

## Section I – Company and Product Identification

### UV Re-Kote



#### Manufacturer:

Pro Dyes International  
310 4th Street West  
Zeeland, ND 58581  
Ph: 701-851-0023

Date: 09/01/2019

#### Emergency Information:

##### Emergency Contact:

INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

Product Code UV Cure Re-Kote

#### Product Information:

Product name: UV ReKote Surface Rejuvenator:  
Synonyms: Paint & Body Repair  
Molecular formula: Proprietary Mixture  
Chemical family: Acrylates  
Product use: Wipe-On Protective Coating for automotive paints and plastics including clear polycarbonate headlights. **Formulated for fast cure – for professional use only. Not for retail consumers.**

## 2. HAZARDS IDENTIFICATION

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#### Emergency Overview

Color: Water-white/clear to pale amber  
Physical state: Liquid  
Odor: Acrylic-like

#### \*Classification of the substance or mixture:

Skin sensitization, Category 1, H317

Eye irritation, Category 2A, H319

\*For the full text of H-Statements in this Section, see  
Section 16.

GHS-Labeling

Hazard Pictograms:



Signal Word: Warning

Hazard statements:

H317: May cause an allergic skin reaction

H319: Causes serious eye irritation

Supplemental Hazard Statements:

**CAUTION! Used as directed.** Product is engineered to harden (polymerize / cure) on exposure to UV light. Curing reaction generates heat enough to produce steam on exposure to UV and cure reaction stops immediately on removal of UV light. Total heat generation depends on the amount of liquid – the more fluid; the more heat; the more steam. produces thin layer films that don't generate any appreciable heat.

Solid (cured) product is non-hazardous. Dispose solidified product as non-hazardous waste.

PRODUCT IS NON-FLAMMABLE. Product contains no solvents, no Volatile Organic Components no flammable components. Product will thermally decompose in a fire (harden, crumble and produce acrid smell).

Precautionary Statements:

Prevention: P261: Avoid breathing gas/mist/vapours/spray.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P280: Wear protective gloves.

Response: P302 + P352: IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention.  
P363: Wash contaminated clothing before reuse.

Disposal: P501: Dispose of liquid contents/ container to an approved waste disposal plant.  
Solidified product is NON-HAZARDOUS and can be disposed of as non-hazardous solid waste. See section 13 - Disposal of Waste Product.

Supplemental Information:

Potential Health Effects: Product caught in a fire decomposes, by hardening, then crumbling and releasing smoke/fumes that irritate eyes and respiratory system. Prolonged or repeated exposure to smoke/fumes

- may cause headache, drowsiness, nausea, weakness, (severity of effects depends on extent of exposure).

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical Name	CAS No.	%Wt/Wt	%Wt/Wt. Solids	g/gal.	GHS Classification**
TRADE SECRET	MIXTURE	100.0000%	100.0000%	n/a	H319, H317 Regulated
Volatiles (V.O.C's)	n/a	n/a	n/a	0.0000	
Total Solvent Content	n/a	n/a	n/a	0.0000	

\*\*For the full text of H-Statements in this Section, see Section 16. GHS-Labeling

### 4. FIRST AID MEASURES

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#### 4.1 Description of Necessary First-Aid Measures:

Inhalation: Inhalation is an unlikely hazard when product is used as directed. If inhaled, move to fresh air.

Skin: Primary dermal irritation testing (rabbit) indicates that this product is not a skin irritant. Wash product from hands and other skin areas with soap and water to avoid unwanted tracking of product onto other surfaces. In case of allergic reaction, immediately flush skin with soap and plenty of warm water for 15 minutes. Remove contaminated clothing and shoes. Get medical attention if allergy symptoms persist. Wash clothing and shoes with ample soap and rinse with ample warm water before wearing the clothing again.

Eyes: Immediately flush eye(s) with plenty of warm water for 15 minutes. Seek medical attention if eye irritation persists.

Ingestion: If swallowed, DO NOT induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms/effects, acute and delayed: For most important symptoms and effects (acute and delayed), see Section 2 (Hazard Statements and Supplemental Information) and Section 11 (Toxicology Information) of this document.

4.3. Indication of immediate medical attention and special treatment needed, if necessary: Unless otherwise noted in Notes to Physician, no specific treatment is noted; treat symptomatically.

### 5. FIREFIGHTING MEASURES

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PRODUCT IS NON-FLAMMABLE. Product contains no solvents, no Volatile Organic Components and no flammable components. However, if forced, product will thermally decompose in a fire.

Extinguishing Media (Suitable): Water spray, Carbon dioxide (CO<sub>2</sub>), Foam, Dry chemical

Protective Equipment: Fire fighters and others who may be exposed to products of combustion should wear full firefighting turn out gear (Full Bunker Gear) and self-contained breathing apparatus (pressure demand / NIOSH approved or equivalent).

Fight fire from a protected location/position. Cool closed containers exposed to fire with water spray. Closed containers of this material may explode when subjected to heat > 350oF from surrounding fire. Firefighting equipment should be thoroughly washed after use.

Fire and Explosion Hazards: Hazardous decomposition can produce carbon oxides, acrid smoke/fumes that irritate eyes and nasals and assorted hazardous organic compounds typical of burning plastics. Product is engineered to harden (polymerize or cure) on exposure to UV light. Curing can generate enough heat to produce steam. Cure/heat generation stops immediately on removal of UV light. Total heat generation depends on the amount of liquid – more fluid more heat. Wipe-on application of product produces thin layers that don't generate any appreciable heat.

## 6. ACCIDENTAL RELEASE MEASURES

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Personal Precautions, Emergency Procedures, Methods and Materials for Containment / Clean-up:

Prevent further leakage or spillage if you can do so without personal risk. Ventilate the area. Avoid generation of smoke/vapors. Contain and collect spillage with non-combustible absorbent material such as clean sand, earth, diatomaceous earth or non-acidic clay and place into suitable, properly labeled, containers for prompt disposal. Avoid dispersal of material spilled in quantities large enough to get into runoff, soil, waterways, drains and sewers. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other pertinent regulatory requirements.

Protective Equipment: Appropriate personal protective equipment is set forth in Section 8.

## 7. HANDLING AND STORAGE

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This product has a shelf life > 20 years under recommended storage conditions, even after opening the container.

Handling:

General information on handling: Use good personal hygiene practices when using this product. Avoid tracking product to other clean surfaces by simply washing hands thoroughly with soap and water. Use product only as directed.

Storage:

General information on storage conditions: Keep in a dry, cool place. Store in closed containers, in a secure area to prevent container damage and subsequent spillage. Store out of direct sunlight in a cool well-ventilated place.

Storage Stability – Remarks: An air space, or container “headspace” is required above the liquid in all containers; avoid storing liquid product under an oxygenfree atmosphere (“inert gas blanketing”). Oxygen is needed to keep product from premature hardening (cure) – hence the need for headspace and avoiding oxygen free blanketing.

**Incompatibility – Conditions to Avoid:**

Unintentional UV Exposure/Sources;

Strong oxidizing agents;

Strong reducing agents;

Free radical generators;

Inert gas blanketing;

Oxygen scavengers;

Peroxides;

Freezing;

LOW Temperature Tolerance – Do not store below: 32 °F (0 °C)

HIGH Temperature Tolerance – Do not store above: 100 °F (38 °C)

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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Airborne Exposure Guidelines:

Engineering controls:

This product is a simple wipe-on product intended for outdoor use. No hazard exposures anticipated when used as directed. No hazard exposure reported since 2004 (entire product history).

Respiratory Protection:

This product is a simple wipe-on product intended for outdoor use. No respiratory hazard exposure is anticipated when used as directed. For emergency and other conditions, such as fires, where there may be exposure to smoke and/or fumes use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Skin Protection:

NON-IRRITANT: Primary dermal irritation testing (rabbit). This product is a simple wipe-on product intended for outdoor use. Minimal skin hazard exposure is anticipated when used as directed. However, in case of an allergic reaction, wash skin with ample soap and warm water for 15 minutes. Remove contaminated clothing from continued skin contact. Get medical attention if allergy symptoms persist. Wash clothing well with ample soap and water before wearing the clothing again.

Eye Protection: This product is a simple wipe-on product intended for outdoor use. Minimal eye hazard exposure is anticipated when used as directed. Avoid touching your face when using this product.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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Color:	Slightly Amber
Physical state:	Liquid
Odor:	Acrylic-like

Odor threshold:	No data available
Flash point	> 212 °F (100 °C) (Pensky-Martens closed cup)
Auto-ignition temperature:	Decomposes
Lower flammable limit (LFL):	No data available
Upper flammable limit (UFL):	No data available
pH:	~7
Weight per Gallon:	8.87 Lbs./Gal. @ 68°F (20°C)
Specific Gravity (Relative density):	1.06 @ 68°F (20°C) Water =1 (liquid)
Boiling point/boiling range:	> 212 °F (100 °C) @ 760mm Hg
Melting point/range:	Decomposes
Freezing point:	No data available
Evaporation rate (Butyl Acetate =1):	Negligible
Vapor Density (Air=1)	No data available
% Solids by weight:	99.9999% (Trace impurities)
% V.O.C.'s (Volatile Organic Components)	0.0000% (Trace impurities)
Solubility in water:	Negligible
Viscosity, dynamic:	90 mPa.s 77 °F (25 °C) (Method: Brookfield)
Oil/water partition coefficient:	No data available
Thermal decomposition:	No data available
Flammability:	Non-Flammable

## 10. STABILITY AND REACTIVITY

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### Stability:

This material is stable when used as directed, in anticipated usage, storage and handling. However, this material can undergo hazardous polymerization (generates heat enough to produce steam).

Hazardous Reactions: Hazardous polymerization may occur on loss of inhibitor(s). Polymerization (cure) is exothermic. This product is engineered to harden (polymerize or cure) on exposure to UV light. Hardening of bulk product (any pooling of liquid) in full sunlight, can generate heat enough to produce steam during exposure to UV light. Higher intensity UV light results in faster reaction/cure. Heat generated by cure stops immediately on removal of UV light. Heat generation depends on the amount of liquid – the more fluid, the more heat, the more steam. Used as directed, this product is applied in thin layers that do not generate any noticeable heat.

### Materials to Avoid:

Strong oxidizing agents; Strong reducing agents; Free radical generators; Inert gases; Oxygen scavengers; Peroxides;

### Conditions / Hazards to Avoid:

Freezing Temperatures > 212 °F (100 °C) Inert gases / blanketing; Oxygen free atmosphere, Direct sunlight / ultraviolet light – until desired to harden applied product

### Hazardous Decomposition Products:

Carbon oxides Other Hazardous organic compounds typical of burning plastics

## 11. TOXICOLOGICAL INFORMATION

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TOXICOLOGICAL INFORMATION 11.1 Information on toxicological effects Acute toxicity LD50 Oral - Rat - > 5,000 mg/kg

LC50 Inhalation - Rat - male and female - 6 h - > 0.55 mg/l

LD50 Dermal - Rabbit - 5,170 mg/kg

LD50 Intraperitoneal - Rat - 55 mg/kg Remarks: Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Convulsions or effect on seizure threshold. Behavioral: Ataxia.

Skin corrosion/irritation Skin - Rabbit Result: Irritating to skin. - 24 h

Serious eye damage/eye irritation Eyes - Rabbit Result: Irritating to eyes.

Respiratory or skin sensitisation Maximisation Test - Guinea pig Result: May cause sensitisation by skin contact.

Germ cell mutagenicity Ames test *S. typhimurium*

Mutagenicity (micronucleus test) Mouse - male and female Result: negative

Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity No data available No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information Repeated dose toxicity Rat - male and female - NOAEL : >= 200 mg/kg RTECS: AT4810000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence (Mequinol)

## 12. ECOLOGICAL INFORMATION

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Toxicity

Toxicity to fish static test LC50 - *Leuciscus idus* (Golden orfe) - 1.47 mg/l - 96 h (DIN 38412)

Toxicity to daphnia and other aquatic invertebrates static test LC50 - *Daphnia magna* (Water flea) - 19.9 mg/l - 48 h

Toxicity to algae static test EC50 - *Desmodesmus subspicatus* (*Scenedesmus subspicatus*) - 4.86 mg/l - 96 h 12.2

Persistence and degradability Biodegradability aerobic - Exposure time 28 d Result: 82 - 90 % - Readily

biodegradable (OECD Test Guideline 301B) 12.3 Bioaccumulative potential No data available 12.4 Mobility in soil No data available 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted 12.6 Other adverse effects

No data available

## 13. DISPOSAL CONSIDERATIONS

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### Disposal of Waste Product:

Solidified (cured) product is non-hazardous and can be disposed of as ordinary trash. Scrap, contaminated, left over or unwanted liquid can be cured until solid in an ordinary, disposable aluminum pan that can be

Purchased from a grocery store. Place the disposable aluminum pan out doors, in sunlight, on a concrete, asphalt, gravel or other surface that will not be damaged by heat as high as 200oF or

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higher. Fill the pan half way with ice cold water. Pour about an inch of the liquid into the ice cold, water, filled aluminum pan. Product is heavier than water and will displace the water. As product reacts to sunlight it will harden underwater. Depending on sunlight levels, one inch may cure in a couple minutes or faster.

WARNING: keep adding ice or ice cold water to the pan to keep the water and pan from getting boiling hot. As each layer cures solid, repeat adding another layer of product to be disposed of along with the cooling water. Repeat until pan is full of solidified product. Once the pan and solidified product has cooled to ambient temperature, dispose of cool, solidified product as non-hazardous, solid waste in regular trash.

Dispose of paper towel applicators and any disposable items that are wet with product by exposing to sunlight until cured and dry, then dispose of as non-hazardous waste. If clothing gets wet with product, get it out of the sun before product hardens and wash with soap and rinse with water until clean of product.

Any surfaces not intended to receive product should be washed with soap and rinsed with water before product hardens.

**NOTE: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Contact Pro Dyes International with any questions.**

## 14. TRANSPORT INFORMATION

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U.S. Department of Transportation (USDOT): NOT REGULATED International Maritime Dangerous Goods Code (IMDG): NOT REGULATED

## 15. REGULATORY INFORMATION

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### Chemical Inventory Status:

USA: Toxic Substances Control Act	TSCA	All components are on the TSCA Inventory.
China: Inventory of Existing Chemical	IECSC (CN)	Conforms to Substances in China (IECSC) Japan:
ENCS - Existing and New	ENCS (JP)	Conforms to Chemical Substances Inventory
Japan: Inventory of Chemical Substances	ISHL (JP)	Conforms to Chemical Substances Inventory
Korea: Korean Existing Chemicals	KECI (KR)	Conforms to KECI Inventory
Philippines: Inventory of Chemicals	PICCS (PH)	Does not conform to PICCS Chemical Substances
Australia: Inventory of Chemical	AICS	Conforms to AICS Substances

### United States – Federal Regulations

#### SARA Title III – Section 302 Extremely Hazardous Chemicals:

The components in this product are either not SARA Section 302 regulated or regulated but present in negligible concentrations.

#### SARA Title III - Section 311/312 Hazard Categories:

Acute Health Hazard, Reactivity Hazard

#### SARA Title III – Section 313 Toxic Chemicals:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.



Comprehensive Environmental Response, Compensation, & Liability Act (CERCLA) - Reportable Quantity (RQ):  
The components in this product are either not CERCLA regulated, regulated but present in negligible concentrations, or regulated with no assigned reportable quantity.

#### United States – State Regulations

New Jersey Right to Know: No components are subject to the New Jersey Right to Know Act.

Pennsylvania Right to Know: Chemical name CAS No. Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -hydro- $\omega$ -[(1-oxo-2-propen-1-yl)oxy]- ether 53879-54-2 with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) 2-Propenoic acid 79-10-7 Benzene, methyl- 108-88-3

Pennsylvania Right to Know – Environmentally Hazardous Substance(s) Chemical name CAS No. 2-Propenoic acid 79-10-7 Benzene, methyl- 108-88-3

California Prop. 65: WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm: Chemical name CAS No. Benzene, methyl- 108-88-3

## • 16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3: H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation

The statements, technical information, recommendations and suggestions contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, Pro Dyes International expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should test product on an inconspicuous area before applying it to an unfamiliar surface/polymer. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement. See above for Health & Safety Considerations.