



## **SAFETY DATA SHEET**

### **1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**Product Identifiers:**

**Product Name:**

**Kara-02-1K**

**Product Form:**

Water Base Ink for Direct Print to Screen

**Intended use of the product:**

Direct print on Screen Black Ink

**Details of the supplier of the safety data sheet**

**Company Name:**

M&R Printing Equipment, Inc.

**Address:**

440 Medinah Road  
Roselle, IL 60172-2329 USA

**Telephone Number:**

(800) 736-6431

**Emergency Telephone Number:**

Chemtrec: within USA and Canada: 1-800-441-3637

Within USA (Toll-Free): +1 (703) 741-5970

Outside USA and Canada: 1-800-424-9300

### **2. HAZARDS IDENTIFICATION**

**Classification of the substance or mixture**

**GHS-US Classification**

Acute toxicity/oral (Cat. 4)

Skin corrosion/irritation (Cat. 3)

Eye damage/irritation (Cat. 2B)

**Label Elements**

**GHS Labeling:**

Hazard Pictograms (GHS-US):



GHS07

Signal Word (GHS-US):

Warning

Hazard Statements (GHS-US):

H302 – Harmful if swallowed

H316 - Causes mild skin irritation

H320 - Causes eye irritation

Precautionary Statements (GHS-US):

P301 + P312 – IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell

P330 – Rinse mouth

P264 - Wash face thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing.

P332 + P337 + P313 – If skin or eye irritation occurs/persists: Get medical advice/attention

P501 - Dispose of contents/container in accordance with local / regional / national / international regulations

**Other Hazards:**

No data available

**Unknown acute toxicity (GHS US):**

No data available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Description:** Mixture of dyes and glycols in water based

**Hazardous ingredients:**

Chemical Designation	CAS No.	Concentration
WATER	7732-18-5	50-90%
ACETALDEHYDE	75-07-0	< 0.1%
GYCERINE	56-81-5	5-30%

Components not listed are either non-hazardous or are below reportable limits

### 4: FIRST AID MEASURES

**Description of first aid measures**

**First Aid Measures General:**

Remove contaminated clothing

**First-aid measures after inhalation:**

Remove to fresh air. If breathing is difficult, give oxygen and get immediate medical attention.

**First-aid measures after skin contact:**

Wash affected area thoroughly with soap and water. If any irritation develops, consult a Physician.

**First-aid measures after eye contact:**

Flush with plenty of cool water for at least 15 minutes, holding eyelids apart for thorough irrigation. Get immediate medical attention.

**First-aid measures after ingestion:**

Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

**Most important symptoms and effects, both acute and delayed:**

THIS PRODUCT IS NOT HAZARDOUS AS DEFINED BY HAZARDOUS COMMUNICATION STANDARD. HOWEVER, AS WITH ALL CHEMICAL; HANDLE WITH CARE AVOID EYE & SKIN CONTACT, AVOID INHALATION OF DUSTS OR VAPORS. WASH THOROUGHLY AFTER HANDLING. KEEP CONTAINERS CLOSED.

**Indication of any immediate medical attention and special treatment needed:**

No additional information

### 5: FIREFIGHTING MEASURES

**Extinguishing media**

**Suitable Extinguishing Media:**

WATER, DRY CHEMICAL CARBON DIOXIDE FOAM

**Unsuitable Extinguishing Media:**

**Special hazards arising from the substance or mixture:**

NONE EXPECTED. FIREFIGHTERS SHOULD BE EQUIPPED WITH SELF- CONTAINED BREATHING APPARATUS TO GUARD AGAINST POTENTIALLY TOXIC AND IRRITATING FUMES. AVOID DUSTING. DUST CAN FORM EXPLOSIVE MIXTURES WITH AIR.

**Fire Hazard:**

N/A

**Explosion Hazard:**

N/A

**Reactivity:**

N/A

**Advice for firefighters**

**Firefighting Instructions:**

WEAR SELF-CONTAINED BREATHING APPARATUS.

**Protection during firefighting:**

Wear fully protective suit.

### 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**General Measures:**

Remove persons from danger area.

**For non-emergency personnel**

**Protective equipment:**

**Emergency procedures:**

No additional information

**For emergency responders**

**Protective equipment:**

See Section 8 for information on personal protection equipment.

**Emergency procedures:**


No additional information

<b>Environmental precautions:</b>	Avoid any uncontrolled release of material. Do not empty into drains or the aquatic environment.
<b>Methods and materials for containment and cleaning up</b>	
<b>For containment:</b>	Where spills are possible, a comprehensive spill response plan should be developed and implemented. Steps to be taken if material is released or spilled are as follows: Utilize recommended protective clothing and equipment. Spills should be swept by using an absorbent dust control product and placed in containers.
<b>For cleaning up:</b>	Spill area can be washed with water. Collect water for approved disposal. In the event of an uncontrolled release of this material, the user should determine if the release is reportable under applicable laws and regulations.
<b>Reference to other sections:</b>	No additional information available.

## 7. HANDLING AND STORAGE

<b>Precautions for safe handling</b>	
<b>Additional hazards when processed:</b>	N/A
<b>Precautions for safe handling:</b>	LIQUID - DO NOT FREEZE. Handle with care. Wear APPROPRIATE PROTECTION: GOGGLES, GLOVES and WORK CLOTHING. Over exposure may CAUSE IRRITATION. AVOID BREATHING FUMES. KEEP IN WARM AREA. WASH AFTER HANDLING. * * STIR BEFORE USING. * *
<b>Hygiene measures:</b>	N/A
<b>Conditions for safe storage, including any incompatibilities</b>	
<b>Technical measures:</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Handle with CARE. AVOID over exposure. Use NIOSH/OSHA APPROVED RESPIRATOR, WORK GLOVES and CLOTHING. WASH after handling. SENSITIVE INDIVIDUALS MAY EXPERIENCE RESPIRATORY ALLERGIES. MAY CAUSE SKIN IRRITATION. USE WITH LOCAL VENTILATION.
<b>Storage conditions:</b>	Keep away from heat. Keep away from sources of ignition.
<b>Incompatible products:</b>	
<b>Incompatible materials:</b>	
<b>Storage area:</b>	Keep away from strong oxidizing and reducing agents
<b>Special rules on packaging:</b>	None

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Control parameters</b>	
Ingredients with limit values that require monitoring at the workplace:	Not required.
<b>Exposure controls</b>	
Appropriate engineering controls:	The usual precautionary measures are to be adhered to when handling chemicals.
<b>Personal protective equipment:</b>	
	
Hand protection:	Wear protective gloves
Eye protection:	Tightly sealed safety goggles or full face shield
Skin and body protection:	Wear suitable protective clothing
Respiratory protection:	Dust Mask
Thermal hazard protection:	N/A
Other information:	No additional information

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance</b>	
Physical state, appearance, color, odor	BLACK LIQUID/NO ODOR
Odor Threshold:	No data
pH:	8-9
Melting Point/Freezing Point:	No data
Initial boiling point/boiling range:	N/A
Flashpoint:	NORMALLY STABLE, NOT COMBUSTIBLE NOR FLAMMABLE.
Evaporation rate:	No data
Flammability (solid, gas):	NORMALLY STABLE, NOT COMBUSTIBLE NOR FLAMMABLE.
Upper explosive limits:	N/A
Lower explosive limits:	N/A
Vapor pressure:	No data
Vapor density:	No data
Relative density:	N/A
Solubility in water:	Yes
Partition coefficient n-octanol/water:	No data
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity, dynamic:	4.5-6 cps
Viscosity, cinematic:	No data
Explosive properties:	N/A
Oxidizing properties:	N/A

### Other information

No additional information available

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No data
<b>Chemical stability:</b>	Stable
<b>Possibility of hazardous reactions</b>	
No additional information available	
<b>Conditions to avoid:</b>	OXIDIZING & REDUCING AGENTS MAY DESTROY COLOR.
<b>Incompatible materials:</b>	OXIDIZING & REDUCING AGENTS MAY DESTROY COLOR.
<b>Hazardous decomposition products:</b>	CO, CO <sub>2</sub> , OXIDES OF NITROGEN AND OTHER POTENTIALLY TOXIC FUMES.

## 11: TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Oral (Animal):	GREATER THAN 5000 MG/KG - RAT
Dermal (animal):	NO DATA AVAILABLE.
Effects to eyes (Animal):	EYES - RABBIT, NOT IRRITATING.
Skin irritation (Animal):	SKIN - RABBIT, NOT IRRITATING.
<b>Skin corrosion/irritation:</b>	Not classified
<b>Serious eye damage/irritation:</b>	Causes eye irritation.

<b>Respiratory or skin sensitization:</b>	Not classified
<b>Germ cell mutagenicity:</b>	Not classified
<b>Carcinogenicity:</b>	Not classified
<b>Reproductive toxicity:</b>	Not classified
<b>Specific target organ toxicity (single exposure):</b>	Not classified
<b>Aspiration hazard:</b>	Not classified
<b>Symptoms/injuries after inhalation:</b>	May cause drowsiness or dizziness.
<b>Symptoms/injuries after eye contact:</b>	Causes eye irritation.
<b>Symptoms/injuries after ingestion:</b>	Ingestion may cause nausea, vomiting and diarrhea.

## 12. ECOLOGICAL INFORMATION

<b>Toxicity:</b>	LC0 greater than 100mg/l (96h) Brachydanio rerio.
<b>Persistence and degradability:</b>	No data available
<b>Bioaccumulative potential:</b>	No data available
<b>Mobility in soil:</b>	No data available
<b>Other adverse effects:</b>	No additional information available

## 13. DISPOSAL CONSIDERATIONS

<b>Waste treatment methods</b>	
<b>Regional legislation (waste):</b>	Dispose of only in an approved land-fill area or by controlled incineration in accordance with local and State regulations.
<b>Waste disposal recommendations:</b>	Empty container thoroughly. Carry out the proper recycling, re-usage or disposal. Please refer to the relevant EU regulations, in particular the guidelines/ decisions of the council regarding handling of wastes (e.g. 75/442/EEC, 91/689/EEC, 94/67/EC, 94/904/EC) as implemented in national regulations.

## 14. TRANSPORT INFORMATION

<b>UN number:</b>	Not regulated
<b>UN proper shipping name:</b>	Not regulated
<b>Transport hazard class(es):</b>	
• Department of Transportation (DOT):	Not hazardous for transportation
• IMDG:	Not hazardous
• IATA:	Not hazardous
<b>Hazard labels (DOT):</b>	N/A
<b>Packing group (DOT):</b>	N/A
<b>DOT Special provisions:</b>	N/A
<b>Additional information</b>	
<b>Overland transport:</b>	NONE
<b>Transport by sea:</b>	NONE
<b>Air transport:</b>	NONE
<b>DOT Quantity Limitations Passenger Aircraft:</b>	No additional information
<b>DOT Quantity Limitations Cargo Aircraft:</b>	No additional information

## 15. REGULATORY INFORMATION

<b>US Federal regulations:</b>	The substances contained in this mixture are listed on United States TSCA (Toxic Substance Control Act) inventory.
<b>US State regulations:</b>	None

### Other regulations

Chemical Identity	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
MIXTURE	X	-	-	-	-	-	-	-	-	-

TSCA Status: IN COMPLIANCE  
E C Classification: (67/548/EEC – 88/379/EEC) n/a  
EINECS Number:  
REACH Classification:  
R-phrases:

Additional Regulatory Information:

<b>16. OTHER INFORMATION</b>
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Indication of changes: N/A  
Other information: N/A

**GHS Full Text Phrases:**

H302	Harmful if swallowed
H316	Causes mild skin irritation
H320	Causes eye irritation

**NFPA Rating:** No data available  
**HMIS Rating:** Health: 1  
Flammability: 0  
Reactivity: 0  
Personal Protection: D

**DISCLAIMER:** The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the users' responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use of this information. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.