

Material Safety Data Sheet

Material Name: Fluorescein Green Concentrate

*** Section 1 - Chemical Product and Company Identification ***

Manufacturer Information

Dwyer Instruments, Inc.
102 Highway 212
Michigan City, IN 46361

Phone: 219-879-8868
Fax: 219-872-9057

For Chemical Emergency: Call CHEMTREC day or night. Domestic North America call- 800-424-9300; International call -703-527-3887 (collect accepted)

*** Section 2 - Hazards Identification ***

Emergency Overview

May cause eye, skin and respiratory tract irritation.

Potential Health Effects: Eyes

May cause eye irritation.

Potential Health Effects: Skin

May cause skin irritation.

Potential Health Effects: Ingestion

Not considered a likely route of exposure under normal product use conditions. If swallowed, may cause gastrointestinal irritation.

Potential Health Effects: Inhalation

May cause respiratory tract irritation.

HMIS Ratings: Health: 1 Fire: 0 HMIS Reactivity 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component
7732-18-5	Water
139-88-8	Tergitol No. 4
111-90-0	Diethylene glycol monoethyl ether
7647-14-5	Sodium chloride
7757-82-6	Sodium sulfate (solution)
1330-38-7	Cuprate(2-), [29H,31H-phthalocyanine-C,C-disulfonato(4-)-N29,N30,N31,N32]-, disodium
518-47-8	Sodium fluorescein

*** Section 4 - First Aid Measures ***

First Aid: Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention or advice.

First Aid: Skin

For skin contact, flush with large amounts of water. If irritation persists, get medical attention.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting unless directed to do so by medical personnel.

First Aid: Inhalation

Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

None

Hazardous Combustion Products

Thermal decomposition products are toxic.

Extinguishing Media

Use appropriate extinguishing media for surrounding fire.

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Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Stop the flow of material, if this is without risk.

Clean-Up Procedures

Wear appropriate protective equipment and clothing during clean-up. Absorb spill with inert material. Shovel material into appropriate container for disposal.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

None

*** Section 7 - Handling and Storage ***

Handling Procedures

Avoid getting this material into contact with your skin and eyes. Wash thoroughly after handling.

Storage Procedures

Keep the container tightly closed and in a cool, well-ventilated place.

*** Section 8 - Exposure Controls / Personal Protection ***

A: Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses; chemical goggles (if splashing is possible).

Personal Protective Equipment: Skin

Use impervious gloves.

Personal Protective Equipment: Respiratory

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Personal Protective Equipment: General

Eye wash fountain is recommended.

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Green	Odor:	Characteristic
Physical State:	Liquid	pH:	ND
Vapor Pressure:	ND	Vapor Density:	ND
Boiling Point:	ND	Melting Point:	ND
Solubility (H2O):	Soluble	Specific Gravity:	ND
Evaporation Rate:	ND	VOC:	ND
Octanol/H2O Coeff.:	ND	Flash Point:	NA
Flash Point Method:	CC	Upper Flammability Limit (UFL):	ND
Lower Flammability Limit (LFL):	ND	Burning Rate:	ND
Auto Ignition:	ND		

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

This is a stable material.

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Chemical Stability: Conditions to Avoid

None

Incompatibility

Oxidizing materials.

Hazardous Decomposition

Decomposes to form toxic compounds.

Possibility of Hazardous Reactions

Will not occur.

* * * **Section 11 - Toxicological Information** * * *

Acute Dose Effects

A: General Product Information

No information available for the product.

B: Component Analysis - LD50/LC50

Water (7732-18-5)

Oral LD50 Rat >90 mL/kg

Tergitol No. 4 (139-88-8)

Oral LD50 Rat 1250 mg/kg; Dermal LD50 Rabbit 3 mL/kg

Diethylene glycol monoethyl ether (111-90-0)

Oral LD50 Rat 1920 mg/kg; Dermal LD50 Rabbit 4200 µL/kg; Dermal LD50 Rat 6 mL/kg; Inhalation LC50 Rat >5240 mg/m³ 4 h

Sodium chloride (7647-14-5)

Inhalation LC50 Rat >42 g/m³ 1 h; Oral LD50 Rat 3 g/kg; Dermal LD50 Rabbit >10 g/kg

Sodium sulfate (solution) (7757-82-6)

Oral LD50 Rat >10000 mg/kg

Cuprate(2-), [29H,31H-phthalocyanine-C,C-disulfonato(4-)-N29,N30,N31,N32]-, disodium (1330-38-7)

Oral LD50 Rat >5 g/kg

Sodium fluorescein (518-47-8)

Oral LD50 Rat 6721 mg/kg

Carcinogenicity

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

* * * **Section 12 - Ecological Information** * * *

Ecotoxicity

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Diethylene glycol monoethyl ether (111-90-0)

Test & Species

96 Hr LC50 Oncorhynchus mykiss	11400-15700 mg/L [flow-through]
96 Hr LC50 Pimephales promelas	11600-16700 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	10000 mg/L [static]
96 Hr LC50 Lepomis macrochirus	19100-23900 mg/L [flow-through]

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96 Hr LC50 Salmo gairdneri	13400 mg/L [flow-through]
48 Hr EC50 Daphnia magna	3940 - 4670 mg/L

Sodium chloride (7647-14-5)

Test & Species

96 Hr LC50 Lepomis macrochirus	5560-6080 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	12946 mg/L [static]
96 Hr LC50 Pimephales promelas	6020-7070 mg/L [static]
96 Hr LC50 Pimephales promelas	7050 mg/L [semi-static]
96 Hr LC50 Pimephales promelas	6420-6700 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss	4747-7824 mg/L [flow-through]
48 Hr EC50 Daphnia magna	1000 mg/L
48 Hr EC50 Daphnia magna	340.7 - 469.2 mg/L [Static]

Conditions

Sodium sulfate (solution) (7757-82-6)

Test & Species

96 Hr LC50 Pimephales promelas	13500 - 14500 mg/L
96 Hr LC50 Pimephales promelas	>6800 mg/L [static]
96 Hr LC50 Lepomis macrochirus	3040 - 4380 mg/L [static]
96 Hr LC50 Lepomis macrochirus	13500 mg/L
96 Hr EC50 Daphnia magna	630 mg/L
48 Hr EC50 Daphnia magna	2564 mg/L

Conditions

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

All wastes must be handled in accordance with local, state and federal regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Not Regulated

*** Section 15 - Regulatory Information ***

US Federal Regulations

Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

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Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Diethylene glycol monoethyl ether	111-90-0	No	No	Yes	No	No	No
Sodium sulfate (solution)	7757-82-6	No	Yes	No	No	Yes	No

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Tergitol No. 4	139-88-8	1 %
Diethylene glycol monoethyl ether	111-90-0	1 %

Additional Regulatory Information

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Water	7732-18-5	Yes	DSL	EINECS
Tergitol No. 4	139-88-8	Yes	DSL	EINECS
Diethylene glycol monoethyl ether	111-90-0	Yes	DSL	EINECS
Sodium chloride	7647-14-5	Yes	DSL	EINECS
Sodium sulfate (solution)	7757-82-6	Yes	DSL	EINECS
Cuprate(2-), [29H,31H-phthalocyanine-C,C-disulfonato(4-)-N29,N30,N31,N32]-, disodium	1330-38-7	Yes	DSL	EINECS
Sodium fluorescein	518-47-8	Yes	DSL	EINECS

* * * Section 16 - Other Information * * *

Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.