SECTION 1: IDENTIFICATION

Product identifier	Opti Duo-Cure Universal Emulsion
Product code	Opti Duo Cure Emulsion (ODC-HR42 / PHU-HR)
Other means of identification	Red one-part SBQ pure photopolymer, universal (solvent + water + UV) resistant garment emulsion. Base material: SAATI Textil PHU-HR (HR42).
Chemical type	Mixture - SBQ (stilbazolium quaternary) pre-sensitized photopolymer emulsion, water-based
Recommended use	Liquid photo-emulsion for producing screen-printing stencils. All-purpose solvent- and water-resistant photoemulsion; universally ink resistant; recommended for discharge inks; water-resistant when post-exposed.
Restrictions on use	For industrial and professional screen-printing use only.
Manufacturer / supplier	Champion Inks 200 S. Newman Street, Unit 4 & 5, Hackensack, NJ 07601, USA Base material supplier: SAATI S.p.A. / SAATI Americas, Fountain Inn, SC.
Telephone / web	+1 (302) 667-6096 - www.championinks.com - web@championinks.com
Emergency telephone (24-hr)	INFOTRAC - USA: +1-800-535-5053 - International: +1-352-323-3500 (24-hour)

SECTION 2: HAZARD(S) IDENTIFICATION

OSHA HCS / GHS classification	Not classified as hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200) / GHS. Health: not classified. Physical: not classified. Environmental: not classified.
Signal word	None
Pictograms	None
Hazard statements	None (product not classified).
Precautionary (good practice)	P262 Avoid contact with eyes and skin. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product (contains trace methanol). P280 Wear protective gloves and eye protection. P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes.
Hazards not otherwise classified (HNOC)	None known. This is a light-sensitive photopolymer emulsion - handle under yellow safelight; avoid daylight exposure to prevent premature curing.
Unknown acute toxicity	0% of the mixture consists of ingredients of unknown acute toxicity.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Wt %	GHS classification of component
Polyvinyl alcohol	25213-24-5	4 - 15	Not classified
Methanol (residual, from PVA)	67-56-1	< 1.5	Flam. Liq. 2 (H225); Acute Tox. 3 (H301+H311+H331); STOT SE 1 (H370) - present only as a trace residual
SBQ photopolymer, sensitizer, pigment and water	Proprietary / Mixture	Balance	Trade secret (not classified). Water is the primary carrier.

Private-labeled from the SAATI Textil PHU / Red one-part SBQ pure photopolymer, universal (solvent + water + UV) resistant garment emulsion Safety Data Sheet (U.S. HazCom GHS format, SAATI Chemicals). The finished emulsion is not classified. The SBQ photopolymer chemistry, sensitizer and pigment are withheld as a trade secret per 29 CFR 1910.1200(i). **[VERIFY]** Composition mirrors SAATI's own SDS for this SBQ pure-photopolymer emulsion family; confirm against the current SAATI SDS on file.

SECTION 4: FIRST-AID MEASURES

Eye contact	Rinse thoroughly with plenty of water. Consult a physician if irritation develops.
Skin contact	Wash with soap and water. Get medical attention if irritation develops or persists.
Inhalation	Move person to fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms / effects	Not expected to be hazardous. Possible mild mechanical irritation of eyes/skin.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	None known.
Specific hazards	Water-based emulsion; not flammable. Hazardous combustion products: carbon oxides (COx).
Protection for firefighters	NIOSH-approved self-contained breathing apparatus and full protective gear in a fire.
Flash point	Not applicable (water-based; VOC 0 g/L).

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear suitable protective equipment. Avoid slip hazard.
Environmental precautions	Do not contaminate soil, drains or waterways.
Containment and cleanup	Small spill: contain and wipe area with water-soaked towels. Large spill: soak up with absorbent (sand, earth, vermiculite), transfer to a container for disposal, then flush the area with water.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Handle under yellow safelight; avoid daylight, quartz/halogen and cool-white fluorescent lamps to prevent premature exposure.
Conditions for safe storage	Keep container closed to prevent drying out. Store cool and dark. Shelf life approx. 12-24 months from date of production.
Incompatible materials	Strong light sources (premature curing); none chemically significant.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Component (CAS)	OSHA PEL	ACGIH TLV	Notes
Polyvinyl alcohol (25213-24-5)	Not established	Not established	Nuisance dust/mist only
Methanol (67-56-1)	200 ppm TWA	200 ppm TWA / 250 STEL	Skin; trace residual only

Engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at end of workday.
Respiratory protection	Not normally required with adequate ventilation.
Eye / face protection	Safety glasses (NIOSH/ANSI-approved).
Skin protection	Chemical-resistant gloves; apron recommended.
General hygiene	Do not eat, drink or smoke in work areas; wash exposed skin promptly.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Property	Value
Physical state	Viscous liquid	Specific gravity	~ 1.05
Color	Red	pH	4 - 5
Odor	Slight	Percent volatile	~ 57 %
Solubility in water	Soluble	Viscosity	140 - 150 Poise at 25 deg C (Brookfield, 10 rpm)
Flash point	Not applicable	VOC	0 g/L

Property	Value	Property	Value
Flammability	Non-flammable (water-based)	Solids content	~ 42 %

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	None known.
Conditions to avoid	Heat, sunlight and other strong light sources.
Incompatible materials	None known.
Hazardous decomposition products	Carbon oxides on combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely routes of exposure	Skin and eye contact.
Acute toxicity	Polyvinyl alcohol: oral LD50 > 5000 mg/kg (rat); inhalation LC50 > 20 mg/L (rat, 1 h). Product not classified.
Skin / eye	May cause mild mechanical irritation; not classified as an irritant.
Carcinogenicity	No component listed by NTP, IARC or OSHA as a carcinogen.
Other	No CMR effects expected at the concentrations present.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No specific data. Avoid release to the environment; do not contaminate soil, sewers or waterways.
Persistence / degradability	Not determined.
Bioaccumulative potential	Not expected.
Mobility in soil	Water-soluble.
Other adverse effects	None known.

OSHA does not enforce the content of Sections 12-15, but they are required to maintain the GHS 16-section order.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods	Dispose of in accordance with all current local, state and federal regulations.
Contaminated packaging	Dispose of per regulations.

SECTION 14: TRANSPORT INFORMATION

US DOT	Not regulated as a dangerous good. Harmonized Tariff No. 3707.10.00.90.
IATA / IMDG	Not regulated.
Special precautions	None known.

SECTION 15: REGULATORY INFORMATION

US TSCA inventory	All components are listed on the TSCA Inventory.
SARA 311/312 hazard categories	None (product not classified).
SARA 313 (EPCRA) supplier notification	Contains methanol (CAS 67-56-1) < 1.5% - a listed toxic chemical; note for downstream reporting.
California Proposition 65	None listed. **[VERIFY]**
Canada WHMIS	Not a controlled product; all components on the DSL.

State Right-to-Know	Methanol may appear on NJ / PA / MA Right-to-Know lists.

SECTION 16: OTHER INFORMATION

Prepared by	Luis Uribe - Champion Inks (Regulatory / EHS)
Issue / revision date	November 24, 2026
Version	1.0 DRAFT - First issue under the Champion Inks brand. House format per OSHA HCS-2024 / GHS Rev. 7.
Change note	[VERIFY] Private-label of SAATI Textil PHU-HR (HR42). Hazard data taken directly from SAATI's Textil PHU SDS (U.S. HazCom GHS format, PVA 4-15%, methanol <1.5%). Confirm against SAATI's current PHU-HR SDS on file.

Disclaimer: The information herein is believed to be accurate and is provided in good faith but without warranty of any kind. It relates only to the specific product designated and may not be valid if used in combination with any other materials. The user is responsible for determining suitability and compliance with all applicable regulations. --- End of Safety Data Sheet