


Material Safety Data Sheet
Mark-it Tissue Marking Dye-Green
Print Date: 9/21/07
Revision Date: 12/19/2005
Version: 2**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

Skin:

May cause skin irritation.

Ingestion:

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

Inhalation:

May cause respiratory tract irritation.

Chronic:

No information found.

Section 4 - First Aid Measures**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

Upper: Not available

Flash Point:

Not available

NFPA Rating:

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

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 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.

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.

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.

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; BG0625000
 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:

Drake test; rabbit, eye: 250 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.

RQRA P Series WastesNone of the components are on this list.
None of the components are on this list.**RQRA U Series Wastes**

None of the components are on this list.

Section 14 - Transport Information**US DOT**

Not Regulated

Canadian TDG

Not Regulated

European/International Regulations**European Labelling in Accordance with EC Directives:**

Hazard Symbols: None listed

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

WGK (Water Danger/Protection)

Not available

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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.

CECRA 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 Depletors

None of the components are on this list.

Clean Air Act - Class 2 Ozone Depletors

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

None of the components are on this list

No information found