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RA30691-770**Material Safety Data Sheet** PAGE 1Date of issue: March 2010 issued by: AVT Paints Pty Ltd
Product name: **Ironlak Striker (Twin sketch Marker)****Classified as hazardous according to criteria of NOHSC****COMPANY DETAILS**

COMPANY: AVT Paints Pty Ltd
ADDRESS: Level 1, 59 the Esplanade
 Maroochydore, QLD 4558
 Australia
EMERGENCY TELEPHONE: 000 AVT Paints Pty Ltd
BUSINESS TELEPHONE: 61-7 3391 8122
BUSINESS HOURS ONLY: 8AM – 5PM (E.S.T.)
FAX: 61-7 3391 8133
EMAIL: ironlak@advancedvalvetech.com.au

OTHER INFORMATION:

Users should verify the currency of this data sheet if more than 5 years old.
 The information contained in this material safety data sheet is believed to be accurate on the date of issue and in accordance with the information available to us. Persons dealing with products referred to in this MSDS do so at their own risk. We accept no liability whatsoever for damage or injury however caused arising from use of this information or of suggestions contained herein.

IDENTIFICATION

PRODUCT NAME Ironlak Striker (Twin Sketch Marker)
PROPER SHIPPING NAME Liquid Ink
OTHER NAMES not available
UN CLASS 1170
DG CLASS 3
SUB RISK Nil
HAZCHEM CODE 3WE
POISONS SCHEDULE S5
PRODUCT USE Artist drawing marker

PHYSICAL DATA

APPEARANCE various coloured liquid in marker pen
BOILING POINT (Ethanol) 78.4°C
FLASH POINT 15.5°C
FLAMMABILITY LIMITS Not Known
SOLUBILITY IN WATER not soluble (for liquid concentrate)

INGREDIENTS

NAME	PROPORTION
Ethanol	60%-80%
Isoproponal	5%-10%
N-Proponal	5%-10%
Ional CP	<1%
Octylphenoxyethoxyethanol	<1%

HEALTH HAZARD INFORMATION**HAZARD CATEGORY**

Xi Irritant
 F Flammable

RISK PHASES

R11 Flammable
 R36 Irritating to eyes
 R37 Irritating to respiratory system
 R38 Irritating to skin

HEALTH EFFECTS**ACUTE**

SWALLOWED Moderately toxic when ingested. Ingestion may cause irritation of the gastrointestinal tract.
EYE Direct contact may cause moderate to severe eye irritation. Contact with liquefied gas will cause severe damage.

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SKIN Prolonged contact with skin may lead to irritation and in some cases irritant contact dermatitis. Contact with liquefied gas can result in cold contact burns.

INHALED Inhalation of Ethanol vapour may result in nervous system effects such as dizziness, nausea, headache and sleepiness. Excessive exposure to vapour may cause unconsciousness or even death, due to asphyxiation.

CHRONIC Prolonged or repeated skin contact may lead to irritation contact dermatitis.

FIRST AID

SWALLOWED Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 240 to 300mL (8 to 10 oz.) of water. If vomiting occurs naturally, rinse mouth and repeat administration of water. Obtain medical attention immediately.

EYE Flush eyes with fresh water for at least 15 minutes. Obtain medical attention immediately.

SKIN Remove contaminated clothing, shoes and leather goods. As quickly as possible, flush contaminated area with lukewarm soapy water, gently running water for at least 20 minutes, by the clock. If irritation persists, repeat flushing. Obtain medical attention immediately.

INHALED If symptoms are experienced, move the victim to fresh air. Keep patient warm and at rest. If breathing is irregular or has stopped administer artificial respiration. Seek medical attention if any effects persist.

ADVICE TO DOCTOR

ADVICE TO DOCTOR Treat symptomatically. Advise doctor of the presence of Ethanol.

PRECAUTIONS FOR USE

EXPOSURE LIMITS	Name	STEL		TWA	
		mg/m ³	ppm	mg/m ³	ppm
	acetone				750ppm

ENGINEERING CONTROLS Use in well ventilated areas. Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use with local flameproof exhaust ventilation or while wearing organic vapour respirator. Vapour is heavier than air – prevent concentrations in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Explosive gas atmospheres may form, for further information refer to AS 2430.

PERSONAL PROTECTION

RESPIRATOR TYPE Where ventilation is not adequate, respiratory protection may be required. An approved organic vapour respirator should be used. Respiratory protection should comply with AS/NZS 1715 and AS/NZ 1716

EYE PROTECTION Safety glasses or chemical goggles. Failure to do so may result in eye damage if an accident occurs. Consult AS 1336 & AS/NZ 1337 for information about eye protection

GLOVE TYPE Available information suggests gloves made nitriles, viton, neoprene or other similar solvent resistant material. Keep solvent contact to a minimum. For help in selecting suitable gloves consult AS 2161

CLOTHING Overalls or similar protective clothing. Consult AS 2919 for advice

Always wash hands before smoking, eating, drinking, or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

FLAMMABILITY

FIRE HAZARDS

- Heat or damage to containers may release flammable gases
- Containers will explode when heated – ruptured containers will rocket
- Released gases may form explosive mixtures with air in confined spaces.
- Released gases may travel to source of ignition and flash back.
- Organic chemicals may form flammable dust clouds in air; will burn if involved in fire.
- Fire may produce irritating, poisonous and/or corrosive gases.

SAFE HANDLING INFORMATION

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STORAGE INCOMPATIBILITY

Avoid storage with oxidisers

STORAGE REQUIREMENTS

- Store in original containers in approved flameproof area
- DO NOT store in pits, depressions, basements or areas where vapours may be trapped
- No smoking, naked lights, heat or ignition sources.
- Keep containers securely sealed. Contents under pressure
- store away from incompatible materials.
- store in a cool, dry, well ventilated area in an upright position out of direct sunlight
- avoid storage at temperatures higher than 40 °C
- protect containers against physical damage and check regularly for leaks

SAFE HANDLING INFORMATION (continued)

TRANSPORTATION

- S5 scheduled poison
UN 1950
CLASS 2.1
-Flammable gases shall not be loaded in the same vehicle or packed in the same freight container with:
-Class 1 explosives
-Class 3 flammable liquids (where both flammable liquids and gases are in bulk)
-Class 4.1 flammable solids
-Class 4.2 spontaneously combustible substances
-Class 4.3 dangerous when wet substances
-Class 5.1 oxidising agents
-Class 5.2 organic peroxides
-Class 7 radioactive substances

TRANSPORTATION BY LAND (49CFR): ORM-D, UN1950

TRANSPORTATION BY AIR (ICAO/IATA): UN1950, AEROSOL EXTREMELY FLAMMABLE, 2, LTD QTY

TRANSPORTATION BY SHIP (IMO/IMDG): UN1950, AEROSOL, 2, LTD QTY, NOT A MARINE POLLUTANT

SPILL OR LEAK

Eliminate all ignition sources (no smoking, flares, sparks or flames) within at least 15m. Isolate area until gas has dispersed. All equipment used when handling the product must be earthed. Restrict access to area until completion of clean up. Ensure clean up is conducted by trained personnel only. Wear protective clothing including facemask, face shield and gauntlets. Ventilate the area. Prevent material from entering sewers or confined spaces. Stop or reduce leak if safe to do so. Contain spill with earth, sand or inert absorbent material. Small spills of solution: soak up with absorbent material. Put material in suitable, covered, labelled containers. Flush area with water preventing runoff entering drains. Large spills: contact fire and emergency services for advice.
Disposal: review federal, state and local government requirements prior to disposal.

FIRE/EXPLOSION HAZARDS

HAZARDS

- Vapour is flammable
- Severe fire hazard when exposed to heat or flame
- Vapour forms explosive mixture with air
- Vapour may travel considerable distance to source of ignition.
- Heating may cause expansion with violent container rupture.
- Aerosol cans may explode on exposure to naked flames
- Rupturing containers may rocket and scatter burning materials
- Hazards may not be restricted to pressure effects
- Organic chemicals may form flammable dust clouds in air; will burn if involved in fire.
- May emit acrid, poisonous or corrosive fumes.
- On combustion, may emit toxic fumes of carbon monoxide (CO)
- Other combustion products include carbon dioxide (CO₂)

FIRE/EXPLOSION HAZARDS

EMERGENCY RESPONSE

- Small fire
-Use water spray, dry chemical or CO₂
- Large fire
-Use water spray and fog
-Fight fire from protected position or use unmanned hose holders or monitor nozzles.
-If safe to do so, move undamaged containers from fire area – Do not approach hot containers
-Cool containers with water before handling
-If impossible to extinguish fire, protect surroundings, withdraw from area and allow fire to burn.

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CONTACT POINTS

POLICE AND FIRE BRIGADE:	DIAL	000 / 911
FOR EMERGENCY RESPONSE:	DIAL	1800 635 526
NATIONAL POISONS INFORMATION CENTRE:	DIAL	13 11 26

DATE OF PREPARATION: 19 March 2010

END OF REPORT
