# Laminar Sciences Corporation

# Safety Data Sheet Revision 1.0 Nov 15, 2016

#### 1. PRODUCT AND COMPANY IDENTIFICATION

# 1.1. Product Identifiers

Product Name Laminar Sciences Corp Multi-Color Rheoscopic Fluid

Product Formulation E/H-A

General Use As a liquid for fluid flow visualization or kinetic art pieces

#### 1.2. Relevant Identified Uses

Hobbyist Fluid flow visualization Scientific Fluid flow visualization

Artistic Works Kinetic art pieces using fluid flow

# 1.3. Supplier Details

Company Laminar Sciences Corporation

710 La Prenda Road Los Altos, CA 94024

Telephone 408-821-7843

## 1.4. Emergency Telephone Number

Telephone 408-821-7843

#### 2. HAZARDS IDENTIFICION

#### 2.1. Classification of the Substance or Mixture

Classified Components No Classified Components

GHS Classification in Not Classified

accordance with 29 CFR 1910

(OSHA HCS)

#### 2.2. GHS Label Elements, Including Precautionary Statements

Pictogram Not applicable Signal Word No signal word

Hazard statements No known health effects or hazards

Precautionary statements Not applicable

# 2.3. Hazards Not Otherwise Classified (HNOC) or Not Covered by GHS

Hazards None

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#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

## 3.1. Substances

See below

#### 3.2. Ingredients

Name **CAS Number** Vermiculite 1318-00-9 Distilled Water 7732-18-5

#### 3.3. Hazardous Components

One of the ingredients may contain trace levels of naturally occurring crystalline silica (Quartz – CAS # 1408-60-7). Supplier has test results showing this component of the ingredient is not biologically significant and therefore, incapable of causing harm under normal conditions of use or as a result of extreme upset.

#### 3.4. Additional Information

None

# 4. FIRST AID MEASURES

Skin Contact

**Eye Contact** 

4.1. Description of First Aid Measures

Inhalation If adverse effects occur, remove to an uncontaminated

area. If not breathing, give artificial respiration or oxygen

by qualified personnel. Seek immediate medical attention. Use good hygiene practices including washing of skin with

soap and water. If irritation occurs, seek medical attention.

In case of eye contact, flush eyes with water. If necessary,

seek medical attention.

Rinse mouth thoroughly. If a large amount is swallowed, Ingestion

seek medical attention.

#### 4.2. Most Important Symptoms / Effects, Acute and Delayed

Irritation, Nausea, Headache, Shortness of breath

# 4.3. Indication of any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically. Seek medical attention if large quantities of product have been ingested or inhaled.

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#### 5. FIREFIGHTING MEASURES

# 5.1. Extinguishing Media

This product is not flammable. Use fire extinguishing media appropriate for surrounding materials.

5.2. Special Hazards Arising from the Substance or Mixture

Hazardous combustion products do not occur

5.3. Advice for Firefighters

No specific fire-fighting procedures are needed

## 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Follow precautions for safe handling as described in this Safety Data Sheet. If a spill occurs, stop the spill and contain spilled material by diking or using inert absorbent.

6.2. Environmental Precautions

Products are naturally occurring and nonhazardous. Handle waste in accordance with section 13 recommendations.

6.3. Methods and Material for Containment and Clean Up

Contain spills and dispose of waste in accordance with section 13. If spilled product dries out completely, clean reside by wetting it first, then wiping up and disposing of it in accordance with section 13.

6.4. Reference to Other Sections

For personal protection see section 8. For waste disposal see section 13

#### 7. HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Wear personal protective equipment in accordance with those recommendations provided in Section 8. Use good hygiene practices and wash hands and face before eating, drinking or conducting personal hygiene. Reduce contamination from clothing and protective equipment before entering eating areas.

7.2. Conditions for Safe Storage, Including any Incompatibilities

Store in cool, dry conditions in sealed containers.

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#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Exposure Limits

Engineering Controls Emergency eye wash fountains and safety showers should

be available in the immediate vicinity of use/handling. If there is possibility of product drying out completely to a residue, ventilation should be provided to control dust

inhalation.

Respiratory Protection Not required for typical uses of this product. Respiratory

protection and ventilation should be provided in cases where this product might be aerosolized or where this product's dried residue be abraded to create dust.

Eye / Face Protection Wear eye protection where there is danger of eye contact.

Provide eyewash station.

Skin and Body Protection Use of gloves is suggested. Wash hands and exposed body

parts after handling this product.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on Basic Physical and Chemical Properties

Appearance Clear to amber colored liquid that displays multi-colored

birefringence under certain conditions

Odor Odorless

Melting / Freezing Point OC
Boiling Point >100C

Flammability Not flammable pH 7.0 +/- 0.5

Specific Gravity Not determined (but very close to 1.0 based on ingredients)

#### 10. STABILITY AND REACTIVITY

#### 10.1. Reactivity

None. Stable under normal temperature conditions.

# 10.2. Chemical Stability

Product is stable.

#### 10.3. Possibility of Hazardous Reactions

Hazardous reactions will not occur in normal use conditions

#### 10.4. Conditions to Avoid

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lonic contamination will cause product to irreversibly flocculate and render product useless for designated uses. Additions of any other materials to this product has not been evaluated and may render the products useless.

## 10.5. Incompatible Materials

Any strong acids or bases, especially hydrofluoric acid. Salts or other ionic contamination. Common tap water.

## 10.6. Hazardous Decomposition Products

Carbon oxides (CO, CO2) as is common for any water-based product. In the presence of hydrofluoric acid, silicon tetrafluoride gas may form.

#### 11. TOXICOLOGICAL INFORMATION

# 11.1. Information on Toxicological Effects

Acute Toxicity Oral LD50: Not Relevant

Dermal LD50: Not Relevant Inhalation LC50: Not Relevant

Inhalation If product completely dries out to a residue, dust produced

by residue abrasion may irritate the respiratory system. Aerosolized product may also irritate the respiratory

system.

Skin Contact May irritate skin. Eye Contact May irritate eyes.

#### 12. ECOLOGICIAL INFORMATION

## 12.1. Ecotoxicity

Not regarded as dangerous for the environment

#### 12.2. Acute Fish Toxicity

Not considered toxic to fish

# 12.3. Persistence and Degradability

Liquid portions of this product readily degrades in the environment. Solid portions are inert, inorganic and do not degrade.

#### 12.4. Bioaccumulative Potential

This product is not bioaccumulating.

# 12.5. Mobility in Soil

Liquid portions of this product have high mobility in soil. Solid portions have low/no mobility in soil.

#### 12.6. Results of PBT and vPvB Assessment

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These products do not contain any PBT or vPvB substances.

12.7. Other Adverse Effects

None.

#### 13. DISPOSAL CONSIDERATIONS

13.1. Product Disposal Recommendations

This product may be suitable for sanitary sewer disposal, trash disposal, or draining into soil. Check with all applicable local, regional, and national laws and regulations. Local regulations may be more stringent than regional or national regulations.

13.2. Packaging Disposal Recommendations

Product packaging should be cleaned/rinsed and recycled in accordance with local regulations.

#### 14. TRANSPORT INFORMATION

14.1. UN Number

This product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.2. UN Proper Shipping Name

Not dangerous goods.

14.3. Transport and Hazard Class(s)

Not classified for transportation.

14.4. Packing Group

Not dangerous goods.

14.5. Environmental Hazards

Not an environmentally hazardous substance / marine pollutant.

14.6. Special Precautions for User

Not dangerous goods.

14.7. Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

#### 15. REGULATORY INFORMATION

15.1. United States Regulation

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SARA 302 Components No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 311/312 Hazards Regulated per OSHA HAZCOM Standards.

SARA 313 Components No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 313.

# 15.2. California (Proposition 65) Regulation

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

# 15.3. Other States Right To Know Components

No chemicals in this product is subject to state reporting requirements.

#### 16. OTHER INFORMATION

#### 16.1. General

The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions in an individual operation to instruct employees and develop work practice procedures for a safe work environment.

The information contained herein is, to the best of knowledge of Laminar Sciences Corporation, accurate. However, since the conditions of handling and use are beyond Laminar Sciences Corporation's control, Laminar Sciences Corporation makes no guarantee of results, and assumes no liability for damages incurred by use of this product. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this product.

## 16.2. Ratings

HMIS Rating Health Hazard: 0

Chronic Health Hazard: 0

Flammability: 0

Physical Hazard: 0

NFPA Rating Health Hazard: 0

Fire Hazard: 0

Reactivity Hazard: 0

GHS Full Text Phrases None

#### 16.3. Document History

Version Notes

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Laminar Sciences Corp.