

Material Safety Data Sheet

Product Code: **Photochromic Solvent Screen Ink**

1. Product and Company Information

1.1 Product Identifiers:

Product Name: Photochromic Solvent Screen Ink

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Manufacture of temperature-indicating products and temperature-sensitive decorative effects.

1.3 Details of the supplier of the safety data sheet:

QCR Solutions Corp
P.O. Box 7850
Port Saint Lucie FL, 34985
Tel: 772-237-5354
Fax: 772-672-3544

1.4 Emergency Phone Number: 772-237-5354

2. Hazardous Identification

2.1 DANGER

EXTREMELY FLAMMABLE LIQUID AND VAPOR, VAPOR MAY CAUSE FLASH FIRE
MAY CAUSE EYE IRRITATION
MAY CAUSE ALLERGIC SKIN REACTION
(POSSIBLE) REPRODUCTIVE HAZARDS (CONTAINS MATERIAL THAT) MAY CAUSE ADVERSE REPRODUCTIVE EFFECTS (IN FEMALES) (IN MALES) (BASED ON ANIMAL DATA)

Properties

Color: Various colors according to type
Odor: Aromatic
State: Viscous liquid

3. Composition / Information on Ingredients

3.1 Substances

Hazardous Ingredients	Conc.	CAS
Heavy aromatic naphtha solvent	10-20%	64742-95-6
Light aromatic naphtha solvent	10-20%	64742-95-6

4,4'-Isopropylidenediphenol	1-10%	80-05-7
Formaldehyde	0-0.5%	50-00-0

4. First Aid Measures

Skin contact: Irritating to skin. Wash off immediately with plenty of soap and water for at least 15 minutes. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.

Eye contact: Irritating to eyes. Remove contact lens and rinse immediately with water for at least 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.

Inhalation: Irritating to respiratory system. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air. If symptomatic, seek medical attention.

Ingestion: Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.

5. Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use as appropriate: carbon dioxide (CO₂), dry chemical, foam.

5.2 Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes.

5.3 Special protective equipment and precautions for fire-fighters

Wear suitable respiratory equipment when necessary.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.



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6.2 Methods and materials for containment and cleaning up

Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

Waste disposal: This material must be disposed within accordance with federal, state, and local ordinances.

6.3 Environmental precautions

Do not allow to enter drains, sewers or watercourses.

7. Handling and Storage

7.1 Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing

7.2 Conditions for safe storage, including any incompatibles

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

8. Exposure Control & Personal Protection

Exposure Limits

1.) Formaldehyde

ACGIH TLV TWA: -
Notations: SEN; A2
OSHA PEL 8hr TWA Mg M3: -
ACGIH TLV STEL: C 0.3ppm
OSHA PEL 8hr TWA ppm: -
Skin Designator: -

2.) 4,4'-Isopropylidenediphenol

WEL 8-hr limit ppm: -
WEL 15 min limit ppm: -
WEL 8-hr limit mg/m3 total inhalable dust:-
WEL 8-hr limit mg/m3 total respirable dust:-
WEL 8-hr limit mg/m3: 10
WEL 15 min limit mg/m3: -
WEL 15 min limit mg/m3 total inhalable dust:-
WEL 15 min limit mg/m3 total respirable dust:-

8.1 Control parameters

Components with workplace control parameters.
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. If these are not sufficient to maintain concentrations of vapors below the relevant exposure limits, suitable respiratory protective equipment should be worn.

Personal protective equipment

Individual protection measures

Wear chemical protective clothing.

Eye/face protection

Approved safety goggles

Skin protection – Hand protection

Chemical resistant gloves (PVC).

Respiratory protection

Wear suitable respiratory equipment.

Environmental Exposure Controls

Appropriate local exhaust ventilation is required.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

FORM:	Viscous Liquid
COLOR:	Various
ODOR:	Aromatic
ODOR THRESHOLD:	no data available
pH:	no data available
MELTING POINT:	no data available
Decomposition temp:	no data available
BOILING RANGE:	no data available
FLASH POINT:	>23C
EVAPORATION RATE:	no data available
IGNITION TEMPERATURE:	no data available
FLAMMABILITY:	no data available
UPPER EXPLOSION LIMIT:	no data available
LOWER EXPLOSION LIMIT:	no data available
VAPOR PRESSURE:	no data available
VAPOR DENSITY:	no data available
RELATIVE DENSITY:	no data available
WATER SOLUBILITY:	no data available
VISCOSITY:	no data available
Specific Gravity:	no data available
Partition coefficient:	no data available

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9.2 Other safety information

no data available

10. Reactivity / Stability

10.1 Reactivity

Avoid sparks, flames, heat and sources of ignition.

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

Oxidizing agents

10.4 Conditions to avoid

Oxidizing agents. Heat, sparks and open flames

11. Toxicology Measures

11.1 Information on toxicological effects

Toxicological Information

Formaldehyde

Oral Mouse LD50: 42mg/kg

Skin Rabbit LD50: 270 mg/kg

Inhalation Rat LD50: 250ppm

4,4'-Isopropylidenediphenol

Oral Rat LD50: 4240 mg/kg

Oral Mouse LD50: 2500 mg/kg

Dermal Rabbit LD50: 3 mL/kg

Citric Acid

Oral Rat LD50: 5,400 mg/kg

Heavy aromatic naphtha Solvent

Oral Rat LD50: 8400 mg/kg

12. Ecological Information

12.1 Toxicity

Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

13. Disposal Considerations

13.1 Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance. Do not empty into drains, sewers or water-courses.

14. Transport Information

DOT (US)

DOT	3
Subsidiary risk	-
IMDG	3
Subsidiary risk	-
IATA	3
Subsidiary risk	-
Packing group	III
Environmental hazards	No
Marine Pollutant	No
ADR	
Hazard ID	33
Tunnel category	(D/E)
IMDG	
EmS Code	F-E S-E

IATA

Packing instructions (Cargo):	366
Maximum quantity	220 L
Packing instructions (passenger)	355
Maximum Quantity	60 L

15. Regulatory Information

Ingredient : Formaldehyde

TSCA: Yes

MA: Yes

SARA313: Y0.1

CALPROP65: Yes

CWA307: No

CAA112: No

CWA311: Yes

SARA302: Y 500

SARA304: Y 100

Ingredient : 4,4'-Isopropylidenediphenol

TSCA: Yes



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MA: Yes
SARA313: Y1.0
CALPROP65: No
CWA307: No
CAA112: No
CWA311: No
SARA302: No
SARA304: No

Ingredient : Heavy aromatic naphtha solvent

TSCA: Yes
MA: No
SARA313: No
CALPROP65: No
CWA307: No
CAA112: No
CWA311: No
SARA302: No
SARA304: No

carefully to become aware of the hazards, if any. In the interest of safety, you should notify your employees, agents, contractors, etc. of the information on this sheet and make it available to anyone using this product and request your customers to inform their employees, customers and agents as well.

The information contained in this SDS is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of this product and should not be construed as any guarantee of technical performance or suitability for particular applications.

Revision Date: October 10, 2014

16. Other Information

Revision: Revision 2 7/7/2015: Major revision to include the requirements of the HCS/HazCom 2012 Final Rule.

HMIS® Classification: (scale 0 – 4)

HEALTH	1
FLAMMABILITY	3
Physical Hazard	0

Protection: G

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health risks or hazards and should be used with caution. QCR Solutions Corp urges the customer receiving this SDS to study it