



## MATERIAL SAFETY DATA SHEET

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<b>MANUFACTURER:</b>	KRINK	<b>24 HOUR EMERGENCY TELEPHONE</b>
		CHEMTREC 800-424-9300
<b>ADDRESS:</b>	109 South 5 <sup>TH</sup> Street, #207 Brooklyn, NY 11211	<b>TELEPHONE NO. FOR INFORMATION</b>
		(718) 624-9109
<b>TELEPHONE:</b>	(718) 624-9109	
<b>IDENTITY:</b>	Aqueous Marking Pen	<b>PRODUCT CLASS:</b> Water Based Marking Pen
<b>ITEM NO:</b>	XV12118, XV12120, XV12122	<b>OTHER NAMES:</b> TransAqua
<b>COLORS:</b>	Violet, Blue, Red	<b>DATE PREPARED:</b> October 5, 2011

### SECTION 2. COMPOSITION INFORMATION ON INGREDIENTS

Ingredient	CAS No.	OSHA PEL	ACGIH-TLV	Recommended	%
Water	7732-18-5			No Data	60.00
Acrylic Polymer	8432P	No Data	No Data	No Data	15-20
Red	6655-84-1	No Data	No Data	No Data	10-12
Violet	57-55-6	No Data	No Data	No Data	10-12
Blue	147-14-8	No Data	No Data	No Data	10-12
Amorphous Silica	112945-52-5	No Data	No Data	No Data	0.3-.5
2-amino-2-methyl-1-propanol	124-68-5	No Data	No Data	No Data	0.30
Glycerin	56-81-5	No Data	No Data	No Data	3.0

### SECTION 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Black Liquid; Mild Odor; Eye Irritant; Skin Irritant; Respiratory Irritant.

The TransAqua Permanent Paint Marker contains 15 ml of liquid. The liquid contents are only released in a controlled manner when the tip of the pen is pressed. No free liquid is present under normal conditions of use. This product presents only a minimal fire and exposure hazard.

#### HEALTH HAZARDS

**INGESTION:** Ingestion of liquid contents may cause vomiting.  
**EYES:** This product is a skin irritant based on similar materials.  
**SKIN:** This product is a skin irritant based on similar materials.  
**INHALATION:** Vapors of this material will probably irritate mucous membranes, eyes, nose, and respiratory passages.  
**CHRONIC EXPOSURE:** Triethylamine: May cause effects on liver, kidney, heart and exposure to vapor may cause temporary blurred vision.

### SECTION 4. FIRST AID MEASURES

**INHALATION:** Remove victim to fresh air. If a cough or other respiratory symptoms develop, consult medical personnel.

**SKIN CONTACT:** Wash off skin with plenty of soap and water. If redness, itching or a burning sensation develops, get medical attention. Wash contaminated clothing and decontaminate footwear before reuse.

**EYE CONTACT:** Immediately flush with plenty of water for at least 15 minutes. If redness, itching or a burning sensation develops have eyes examined and treated by medical personnel.

**INGESTION:** DO NOT INDUCE VOMITING. Give one or two glasses of water to drink and refer to medical personnel or take direction from either a physician or a poison control center. Never give anything by mouth to an unconscious person.

#### SECTION 5. FIRE FIGHTING MEASURES

**FLASH POINT:** >100°C (>212°F)

**FLAMMABLE LIMITS:** No Data.

**EXTINGUISHING MEDIA:** Use water fog, alcohol foam, carbon dioxide, dry chemical halogenated agents.

**SPECIAL PROCEDURES:** Material will not support combustion unless water has evaporated.

**SPECIAL PROTECTIVE EQUIPMENT:** Wear self-contained breathing apparatus with full facepiece and protective clothing

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear skin, eye and respiratory protection during cleanup.

**METHOD FOR CLEANING UP:** Contain spill. Soak up material with absorbent and shovel into a chemical waste container.

#### SECTION 7. HANDLING AND STORAGE

**HANDLING:** Avoid breathing vapors. Prevent skin and eye contact. Normal chemical handling and storage. This product, which is an aqueous dispersion of a polymer, may be difficult to remove without injuring the skin if allowed to dry.

**STORAGE REQUIREMENTS:** Keep marker tightly sealed. Store in a cool, well ventilated area away from heat, sources of ignition, direct sunlight, and incompatible materials. Keep from freezing.

#### SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

<u>Ingredient</u>	<u>Source</u>	<u>Type</u>	<u>Value</u>	<u>Remarks</u>
2-amino-2-methyl-1-propanol	ACGIH	Threshold Limit Values (TLV):	1 ppm 4.1 mg/m <sup>3</sup>	
	ACGIH	Short Term Exposure Limit (STEL):	3 ppm 12 mg/mg <sup>3</sup>	Can be absorbed through the skin.
	ACGIH	Skin designation:		
	OSHA Z1	PEL:	25 ppm 100 mg/m <sup>3</sup>	

**ENGINEERING MEASURES:** Use ventilation adequate to maintain safe levels. Open containers in well ventilated areas to avoid inhalation of accumulated residual monomers or other volatile components which may be present at trace levels.

**EYE PROTECTION:** Wear safety glasses with side shields.

**SKIN PROTECTION:** Wear impervious gloves and apron.

**RESPIRATORY PROTECTION:** If needed, NIOSH certified respirator for organic vapors, mists and fumes.

**HYGENIC MEASURES:** Eyewash station and safety shower in work area.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>FORM:</b>	Liquid	<b>BOILING POINT:</b>	>100°C (>212°F)
<b>COLOR:</b>	Various	<b>DENSITY WATER SOLUBILITY:</b>	1.04 g/ m <sup>3</sup>
<b>ODOR:</b>	Mild	<b>pH:</b>	8.2 to 8.5

### SECTION 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** No known conditions of instability.

**MATERIALS TO AVOID:** Strong oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon oxides. Nitrogen oxides.

**HAZARDOUS REACTIONS:** Not known to occur

### SECTION 11. TOXICOLOGICAL INFORMATION

**REPEATED DOSE TOXICITY:** Triethylamine: Exposure to vapor may cause minor transient edema of the corneal epithelium. This condition, referred to as "glauropsia," produces a blurring of vision against a general bluish haze and the appearance of halos around bright objects. The effect disappears spontaneously within a few hours of the end of an exposure and leaves no sequelae. Animal studies showed that repeated or prolonged exposures caused kidney and liver damage at 50 ppm. Heart tissue was affected at 100 ppm.

#### Carcinogenicity:

Regulatory List	Chemical	Category / Classification
NTP	N.D.	
IARC	N.D.	
OSHA	N.D.	

**IARC:** (International Agency for Research on Cancer)  
Group 2B – The agent is possibly carcinogenic to humans  
Group 3 – The agent is not classifiable as to its carcinogenicity in humans.

**NTP:** (National Toxicity Program)

### SECTION 12. ECOLOGICAL INFORMATION

No data is currently available.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Discarded product is not a hazardous waste under RCRA, but may be regulated by other jurisdictions.

**CONTAINER DISPOSAL:** Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue from container and puncture or otherwise destroy empty container before disposal.

**SECTION 14. TRANSPORT INFORMATION**

**Proper Shipping Name:** Not regulated by US DOT.

**SECTION 15. REGULATORY INFORMATION**

**TSCA (TSCA Substances Act)** : All components are on the TSCA Chemical Substances Inventory.

**CEPA (Canadian Environmental Protection Act)** : All components are listed on the DSL with the exception of the following, which are listed on the NDSL: Proprietary NDSL Chemical 0.80 %

**SARA Title III (Emergency Planning and Community Right-To-Know Act)** : This product does not contain any chemicals subject to the reporting the reporting requirements of SARA Section 313.

**California Proposition 65** : This product is not known to contain any chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

**Canada**

**WHMIS Classification:** This is not a (WHMIS) controlled product in Canada.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

**SECTION 16. OTHER INFORMATION**

**HMIS and NFPA Ratings:** 1 (Health), 1 (Flammability), 0 (Reactivity), B (Personal Protection) (4=extreme, 3=high, 2=moderate, 1=slight, 0=least) (B=gloves & safety glasses).

This information provided in the Material Safety Data Sheet has been compiled from our experience and data with similar commercially available materials and is believed to be accurate. No guarantee of accuracy is made. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions and disposal procedures. THE MANUFACTURER AND DISTRIBUTOR SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT.