



Australian Specialty Inks Pty Ltd

ABN 71 002 591 620

17 Reaghs Farm Rd, Minto NSW 2566

Telephone: (02) 9603-3399 Fax (02) 9603-7761

Website: www.austspecialtyinks.com.au

ULTRA-V THINNER FUV180

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MATERIAL SAFETY DATA SHEET

Classified as hazardous according to criteria of Worksafe Australia.

Date of issue: June 2010

COMPANY DETAILS

AUSTRALIAN SPECIALTY INKS PTY LTD
A.B.N. 71 002 591 620
17 REAGHS FARM ROAD MINTO NSW
2566 (02) 9603 3399
A/H (02) 9792 7790 or mobile 0414 616 247

IDENTIFICATION

Trade Name: ULTRA-V THINNER FUV180
U.N. Number: 3082
Manufacturers Code: FUV180
Dangerous Goods Class: 9
Hazchem Code: None allocated
Poisons Schedule: Not regulated
Pack Group: III
Use: Product is used as an Ultra Violet curing screen printing ink thinner.

Flammability	1
Toxicity	3
Body Contact	3
Reactivity	3
Chronic	3
Scale:	
0 = Minimum to Nil	
1 = Low	
2 = Moderate	
3 = High	
4 = Extreme	

Physical Description/Properties:

Appearance @ 25 deg. C Clear liquid
VOC: Not Applicable
Evaporation Rate: No data
Boiling Point: 96.0 DEG C
Vapour Pressure at 20°C: <0.1 mm Hg
Vapour Density (AIR = 1) 3.80
Percent Volatiles: <0.1
Flash Point: 96.11 DEG.C
LEL: No data
Solubility in water: Practically insoluble

Ingredients

Chemical entity	CAS No.	Proportion	TLV
2-Pyrrolidinone, 1-Ethenyl	88-12-0	>99.0%	0.1ppm
Photoinitiators		<2.5%	NA



HEALTH HAZARD INFORMATION

A.S.I. RECOMMENDED EXPOSURE LIMIT: 0.1 PPM (VAPOUR). SEVERE EYE IRRITANT. ANIMAL STUDIES INDICATE THAT INHALATION CAN CAUSE LIVER AND NASAL DAMAGE. POSSIBLE CANCER HAZARD BASED ON ANIMAL STUDIES.

EMERGENCY OVERVIEW

CLEAR LIQUID
CAUSES SEVERE EYE IRRITATION
HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED
POSSIBLE CANCER HAZARD BASED ON ANIMAL STUDIES

POTENTIAL HEALTH EFFECTS

PRIMARY ROUTE(S) OF ENTRY: INHALATION / ABSORPTION / CONTACT.

SYMPTOMS OF INGESTION: MAY CAUSE NAUSEA AND VOMITING, POSSIBLY LEADING TO CONVULSIONS.

SYMPTOMS OF INHALATION: IF MISTED, WILL CAUSE PALLOR, NAUSEA, LACK OF COORDINATION, STUPOR.

SYMPTOMS OF SKIN CONTACT: ABSORPTION WILL CAUSE NAUSEA AND VOMITING, POSSIBLY LEADING TO CONVULSIONS.

SYMPTOMS OF EYE CONTACT: WILL CAUSE PAINFUL BURNING OR STINGING OF EYES AND LIDS, WATERING OF EYES AND INFLAMMATION OR CONJUNCTIVA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NO DATA FOUND.

FIRST AID

Swallowed: If conscious, give water to drink. Induce vomiting. Seek medical advice

Eye: Irrigate with copious quantities of water for a minimum of 15 minutes. Seek medical attention immediately.

Skin: Wash affected area thoroughly with soap and water. Pay particular attention to hair, nose, ears and other areas not easily cleaned. Remove contaminated clothing. Solvents should not be used to clean skin because of increased penetration potential.

Inhaled: Move to fresh air. Seek medical advice.

Advice to Doctor: Treat symptomatically. Effects can be delayed 24 to 48 hours.



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PRECAUTIONS FOR USE

Exposure Limits: TLV as shown in ingredients section.

Ventilation: General and localised ventilation is required to maintain vapour levels below TLV.

Personal Protection: Avoid eye and skin contact. Wear chemical goggles. Wear impervious chemical resistant gloves (Neoprene). Wear protective clothing as necessary to avoid skin contact. All exposed skin should be covered. If risk of exceeding TLV, wear NIOSH approved respirator for organic vapour or air supplied breathing apparatus. Contaminated clothing should be cleaned after use. Incinerate leather goods (including shoes). Avoid prolonged or repeated skin contact and observe good personal hygiene.

Flammability: Ventilation required to prevent build-up of vapour.

SAFE HANDLING INFORMATION

Storage and Transport: Dangerous Goods Class:	None allocated
Emergency Procedure Guide:	None allocated
Packaging Group:	None allocated

Store between 15^oC and 38^oC. Avoid direct sunlight. Loss of dissolved air, loss of polymerisation inhibitor, contamination with incompatible materials must be avoided. Materials to avoid are polymerisation initiators including peroxides, strong oxidizing agents, copper, copper alloys, carbon steel, iron, rust, and strong bases. Keep containers closed when not in use.

Spills and Disposal: No smoking or ignition sources. Avoid skin and eye contact. Contain and absorb with inert material eg: sand, soil, sawdust. Collect and seal in drums marked with "Avoid skin contact" for disposal. Dispose of, as permitted by local waste authority.

Fire/Explosion Hazard: High temperatures and fire conditions may cause rapid and uncontrolled polymerisation which can result in explosions and the violent rupture of storage vessels or containers.

Upon heating to decomposition may produce vapours that may be acidic and possibly toxic and may also include carbon monoxide, carbon dioxide, and oxides of nitrogen. Firefighters should wear full protective clothing and use self-contained breathing apparatus. Use water foam, dry chemicals or CO2 extinguishers.

Other Information: No data found.

Toxicology

Data available for 2-Pyrrolidinone, 1-Ethenyl component.

Oral:	Rat LD50	1500 mg/kg
Dermal:	Rabbit LD50	560 mg/kg
Inhalation:	Rat LC50	3.20 mg/L



Other Acute Toxicity:

Peroral; Rat; Irritant to mucous membrane of upper respiratory tract; narcotic effect.

Pharmacokinetics; Dog; The plasma half life was found to be < 30 minutes following single intravenous dose.

Sub Chronic oral toxicity:

Rat; 13-week gavage; increased liver weight at 40 mg/kg (females) and 60 mg/kg (males); liver damage at 100 mg/kg in both sexes.

Sub Chronic inhalation toxicity:

Subacute inhalation caused liver damage in rats at 15 ppm.

Sub Chronic miscellaneous toxicity:

No data found.

Aquatic Toxicity:

No data found.

Tumorigenicity:

Rat; 2-year inhalation; benign and malignant tumors observed in nasal mucosa of both sexes at 20 ppm and in males at 10 ppm; only benign were seen at 10 ppm in females and 5 ppm in both sexes; liver and laryngeal tumors at 20 ppm and liver damage at 5 ppm in both sexes.

Mutagenicity:

Primary rat hepatocyte unscheduled DNA synthesis assay; 0.284-9.09 microliter/ml; negative.

In vitro transformation of Balb/3T3 cells assay; 0.5 microliter/ml - 0.1 nanoliter/ml; negative.

Mouse lymphoma forward mutation assay; up to 5.0 microliter/ml; negative.

Ames assay: Negative (active & inactive).

In vitro cytogenicity - human lymphocytes; no chromosome-damaging (clastogenic) effects with or without activation.

Reproductive Toxicity: No data found.

Miscellaneous Toxicity: No data found.

Biodegradability: No data found.

2-Pyrrolidinone, 1-Ethenyl is a suspected human carcinogen. Care should be taken when using this product.



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Labeling Information:

Xi Irritant

N Dangerous to the environment

RISK PHRASES:

R20/21: Harmful by inhalation and in contact with skin.

R22: Harmful if swallowed.

R36/37: Irritating to eyes and respiratory system.

R38: Irritating to skin.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in aquatic environment.

SAFETY PHRASES:

S1/2: Keep locked up and out of reach of children.

S9: Keep container in a well-ventilated place.

S16: Keep away from sources of ignition - No Smoking

S24/25: Avoid contact with skin and eyes.

S28: After contact with skin, wash immediately with plenty of soap and water.

S29: Do not empty into drains.

S33: Take precautionary measures against static discharges.

S61: Avoid release to the environment.

Contact Point: Technical Director (02) 9787-3399

Date: June 2010