

Material Safety Data Sheet

May be used to comply with
 OSHA's Hazard Communication Standard
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072



IDENTITY
 WARD'S DNA Stain

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name Ward's Natural Science	Emergency Telephone Number 800-424-9300 (CHEMTREC)
Address (Number, Street, City, State, and ZIP Code) 5100 W. Henrietta Rd.	Telephone Number for Information 716-359-2502
P.O. Box 92912	Date Prepared 9/1/97
Rochester, NY 14692-9012	Signature of Preparer (Kenneth G. Rainis) <i>[Signature]</i>

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	%
Proprietary Cationic Dye	N/A	N/A	N/A	0.1
Distilled Water CAS 7732-18-5	N/A	N/A	N/A	99.9

LOW HAZARD

Section III - Physical/Chemical Characteristics

Boiling Point 212°C	Specific Gravity (H ₂ O = 1) 1 (Water)
Vapor Pressure (mm Hg) 14 (Water)	Melting Point 0°C
Vapor Density (AIR = 1) 0.7 (Water)	Evaporation rate (Butyl Acetate = <1)
Solubility in Water Complete	
Appearance and Odor Dark blue liquid, No odor	

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits	LEL N/A	UEL N/A
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Extinguishing Media
 Water spray, carbon dioxide, dry chemical powder or appropriate form.

Special Firefighting Procedures
 Wear self-contained breathing apparatus and protective clothing to prevent contact with skin.

Unusual Fire and Explosion Hazards
 Emits fumes of carbon monoxide, carbon dioxide, nitrogen oxides, and sulfur oxides under fire conditions.

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid Protect from light and excessive heat.
	Stable	
Incompatibility (Materials to Avoid) Strong Oxidizing Agents		
Hazardous Decomposition or Byproducts Thermal decomposition may produce carbon monoxide, carbon dioxide, and nitrogen oxides. Sulfur oxides.		
Hazardous Polymerization	May Occur	Conditions to Avoid N/A
	Will Not Occur	

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	No	Yes	Yes

Health Hazards (Acute and Chronic)

Inhalation: Not an inhalation hazard in the form provided.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
No	No	No	No

Signs and Symptoms of Exposure

May be irritating to eyes and skin. Exercise appropriate procedures to minimize potential hazards.

Medical Conditions

Generally aggravated by exposure. The toxicological properties of this material have not been thoroughly investigated.

Emergency and First Aid Procedure

Contact: Flush skin with copious amounts of water.

Ingestion: Give 1-2 glasses of water and contact physician.

Eyes: Flush with water for 15 minutes, lifting lower and upper eyelids. If irritation develops or persists, get medical attention.

Section VII - Precautions for Safe Handling and Use**Steps to be Taken in Case Material is Released or Spilled**

Absorb with vermiculite, paper towelling, or other absorbent material. Place in suitable container.

Waste Disposal Method

Flush down sanitary sewer with copious amounts of water. Discharge may be subject to Federal, State and Local laws.

Precautions to be Taken in Handling and Storage

Storage Code-->Green (General) Store in a cool dry place. Wash thoroughly after handling. Keep container tightly closed when not in use.

Other Precautions:

For lab use only. Not for drug, food, or cosmetic use. Keep out of reach of children.

Section VIII - Control Measures**Respiratory Protection (Specify Type)**

None required

Ventilation	Local Exhaust	Special
	Not Needed	No
None	Mechanical (General)	Other
	Not Needed	No

Protective Gloves

Rubber (butyl/nitrile) Gloves

Other Protective Clothing or Equipment

Chemical safety goggles, lab coat, apron, eye wash station in close proximity, within 15 sec. of work station.

Work/Hygenic Practices

Wear protective equipment. Wash hands with soap and water following the handling of this material.

Use under direct supervision of a qualified individual knowledgeable in all aspects of laboratory safety. This product is intended for lab use only.

Not for drug, food, or cosmetic use.

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MATERIAL SAFETY DATA SHEET

MSDS No.: NN0217
 Effective Date: January 12, 2007

815 St. 10017
 Rochester, NY 14623-0012
 (585) 330-2302
 397 Vermicler Road
 St. Catharines, Ontario, L2R 3T5
 815 Fere Lane
 San Luis Obispo, CA 93403-2010

24 HOUR EMERGENCY ASSISTANCE

CHEMTREC
 800-424-9300
 Day 585-226-6177

NFPA

Health	1
Fire	0
Reactivity	0

HAZARD RATING
 MINIMAL 0 SLIGHT 1 MODERATE 2 SERIOUS 3 SEVERE 4

SECTION I NAME

Product	Ward's Quikview DNA Stain
Chemical Synonyms	N/A
Formula	Mixture.
Unit Size	up to 3.785 Lt.
C.A.S. No.	Mixture.

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Proprietary ingredients		

CAUTION: MAY BE HARMFUL IF SWALLOWED OR

ABSORBED THROUGH SKIN. MAY CAUSE IRRITATION TO SKIN AND EYES.

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes approx. 0°C (32°F)	Specific Gravity (H ₂ O = 1)	1.0
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	99.9%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Water = 1)	Less than 1.
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Complete.		
Appearance & Odor	Purple liquid; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A
Extinguisher Media	Use any media suitable for extinguishing supporting fire.		

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions, water may evaporate from this solution, which may cause hazardous decomposition products to be produced as dust or fume.

D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

Threshold Limited Value

Not established for this mixture. ACGIH 2001.

Effects of Overexposure

May be harmful by ingestion or skin absorption. May cause skin and eye irritation. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Exercise appropriate procedures to minimize potential hazards. Target organs: None known.

Emergency and First Aid Procedures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	X	Excessive temperature and heat to cause evaporation.
	Stable		
Incompatibility (Materials to Avoid)			
Strong oxidizing agents.			
Hazardous Decomposition Products			
Carbon monoxide and carbon dioxide, nitrogen oxides, sulfur oxides.			
Hazardous Polymerization			
Conditions to Avoid			
May Occur	Will Not Occur	X	Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Absorb with an inert dry material. Sweep up and place in a suitable container for disposal. Wash spill area with soap and water.

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dispose of in an approved incinerator equipped with an afterburner and scrubber or contract with a licensed waste disposal agency.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify type)	None should be needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.		
Ventilation	Local Exhaust	None needed.	No.
	Mechanical (General)	None needed.	No.
Protective Gloves	Rubber.	Eye Protection	Chemical safety goggles.
Other Protective Equipment	Faceshield, lab coat or apron, vented hood, proper gloves, eye wash station.		

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Store in a cool, dry place. Wash thoroughly after handling.

Keep container tightly closed when not in use.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing.

Revision No. 3 Date 01/12/07 Approved James A. Bertsch Chemical Safety Coordinator JAB

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