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MATERIAL SAFETY DATA SHEET

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Version 1.3

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Section 1 - Product and Company Information

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Product Name            LIGHT GREEN Stain  
Product Number        L1886  
Brand                    DHM

Company                Dorn & Hart Microedge, Inc.  
Address                135 W. Home Ave  
                             Villa Park, IL 60181  
Technical Phone:        630-832-3843  
Fax:                     630-932-4213  
Emergency Phone:      630-248-2138

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Section 2 - Composition/Information on Ingredient

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Substance Name            CAS #            SARA 313  
LIGHT GREEN SF YELLOW XX (C.I. NO. 5141-20-8            No  
42095,S NO. 765)

Formula            C37H34N2Na2O9S3  
Synonyms            Acidal Light Green SF \* Acid Brilliant Green SF \*  
Acid Green 5 \* Acid Green A \* Acilan Green SFG \*  
A.F. Green No. 2 \* Amacid Green G \* C.I. 670 \*  
C.I. 42095 \* C.I. Acid Green 5 \* C.I. Acid Green  
5, disodium salt \* C.I. Food Green 2 \* FD and C  
Green No. 4 \* Fast Acid Green N \* FD and C Green  
No. 2 \* FD&C Green No. 2 - Aluminum Lake \* Fenazo  
Green 7G \* Food Green 2 \* Green No. 203 \* Leather  
Green SF \* Lichtgruen (German) \* Light Green CF \*  
Light Green FCF Yellowish \* Light Green FS \*  
Light Green G \* Light Green 2GN \* Light Green  
Lake \* Light Green S \* Light Green SF \* Light  
Green SFA \* Light Green SFD \* Light Green SF  
Yellowish \* Light Green Yellowish \* Light SF  
Yellowish (biological stain) \* Lissamine Green SF  
\* Lissamine Lake Green SF \* Merantine Green SF \*  
MY/68 \* Pencil Green SF \* Sulfo Green J \*  
Sumitomo Light Green SF Yellowish \* Wool  
Brilliant Green SF \* Zelen kyselá 5 (Czech) \*  
Zelen kyselá F (Czech) \* Zelen potravinárska 2  
(Czech) \* Zelen svetlá SF (Czech)

RTECS Number: BQ4900000

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Caution: Avoid contact and inhalation. Target organ(s): Male reproductive system.

HMIS RATING

HEALTH: 0  
FLAMMABILITY: 0  
REACTIVITY: 0

NFPA RATING  
HEALTH: 0  
FLAMMABILITY: 0  
REACTIVITY: 0

For additional information on toxicity, please refer to Section 11.

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#### Section 4 - First Aid Measures

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##### ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

##### INHALATION EXPOSURE

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

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#### Section 5 - Fire Fighting Measures

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##### FLASH POINT

N/A

##### AUTOIGNITION TEMP

N/A

##### FLAMMABILITY

N/A

##### EXTINGUISHING MEDIA

Suitable: Carbon dioxide. Dry chemical powder. Water spray.

##### FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.  
Specific Hazard(s): Emits toxic fumes under fire conditions.

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#### Section 6 - Accidental Release Measures

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##### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

##### METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

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#### Section 7 - Handling and Storage

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##### HANDLING

User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

##### STORAGE

Suitable: Keep tightly closed. Store in a cool dry place.

#### Section 8 - Exposure Controls / PPE

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##### ENGINEERING CONTROLS

Safety shower and eye bath. Use only in a chemical fume hood.

## PERSONAL PROTECTIVE EQUIPMENT

Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

## GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse. Wash thoroughly after handling.

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## Section 9 - Physical/Chemical Properties

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Appearance            Color: Deep violet  
                             Form: Powder

Property	Value	At Temperature or Pressure
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Molecular Weight	792.86 AMU	
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pH	N/A	
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BP/BP Range	N/A	
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MP/MP Range	288 °C	
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Freezing Point	N/A	
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Vapor Pressure	N/A	
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Vapor Density	N/A	
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Saturated Vapor Conc.	N/A	
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SG/Density	N/A	
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Bulk Density	N/A	
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Odor Threshold	N/A	
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Volatile%	N/A	
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VOC Content	N/A	
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Water Content	N/A	
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Solvent Content	N/A	
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Evaporation Rate	N/A	
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Viscosity	N/A	
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Surface Tension	N/A	
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Partition Coefficient	N/A	
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Decomposition Temp.	N/A	
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Flash Point	N/A	
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Explosion Limits	N/A	
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Flammability	N/A	
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Autoignition Temp	N/A	
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Refractive Index	N/A	
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Optical Rotation	N/A	
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Miscellaneous Data	N/A	
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Solubility	N/A	
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N/A = not available

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## Section 10 - Stability and Reactivity

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### STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur oxides.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

## Section 11 - Toxicological Information

#### ROUTE OF EXPOSURE

Eye Contact: May cause eye irritation.  
Inhalation: Material may be irritating to mucous membranes and upper respiratory tract.  
Multiple Routes: Causes irritation. May be harmful by inhalation, ingestion, or skin absorption.

#### TARGET ORGAN(S) OR SYSTEM(S)

Male reproductive system.

#### SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### TOXICITY DATA

Oral  
Rat  
> 2000 mg/kg  
LD50

Subcutaneous  
Mouse  
525 MG/KG  
LD50

Intravenous  
Mouse  
700 MG/KG  
LD50

#### CHRONIC EXPOSURE - CARCINOGEN

Species: Rat  
Route of Application: Oral  
Dose: 1300 GM/KG  
Exposure Time: 86W  
Frequency: C  
Result: Tumorigenic: Carcinogenic by RTECS criteria.  
Blood: Lymphomas including Hodgkin's disease.

Species: Rat  
Route of Application: Subcutaneous  
Dose: 6825 MG/KG  
Exposure Time: 46W  
Frequency: I  
Result: Tumorigenic: Neoplastic by RTECS criteria.  
Tumorigenic: Tumors at site of application.

#### IARC CARCINOGEN LIST

Rating: Group 3

#### CHRONIC EXPOSURE - MUTAGEN

Species: Mouse  
Dose: 553 MG/L  
Cell Type: lymphocyte  
Mutation test: Mutation in mammalian somatic cells.

Mutation test: Histidine reversion (Ames)

## CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Species: Rat  
Dose: 819 GM/KG  
Route of Application: Oral  
Exposure Time: (65W MALE)  
Result: Paternal Effects: Testes, epididymis, sperm duct.  
Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count).

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### Section 12 - Ecological Information

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No data available.

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### Section 13 - Disposal Considerations

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#### APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

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### Section 14 - Transport Information

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#### DOT

Proper Shipping Name: None  
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

#### IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

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### Section 15 - Regulatory Information

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#### US CLASSIFICATION AND LABEL TEXT

US Statements: Caution: Avoid contact and inhalation. Target organ(s): Male reproductive system.

#### UNITED STATES REGULATORY INFORMATION

SARA LISTED: No  
TSCA INVENTORY ITEM: Yes

#### CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes  
NDSL: No

### Section 16 - Other Information

#### DISCLAIMER

For R&D use only. Not for drug, household or other uses.

#### WARRANTY

