

ACC# 93763

Richard-Allan Scientific

Print Date: 9/2/07
Revision Date: 12/19/2005
Version: 2Material Safety Data Sheet
Mark-It Tissue Marking Dye-Green

Section 1 - Chemical Product and Company Identification

MSDS Name:

Mark-It Tissue Marking Dye-Green

Catalog Numbers:

5000G

Synonyms:

None Known

Company Identification:

Richard Allan Scientific
4481 Campus Drive
Kalamazoo, MI 49008

Company Phone Number:

800-522-7270

Emergency Phone Number:

800-424-9300

CHEMTREC Phone Number, US:

(800) 424-9300

CHEMTREC Phone Number, Europe:

(202) 483-7616

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent	INECS/ ELINCS	Hazard Symbols	Risk Phrases
7732-18-5	Water	50-55	231-791-2		
1336-21-6	Ammonium hydroxide	0.6	215-647-6		
2682-20-4	Proclin 300	<0.1	220-239-6		

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: Blue liquid

Caution! May cause eye, skin, and respiratory tract irritation. The toxicological properties of this material have not been fully investigated.

Target Organs: No data found

Potential Health Effects

Eye:

May cause eye irritation.

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Section 4 - First Aid Measures

Skin:

May cause skin irritation.

Ingestion:

May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated. May cause nausea and vomiting.

Inhalation:

May cause respiratory tract irritation.

Chronic:

No information found.

Eyes:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

Skin:

In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

Ingestion:

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Autoignition Temperature:

Not available

Explosion Limits:

Lower: Not available

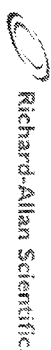
Flash Point:

Not available

NFPA Rating:

(estimated) Health: 1; Flammability: 0; Instability: 0

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Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:

Store in a tightly closed container. Store at 15°-30°C.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None listed	None listed	None listed
Ammonium hydroxide	None listed	None listed	None listed
Proclin 300	None listed	None listed	None listed
OSHA Vacated PELs			

Personal Protective Equipment

Eyes:

Wear chemical splash goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

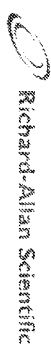
Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

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Section 9 - Physical and Chemical Properties

Physical State:

Liquid

Color: Blue

Odor: Ammonia-like

pH: No information found

Vapor Pressure: No information found

Vapor Density: No information found

Evaporation Rate: No information found

Viscosity: No information found

Boiling Point: No information found

Freezing/Melting Point: No information found

Decomposition Temperature: No information found

Solubility in water: No information found

Specific Gravity/Density: No information found

Molecular Formula: Solution

Molecular Weight: No information found

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Excess heat

Incompatibilities with Other Materials

Strong oxidizing agents

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide, nitrogen oxides (NOx) and ammonia (NH3)

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000

CAS# 1336-21-6: BQ9625000

CAS# 2682-20-4: NX8157080

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LD50/LC50:

CAS# 7732-18-5:
Oral, rat: LD50 = >90 mL/kg.
CAS# 1336-21-6:
Draize test, rabbit, eye: 250 ug Severe
Draize test, rabbit, eye: 44 ug Severe
Oral, rat: LD50 = 350 mg/kg
CAS# 2682-20-4:
No information found

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 1336-21-6: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 2682-20-4: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology:

No information found

Teratogenicity:

No information found

Reproductive:

No information found

Mutagenicity:

No information found

Neurotoxicity:

No information found

Other:

The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

No information found

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Part 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

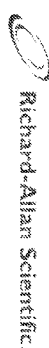
RCRA P Series Wastes

None of the components are on this list.

RCRA U Series Wastes

None of the components are on this list.

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Section 14 - Transport Information

US DOT

Proper Shipping Name: Not Regulated

Hazard Class:

UN Number:

Packing Group:

USA RQ: CAS# 1336-21-6: 1000 lb final RQ, 454 kg final RQ

Canadian TDG

Not Regulated

Section 15 - Regulatory Information

European/International Regulations

European Labelling in Accordance with EC Directives:

Hazard Symbols: None listed

Risk Phrases: None listed

Safety Phrases: S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

Not available

United Kingdom Occupational Exposure Limits

Not available

United Kingdom Maximum Exposure Limits

Not available

Canadian DSL/NDL

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 1336-21-6 is listed on Canada's DSL List.

CAS# 2682-20-4 is listed on Canada's DSL List.

Canadian WHMIS Classifications

Not available

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

Canadian Ingredient Disclosure List

CAS# 1336-21-6 is listed on the Canadian Ingredient Disclosure List.

US Federal

TSCA

CAS# 7732-18-5 is listed on the TSCA Inventory.


CAS# 1336-21-6 is listed on the TSCA Inventory.

CAS# 2682-20-4 is listed on the TSCA Inventory.

Health and Safety Reporting List

None of the components are on this list.

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Chemical Test Rules

None of the components are on this list.

TSCA Section 12b

CAS# 2682-20-4: Section 5, 1 % de minimus concentration

TSCA Significant New Use Rule (SNUR)

None of the components are on this list.

CERCLA Hazardous Substances and corresponding RQs

CAS# 1336-21-6: 1000 lb final RQ, 454 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the components are on this list.

SARA Hazard Categories

CAS# 1336-21-6: immediate, delayed.

SARA Section 313

None of the components are on this list.

Clean Air Act - Hazardous Air Pollutants (HAPs)

None of the components are on this list.

Clean Air Act - Class 1 Ozone Depleters

None of the components are on this list.

Clean Air Act - Class 2 Ozone Depleters

None of the components are on this list.

Clean Water Act - Hazardous Substances

CAS# 1336-21-6 is listed as a Hazardous Substance under the CWA.

Clean Water Act - Priority Pollutants

None of the components are on this list.

Clean Water Act - Toxic Pollutants

None of the components are on this list.

OSHA - Highly Hazardous

None of the components are on this list.

OSHA - Specifically Regulated Chemicals

None of the components are on this list.

US State

State Right to Know

Ammonium hydroxide can be found on the following state Right-to-Know lists: California, New Jersey, Pennsylvania, Massachusetts.

No information found

California Prop 65

None of the components are on this list.


California No Significant Risk Level

None of the components are on this list.

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Section 16 - Other Information

Color information has been

MSDS Creation Date: December 12, 2005

Revision Date: December 19, 2005

This MSDS is intended for review and guidance in the receipt, storage, handling, use and disposal of product purchased from us, and for no other purpose. Use this product only as directed and in accordance with applicable instructions and warnings provided with the product. Please consult your institution's policies regarding use of this product. If you have obtained this MSDS other than in connection with the supply of this product from us, this MSDS should be consulted for general information only, and should not be relied upon for any purpose. As with the use of all hazardous materials, you should in all instances follow the guidance of the MSDS provided or available with the specific product purchased.