known               |                          |
| Boiling Point/Boiling Range            | > 100 °C / > 212 °F      | None known               |                          |
| Flash Point                            | No data available        | None known               |                          |
| Evaporation rate                       | No data available        | None known               |                          |
| Flammability (solid, gas)              | No data available        | None known               |                          |
| Flammability Limits in Air             |                          |                          |                          |
| upper flammability limit               | No data available        |                          |                          |
| lower flammability limit               | No data available        |                          |                          |
| Vapor Pressure                         | No data available        | None known               |                          |
| Vapor Density                          | No data available        | None known               |                          |
| Relative Density                       | No data available        | None known               |                          |
| Specific Gravity                       | 1.019                    | None known               |                          |
| Water Solubility                       | 100%                     | None known               |                          |
| Solubility in other solvents           | No data available        | None known               |                          |
| Partition coefficient: n-octanol/water | No data available        | None known               |                          |
| Autoignition Temperature               | No data available        | None known               |                          |
| Decomposition Temperature              | No data available        | None known               |                          |
| Viscosity                              | 5 cps                    | None known               |                          |
| <b>Flammable Properties</b>            | Not flammable            |                          |                          |
| <b>Explosive Properties</b>            | No data available        |                          |                          |
| <b>Oxidizing Properties</b>            | No data available        |                          |                          |

**Other information**

|                 |                   |
|-----------------|-------------------|
| VOC Content (%) | No data available |
|-----------------|-------------------|

**10. STABILITY AND REACTIVITY****Reactivity**

No data available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.



**Conditions to avoid**

Incompatible products.

**Incompatible materials**

Strong oxidizing agents.

**Hazardous decomposition products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

|              |   |
|--------------|---|
| Inhalation   | May cause irritation of respiratory tract.                        |
| Eye Contact  | Contact with eyes may cause irritation.                           |
| Skin Contact | Prolonged skin contact may defat the skin and produce dermatitis. |
| Ingestion    | May cause irritation  |

| Chemical Name | LD50 Oral            | LD50 Dermal | LC50 Inhalation |
|---------------|----------------------|-------------|-----------------|
| Trade Secret  | = 5700 mg/kg ( Rat ) | -           | -               |

**Symptoms related to the physical, chemical and toxicological characteristics**

Symptoms No information available.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

Sensitization No information available.  
 Mutagenic Effects No information available.  
 Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name     | ACGIH | IARC    | NTP | OSHA |
|-------------------|-------|---------|-----|------|
| Isopropyl alcohol |       | Group 3 |     | X    |

**IARC: (International Agency for Research on Cancer)**

Group 3: Not Classifiable as to its Carcinogenicity to Humans

Reproductive Toxicity No information available.  
 STOT - single exposure No information available.  
 STOT - repeated exposure No information available.  
 Aspiration Hazard No information available.

**Numerical measures of toxicity - Product**

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 46032 mg/kg; Acute toxicity estimate  
 LD50 Dermal 721969 mg/kg; Acute toxicity estimate  
 Inhalation dust/mist 4094.9 mg/L; Acute toxicity estimate

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|---------------|-------------------|------------------|----------------------------|----------------------------|
|---------------|-------------------|------------------|----------------------------|----------------------------|

|                   |  |  |  |
|-------------------|--|--|--|
| Isopropyl alcohol | EC50 96 h: > 1000 mg/L<br>(Desmodesmus subspicatus)<br>EC50 72 h: > 1000 mg/L<br>(Desmodesmus subspicatus) | LC50 96 h: = 11130 mg/L<br>static (Pimephales promelas)<br>LC50 96 h: = 9640 mg/L<br>flow-through (Pimephales<br>promelas)<br>LC50 96 h: > 1400000 µg/L<br>(Lepomis macrochirus) | EC50 48 h: = 13299 mg/L<br>(Daphnia magna) |
|-------------------|--|--|--|

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

| Chemical Name     | Log Pow |
|-------------------|---------|
| Isopropyl alcohol | 0.05    |

**Other Adverse Effects**

No information available.

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** Dispose of in accordance with federal, state, and local regulations

**Contaminated Packaging** Do not re-use empty containers.

| Chemical Name     | California Hazardous Waste |
|-------------------|----------------------------|
| Isopropyl alcohol | Toxic<br>Ignitable         |

### 14. TRANSPORT INFORMATION

**DOT** Not regulated

### 15. REGULATORY INFORMATION

**International Inventories**

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name     | CAS-No  | Weight % | SARA 313 - Threshold Values % |
|-------------------|---------|----------|-------------------------------|
| Isopropyl alcohol | 67-63-0 | 1.56     | 1.0                           |

**SARA 311/312 Hazard Categories**

|                                   |    |
|-----------------------------------|----|
| Acute Health Hazard               | No |
| Chronic Health Hazard             | No |
| Fire Hazard                       | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard                   | No |



**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

"X" designates that the ingredients are listed on the state right to know list.

| Chemical Name     | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|-------------------|------------|---------------|--------------|----------|--------------|
| Isopropyl alcohol | X          | X             | X            |          | X            |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

|                    |                 |                |                   |                                 |
|--------------------|-----------------|----------------|-------------------|---------------------------------|
| <b><u>NFPA</u></b> | Health Hazard 0 | Flammability 0 | Instability 0     | Physical and Chemical Hazards - |
| <b><u>HMIS</u></b> | Health Hazard 0 | Flammability 0 | Physical Hazard 0 | Personal Protection X           |

Prepared By Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

Issuing Date 16-May-2013  
Revision Date 16-May-2013  
Revision Note Initial Release.

**General Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**

