Safety Data Sheet: ² ʎyŘ2ø CʎfY Lyãűl·ftl·ûʎ2y′ {2ftdzűʎ2y′ Concentrate

Item No. F007-046 Issue Date: September 24, 2014 Supersedes Date: March 11, 2014

## Section 1: IDENTIFICATION

**Product Name:** Window Film Installation Solution Concentrate
LűŜY′ bdzYōŜ℠Y Cллтплпс

**Manufacturer's Part Number:** **Please refer to Section 16*

**Recommended Use:** Dilute 1:30 (1ounce of concentrate for every 30 ounces of water) for use on hard non-porous glass and reflective surfaces.

**Restrictions on Use:** Do not use on non-glass or reflective surfaces.

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**Emergency Phone:** Chem-Tel 24-Hour Emergency Service: 800-255-3924

## Section 2: HAZARDS IDENTIFICATION

**This product is classified as hazardous (Eye Corrosive/Irritant - Category 2A) under 2012 OSHA Hazard Communication Standards (29 CFR 1910.1200).**

*OSHA HCS 2012*
*Label Elements*

**Signal Word:** Warning

**Hazard Symbol(s)/Pictogram(s):**

**Hazard Statements:**
H319 – Causes serious eye irritation

**Precautionary Statements:**
P264 – Wash hands thoroughly after handling
P280 – Wear eye protection when handling concentrate.
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 – If eye irritation persists: Get medical attention.

**Hazards Not Otherwise Classified (HNOC):** None

**Other Information:** None Known

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient | CAS Number | Percent Range |
|---|---|---|
| Water | 7732-18-5 | ≥ 89%* |
| C9-C16 ethoxylated alcohol | 97043-91-9 | ≤ 5%* |
| Complexing agent | Proprietary | ≤ 5%* |
| Colorant | Proprietary | ≤ 1%* |

**specific percentages of composition are being withheld as a trade secret*

## Section 4: FIRST-AID MEASURES

**Inhalation:** Not expected to cause respiratory irritation. If adverse effect occurs, move to fresh air.
**Skin Contact:** Not expected to cause skin irritation. If adverse effect occurs, rinse skin with water.
**Eye Contact:** Causes serious eye irritation. 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 attention.
**Ingestion:** May cause upset stomach. Drink plenty of water to dilute. See section 11.

**Most Important Symptoms/Effects, Acute and Delayed:** None known.

**Indication of Immediate Medical Attention and Special Treatment Needed, if necessary:** Treat symptomatically

## Section 5: FIRE-FIGHTING MEASURES

**Suitable & Unsuitable Extinguishing Media:** Use Dry chemical, CO2, water spray or "alcohol" foam. Avoid high volume jet water.
**Specific Hazards Arising from Chemical:** In event of fire, fire created carbon oxides may be formed.
**Special Protective Actions for Fire-Fighters:** Wear positive pressure self-contained breathing apparatus; Wear full protective clothing.

*This product is non-flammable. See Section 9 for Physical Properties.*

## Section 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:**
*For non-emergency personnel:* See section 8 – personal protection.
*For emergency responders:* Avoid eye contact. Safety goggles suggested if splashing or misting is likely to occur.

**Environmental Precautions:** Do not allow into open waterways and ground water systems.

**Methods and Materials for Containment and Clean Up:** Dike or soak up with inert absorbent material. See section 13 for disposal considerations.

## Section 7: HANDLING AND STORAGE

**Precautions for Safe Handling:** Ensure adequate ventilation. Keep out of reach of children. Keep away from heat, sparks, open flame and direct sunlight. Do not pierce any part of the container. Do not mix or contaminate with any other chemical. Do not eat, drink or smoke while using this product.

**Conditions for Safe Storage including Incompatibilities:** Keep container tightly closed. Keep in cool dry area. Avoid prolonged exposure to sunlight. Do not store at temperatures above 95°F (35°C) or freezing temperatures.

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limit Values:** No components listed with TWA or STEL values under OSHA or ACGIH.

**Appropriate Engineering Controls:** Showers, eyewash stations, ventilation systems

**Individual Protection Measures / Personal Protective Equipment (PPE)**
Eye Contact: Use protective glasses or safety goggles.
Respiratory: Use in well ventilated areas or local exhaust ventilations when cleaning small spaces.
Skin Contact: Not normally required.
General Hygiene Considerations: Wash thoroughly after handling and before eating or drinking.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| **Appearance:** | Blue Liquid | **Partition Coefficient: n-octanol/water:** | Not determined |
| **Odor:** | No added fragrance | **Autoignition Temperature:** | Non-flammable |
| **Odor Threshold:** | Not determined | **Decomposition Temperature:** | 95°F |
| **pH:** | 11.5 – 12.0 | **Viscosity:** | Like water |
| **Freezing Point:** | 0°C (32°F) | **Specific Gravity:** | 1.02 – 1.04 |
| **Boiling Point & Range:** | 101°C (213.8°F) | **VOCs:** | ***Water & fragrance exemption in calculation* |
| **Flash Point:** | > 212°F | SCAQMD 304-91 / EPA 24: | Not tested |
| **Evaporation Rate:** | Not determined | CARB Method 310**: | 0.0 g/L 0.0 lb/gal 0.0% |
| **Flammability (solid, gas):** | Not applicable | SCAQMD Method 313: | Not tested |
| **Upper/Lower Flammability or Explosive Limits:** | Not applicable | **VOC Composite Partial Pressure:** | Not determined |
| **Vapor Pressure:** | Not determined | **Relative Density:** | 8.50 – 8.67 |
| **Vapor Density:** | Not determined | **Solubility:** | 100% in water |

## Section 10: STABILITY AND REACTIVITY

**Reactivity:** Non-reactive.
**Chemical Stability:** Stable under normal conditions 70°F (21°C) and 14.7 psig (760 mmHg).
**Possibility of Hazardous Reactions:** None known.
**Conditions to Avoid:** Excessive heat or cold.
**Incompatible Materials:** Do not mix with oxidizers, acids, bathroom cleaners, or disinfecting agents.
**Hazardous Decomposition Products:** Normal products of combustion - CO, CO2.

## Section 11: TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure:**
Inhalation - Overexposure may cause headache.
Skin Contact - Not expected to cause irritation, repeated contact may cause dry skin.
Eye Contact - Causes serious eye irritation.
Ingestion - May cause upset stomach.

*Symptoms related to the physical, chemical and toxicological characteristics:* no symptoms expected under typical use conditions.
*Delayed and immediate effects and or chronic effects from short term exposure:* no symptoms expected under typical use conditions.
*Delayed and immediate effects and or chronic effects from long term exposure:* headache, dry skin, or skin irritation may occur.
*Interactive effects:* Not known.

Numerical Measures of Toxicity

**Acute Toxicity:**
Oral $LD_{50}$ (rat) > 5 g/kg body weight
Dermal $LD_{50}$ (rabbit) Not calculated

*Calculated via OSHA HCS 2012 / Globally Harmonized System of Classification and Labelling of Chemicals*

**Skin Corrosion/Irritation:** No ingredients trigger or classify under this category.
**Eye Damage/Irritation:** Causes Serious Eye Irritation (GHS Eye Category 2A)
**Germ Cell Mutagenicity:** Mixture does not classify under this category.
**Carcinogenicity:** Mixture does not classify under this category.
**Reproductive Toxicity:** Mixture does not classify under this category.
**STOT-Single Exposure:** Mixture does not classify under this category.
**STOT-Repeated Exposure:** Mixture does not classify under this category.
**Aspiration Hazard:** Mixture does not classify under this category.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Volume of ingredients used does not trigger toxicity classifications under the Globally Harmonized System of Classification and Labelling of Chemicals.
**Aquatic:** Not tested on finished formulation.
**Terrestrial:** Not tested on finished formulation.

**Persistence and Degradability:** Readily Biodegradable based on biodegradation profile of ingredients
**Bioaccumulative Potential:** No data available.
**Mobility in Soil:** No data available.
**Other Adverse Effects:** No data available.

## Section 13: DISPOSAL CONSIDERATIONS

**Unused or Used Liquid:** May be considered hazardous in your area depending on usage and tonnage of disposal – check with local, regional, and or national regulations for appropriate methods of disposal.

**Empty Containers:** May be offered for recycling.

Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

## Section 14: TRANSPORT INFORMATION

| | | | |
|---|---|---|---|
| **U.N. Number:** | Not applicable | **U.N. Proper Shipping Name:** | Cleaning Compound, Liquid NOI |
| **Transport Hazard Class(es):** | Not applicable | **NMFC Number:** | 48580-3 |
| **Packing Group:** | Not applicable | **Class:** | 55 |
| **Environmental Hazards:** | Marine Pollutant - NO | | |

**Transport in Bulk (according to Annex II of MARPOL 73/78 and IBC Code):** Unknown.
**Special precautions which user needs to be aware of/comply with, in connection with transport or conveyance either within or outside their premises:** None known.

| | | | |
|---|---|---|---|
| **U.S. (DOT) / Canadian TDG:** | Not Regulated for shipping. | **ICAO/ IATA:** | Not classified as Hazardous |
| **IMO / IDMG:** | Not classified as Hazardous | **ADR/RID:** | Not classified as Hazardous |

## Section 15: REGULATORY INFORMATION

**All components are listed on:** TSCA and DSL Inventory.

**SARA Title III:** Sections 311/312 Hazard Categories – Not applicable.
Sections 313 Superfunds Amendments and Reauthorizations Act of 1986 – Not applicable.
Sections 302 – Not applicable.

**Clean Air Act (CAA):** Not applicable
**Clean Water Act (CWA):** Not applicable

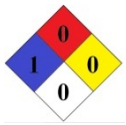
**State Right To Know Lists:** No ingredients listed
**California Proposition 65:** No ingredients listed
**Texas ESL:**

## Section 16: OTHER INFORMATION

| Size | Manufacturer Number | UPC |
|---|---|---|
| 1 Gallon | 1200000111301 | 043318113017 |
| 1 Gallon, 2 per case | 11301 & 1210000211301 | 043318113017 |

*USA items listed only. Not all items listed. USA items may not be valid for international sale.*

**NFPA:**
Health – Eye Irritant
Flammability – Non-flammable
Stability – Stable
Special - None




**Acronyms**

| | | | |
|---|---|---|---|
| NTP | National Toxicology Program | IARC | International Agency for Research on Cancer |
| OSHA | Occupational Safety and Health Administration | CPSC | Consumer Product Safety Commission |
| TSCA | Toxic Substances Control Act | DSL | Domestic Substances List |

**Prepared / Revised By:** UV Process Supply, Inc.
**This SDS has been revised in the following sections:** Revised SDS layout and added distributor details

**DISCLAIMER**: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.