



The M&R Companies

Safety Data Sheet (SDS)

Issued Date January 16, 2019 / Version # : 01

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifiers:

Product Form: Water Base Ink for Direct Print to Screen
 Product Name: **KARA-01-1K**
 Color Index: BLACK
 CAS number: MIXTURE
 Formula: **WDPS-R**

Intended Use of the Product:

Direct print on Screen Black Ink

Name, Address, and Telephone of the Responsible Party

The M&R Companies Telephone +1 (800) 736-6431
440 Medinah Road
Roselle, IL 60172 U.S.A

EMERGENCY TELEPHONE NUMBER

For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call Chemtrec
 - Emergency Number(s): Within US and Canada: +1 (800) 424-9300 Outside US and Canada: +1 (703) 741-5970

SECTION 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 Labelling:

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

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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

SECTION 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	10-40
ACETALDEHYDE	75-07-0	< 0.1%

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

SECTION 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

SECTION 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

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Explosion Hazard: N/A

Reactivity: N/A

Advice for firefighters

Firefighting Instructions: WEAR SELF-CONTAINED BREATHING APPARATUS.

Protection during firefighting: Wear fully protective suit.

SECTION 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

Environmental precautions: Avoid any uncontrolled release of material. Do not empty into drains or the aquatic environment.

Methods and materials for containment and cleaning up

For containment: 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.

For cleaning up: 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.

Reference to other sections

No additional information available.

SECTION 7: Handling and storage

Precautions for safe handling

Additional hazards when processed: N/A

Precautions for safe handling: 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. * *

Hygiene measures: N/A

Conditions for safe storage, including any incompatibilities

Technical measures: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

Storage conditions: 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.

Incompatible products: Keep away from heat. Keep away from sources of ignition.

Incompatible materials:

Storage area: Keep away from strong oxidizing and reducing agents

Special rules on packaging: None

SECTION 8: Exposure controls / personal protection

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Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

Exposure controls

Appropriate engineering controls:

The usual precautionary measures are to be adhered to when handling chemicals.

Personal protective equipment:



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

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	
Physical state, appearance, color, odor	BLACK LIQUID/NO ODOR
Odor Threshold:	No data
pH:	8-9
Melting Point/Freezing Point:	ND
Initial boiling point/boiling range:	NA
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:	ND
Vapor density:	ND
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	8-10 cps
Viscosity, cinematic	No data
Explosive properties	N/A
Oxidizing properties	N/A

Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity: No data

Chemical stability: Stable

Possibility of hazardous reactions

No additional information available

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Conditions to avoid: OXIDIZING & REDUCING AGENTS MAY DESTROY COLOR.

Incompatible materials: OXIDIZING & REDUCING AGENTS MAY DESTROY COLOR.

Hazardous decomposition products: CO, CO₂, OXIDES OF NITROGEN AND OTHER POTENTIALLY TOXIC FUMES.

SECTION 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.

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Causes eye irritation.

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Not classified

Aspiration hazard: Not classified

Symptoms/injuries after inhalation: May cause drowsiness or dizziness.

Symptoms/injuries after eye contact: Causes eye irritation.

Symptoms/injuries after ingestion: Ingestion may cause nausea, vomiting and diarrhea.

SECTION 12: Ecological information

Toxicity:

LC0 Greater than 100mg/l (96h) Brachydanio rerio.

Persistence and degradability: No Data Available

Bioaccumulative potential: No Data Available

Mobility in soil: No Data Available

Other adverse effects: No additional information available

SECTION 13: Disposal considerations

Waste treatment methods

Regional legislation (waste): Dispose of only in an approved land-fill area or by controlled incineration in accordance with local and State regulations.

Waste disposal recommendations: 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.

SECTION 14: Transport information

UN number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class(es):

- **Department of Transportation (DOT):** Not hazardous for transportation

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- **IMDG:** Not hazardous
- **IATA:** Not hazardous

Hazard labels (DOT): N/A

Packing group (DOT): N/A

DOT Special provisions: N/A

Additional information

Overland transport: NONE

Transport by sea: NONE

Air transport: NONE

DOT Quantity Limitations Passenger Aircraft: No additional information

DOT Quantity Limitations Cargo Aircraft: No additional information

SECTION 15: Regulatory information

US Federal regulations:

The substances contained in this mixture are listed on United States TSCA (Toxic Substance Control Act) inventory.

US State regulations: 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:

SECTION 16: Other information

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

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