

SEACHEM LABORATORIES, INC.

SAFETY DATA SHEET

This data sheet was prepared in conformity with the Globally Harmonized System as promulgated by Title 29 of the United States Code of Federal Regulations (CFR) and by European Directives (EC) No. 1272/2008 and 1907/2006/EC. Accordingly, it is only for informational purposes as intended thereby.

Flourish Glue

Section 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Flourish Glue

OTHER PRODUCT NAMES: N/A

PRODUCT USE: Glue for use in ornamental aquariums.

SUPPLIER DETAILS

COMPANY NAME: Seachem Laboratories, Inc.

ADDRESS: 1000 Seachem Drive, Madison, GA 30650 USA

TELEPHONE NUMBER FOR INFORMATION: 706-343-6060 EMERGENCY TELEPHONE NUMBER: 706-343-6060

DATE OF PREPARATION: May 16, 2011 DATE OF LAST REVISION: Jan 7, 2016

Section 2: HAZARDS IDENTIFICATION

This material is considered **hazardous** under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200, and Regulation (EC) No 1272/2008 (GHS).

Hazard Classification:

Skin Irritation Category 2 Eye Irritation Category 2A

Warning

Label elements:

Signal Word:

Hazard Pictograms:



Hazard Statements:

H315: Causes skin irritation.

H319: Causes serious eye irritation. H335: May cause respiratory irritation

Precautionary Statements:

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

P337+P313 - If eye irritation persists: Get medical advice/attention.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD RATINGS

Health (Blue): 1 – May be irritating to skin or eyes

Flammability (Red): 0 – Minimal Instability (Yellow): 0 – Minimal

Other (White): None

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health Hazard (Blue): 1 – Irritation or minor injury possible

Flammability Hazard (Red): 0 – Minimal Physical Hazard (Orange): 0 – Minimal Protective Equipment: See section 8



Section 3: COMPOSITION and INFORMATION ON INGREDIENTS

| Components | CAS# | EC# | Wt % |
|-----------------|------|-----|------|
| cyanoacrylates* | * | * | * |

^{*} A proprietary blend of cyanoacrylates, the identity and weight of which are withheld as trade secrets.

Section 4: FIRST AID MEASURES

INGESTION: Rinse mouth with water. Do NOT induce vomiting. Contact a poison information center or a doctor.

EYE CONTACT: Immediately flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing. Contact a poison information center or a doctor.

SKIN CONTACT: Remove immediately all contaminated clothing. Rinse skin contact area with water. Contact a poison information center or a doctor.

INHALATION: In case of inhalation of dust, remove victim to fresh air and keep at rest and warm. Contact a poison information center or a doctor.

RECOMMENDATIONS TO PHYSICIANS: Treat symptomatically. First aid responders should wear suitable protective equipment for eyes, skin, and protective mask depending on the situation

Section 5: FIRE-FIGHTING MEASURES

FIRE EXTINGUISHING MATERIALS: Material is non-flammable.

FLASH POINT: None

AUTOIGNITION TEMPERATURE: Not Applicable

FLAMMABLE LIMITS (in air by volume, %): Not Applicable

Lower Explosive Limit (LEL): Not Applicable Upper Explosive Limit (UEL): Not Applicable

Section 6: ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Absorb spillage to prevent material damage. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Wear suitable protective equipment described in section 8. Sweep up scattered materials or vacuum them using a vacuum cleaner so as not to cause dust then collecting into an empty container. Do not eat drink or smoke near release area, handling, or storage location. Take measures to prevent the flow or spread of materials into drains, sewers, basements, or other closed areas.

Section 7: HANDLING AND STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: Install or use appropriate equipment and wear suitable protective apparatus described in Section 8. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid generating and breathing dusts or particulates generated by this product. Use in a well-ventilated location. Launder contaminated clothing before reuse.

STORAGE AND HANDLING PRACTICES: Store material in original containers. Store in a cool, dry area protected from environmental extremes. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks.

Section 8: EXPOSURE CONTROLS-PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: Use adequate ventilation to ensure exposure levels are maintained below the limits provided below.

EXPOSURE LIMITS/GUIDELINES:

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states, and those of Japan. Please reference applicable regulations and standards for relevant details.

RESPIRATORY PROTECTION:

Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN 529:2005, or EU member states. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under U.S. Federal OSHA's Respiratory Protection Standard (1910.134-1998) or the regulations of various U.S. States, Canada, EU Member States, or those of Japan. Air-purifying respirators with dust/mist/fume filters are recommended if operations may involve prolonged exposures to mists or sprays from this product. EYE PROTECTION:

Splash goggles or safety glasses. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian CSA Standard Z94.3-M1982, *Industrial Eye and Face Protectors*, or relevant European Standards, Australian Standards, or Japanese Standards.

HAND PROTECTION:

Wear neoprene or butyl rubber gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR 1910.138, or relevant European, Canadian, Australian or Japanese Standards.

BODY PROTECTION:

Use body protection appropriate for the task (e.g., apron, lab coat, overalls, etc.) If necessary, refer to appropriate Standards of Canada, the European Union, Australia, or Japan.

Section 9: PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE AND COLOR: Clear Liquid ODOR: Acrid

pH: Not applicable

BOILING POINT: > 149 °C FREEZING/MELTING POINT: < -20 °C

FLASH POINT: 80 - 93 °C (176 - 199 °F)

EVAPORATION RATE (n-Butyl Acetate = 1): 0.3

FLAMMABILITY (solid, gas):

VAPOR PRESSURE @ 20 °C:

VAPOR DENSITY (air = 1):

SPECIFIC GRAVITY (water = 1):

SOLUBILITY IN WATER:

Not applicable

Unknown

~ 1.5

~ 1.1

Insoluble

Section 10: STABILITY and REACTIVITY

REACTIVITY:

This product is non-reactive under normal conditions of use.

STABILITY:

This product is stable under normal conditions of use.

CONDITIONS TO AVOID:

Extreme high or low temperatures.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:

Avoid contact with: Strong acids. Strong bases. Strong oxidizers.

DECOMPOSITION PRODUCTS:

Calcium hydroxide.

HAZARDOUS POLYMERIZATION:

Will not occur.

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity Estimates (ATE) are calculated according to US OSHA Hazard Communication Standard 29CFR 1910.1200. The calculation is based on specific toxicology data for components present in concentrations greater than 1%.

ACUTE TOXICITY

Acute oral toxicity

The calculated ATE(mix) for this product is > 5000.

Acute dermal toxicity

May cause skin burns and eye damage.

Acute inhalation toxicity

The calculated ATE(vapor) for this product is > 2000.

SKIN CORROSION/IRRITATION

Causes severe skin burns.

SERIOUS EYE DAMAGE/EYE IRRITATION

Causes severe eye damage.

SENSITIZATION

The components of this product are not known to be human skin or respiratory sensitizers.

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

CARCINOGENICITY

The components of this product are not listed by U.S. FEDERAL OSHA, NTP, IARC, and

CAL/OSHA and therefore are not considered to be, nor suspected to be, cancer-causing agents by these agencies.

TERATOĞENICITY

The components of this product are not reported to produce teratogenic effects in humans.

REPRODUCTIVE TOXICITY

The components of this product are not reported to cause reproductive effects in humans.

MUTAGENICITY

The components of this product are not reported to produce mutagenic effects in humans.

ASPIRATION HAZARD

Based on physical properties, not likely to be an aspiration hazard.

Section 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY:

This product will be diluted to nontoxic levels by groundwater, and will biodegrade in the environment.

EFFECT OF MATERIAL ON PLANTS OR ANIMALS:

This product will harm plants and animals.

EFFECT OF CHEMICAL ON AQUATIC LIFE:

The LC50 for freshwater fish is > 70 mg/L (96 hour exposure)

Section 13: DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL:

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, EU Member States, Australia, and Japan. When disposing, consult to a certificated waste trader or local office if they deal with the waste. The used container should be recycled after cleaning or dispose of in compliance with related laws and local regulations. Contents should be removed completely when disposing of empty containers.

U.S. EPA WASTE NUMBER: Not applicable for wastes of this product.

EUROPEAN UNION EWC CODE: Consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14: TRANSPORTATION INFORMATION

This product is classified as hazard class 8 as defined by (1) the U.S. Department of Transportation (49 CFR 172.101), (2) per regulations of Transport Canada, (3) per the International Air Transport Association, (4) per rules of the International Maritime Organization, (5) per the Economic Commission for Europe (European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR)). Additionally, this product is NOT classified as a Marine Pollutant as defined by 49 CFR 172.101 Appendix B, U.S. Department of Transportation).

When transporting, confirm no leakage from containers. When loading, prevent containers from failing, dropping or damaging. Take preventative measures against collapse.

Section 15: REGULATORY INFORMATION

ADDITIONAL UNITED STATES REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: The component of this product is NOT subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA THRESHOLD PLANNING QUANTITY: The component of this product has no specific Threshold Planning Quantity. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 pounds (4540 kg) therefore applies, per 40 CFR 370.20.

U.S. SARA HAZARD CATEGORIES (SECTION 311/312, 40 CFR 370-21): ACUTE: Yes; CHRONIC: No; FIRE: No; REACTIVE: No; SUDDEN RELEASE: No

U.S. TSCA INVENTORY STATUS: The component of this product is listed on the TSCA Inventory.

U.S. CERCLA REPORTABLE QUANTITY (RQ): Not applicable

OTHER U.S. FEDERAL REGULATIONS:

- The component of this product is not subject to the reporting requirements of CFR 29 1910.1000.
- The component of this product is not subject to the reporting requirements of Section 112® of the Clean Air Act.
- The component of this product is not a Class I or Class II ozone depleting chemical (40 CFR part 82).
- The component of this product is not listed under Table 1 as Regulated Substances, per 40 CFR, Part 68, of the Risk Management for Chemical Release Prevention.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): The component of this product is not on the California Proposition 65 Lists.

ADDITIONAL CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: The component of this product is included in the DSL Inventory.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: The component of this product is not on the CEPA Priorities Substances Lists.

CANADIAN WHMIS CLASSIFICATION: This product does not meet the criteria to be classified as a Controlled Product.

CANADIAN WHMIS SYMBOLS: Not applicable.

ADDITIONAL EUROPEAN UNION REGULATIONS:

EU LABELING/CLASSIFICATION: This product does not meet the definition of hazardous as defined by European Economic Community Guidelines.

EU CLASSIFICATION: Not applicable.

EU RISK PHRASES: R 36 (irritating to eyes); R 37 (irritating to respiratory system)

EU SAFETY PHRASES: S 22 (do not breathe dust); S 25 (avoid contact with eyes)

EUROPEAN COMMUNITY ANNEX II HAZARD SYMBOL: Not applicable EUROPEAN UNION CLASSIFICATION ON COMPONENTS:

CARBON: A classification by the European Union Directives has not yet been published for this compound.

Section 16: OTHER INFORMATION

This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Seachem Laboratories' knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

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ABBREVIATIONS AND DEFINITIONS

ACGIH American Conference of Governmental Industrial Hygienists ADR The European Agreement Concerning the International Carriage of

Dangerous Goods by Road (Economic Commission for Europe)

Minimum temperature required to initiate combustion in air with no other **Autoignition Temperature**

source of ignition.

Reference values intended as guidelines for the evaluation of potential **Biological Exposure Indices**

health hazards in the practice of industrial hygiene, published by the

ACGIH. BEIs represent the levels of determinants that are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation

exposure to the TLV.

CAL/OSHA The Division of Occupational Safety and Health for the State of California. CAS#

The Chemical Abstract Service Number that uniquely identifies each

CEPA Canadian Environmental Protection Act

CERCLA The United States Comprehensive Environmental Response, Compensation,

and Liability Act, sometimes known as the Superfund Act

CFR The US Code of Federal Regulations **CSA** The Canadian Standards Association

DOT The United States Department of Transportation

DSL/NDSL The Canadian Domestic/Non-Domestic Substances List

EC# Sometimes known as the EINECS # (European Inventory of Now-Existing

Chemical Substances), which uniquely identifies each constituent.

Embryotoxin A chemical that causes damage to a developing embryo (i.e., within the first

eight weeks of pregnancy in humans), but the damage does not propagate

across generational lines.

EN European standards for products and services by European Committee for

Standardization (Comité Européen de Normalisation).

EPA The United States Environmental Protection Agency.

EPA Waste Number A code developed by the EPA to identify characteristics of hazardous waste

(e.g., ignitability, corrosivity, reactivity, etc.)

EU European Union

EWC European Waste Catalogue, a publication of the European Union, which

catalogs hazardous chemical wastes.

Flash Point Minimum temperature at which a liquid gives off sufficient vapors to form

an ignitable product with air.

HMIS Hazardous Materials Identification System, a rating system developed by

the National Paint and Coating Association that has been adopted by

industry to identify the degree of chemical hazards.

H-Phrase H320 Causes eye irritation

H-Phrase H335 May cause respiratory irritation

IARC International Agency for Research on Cancer, an agency of the World

Health Organization.

IATA International Air Transport Association

IDLH Immediately Dangerous to Life and Health. This level represents a

concentration from which one can escape within 30 minutes without

suffering escape-preventing or permanent injury.

IMO International Maritime Organization

LD₅₀ Lethal Dose 50%, or median lethal dose, the dose of a toxin, pathogen, or

radiation required to kill half the members of a tested population after a specified test duration. The LD_{50} is frequently used as a general indicator of

a substance's acute toxicity.

LEL Lower Explosive Limit, the lowest percent of vapor in air, by volume, that

will explode or ignite in the presence of an ignition source.

Mutagen A chemical that causes permanent changes to genetic material (DNA) such

that the changes will propagate through generational lines.

NFPA National Fire Protection Association, which has established a rating system

for chemical hazards.

NIOSH National Institute for Occupational Safety and Health, a Federal research

agency focusing on occupational safety and health.

NTP National Toxicology Program, an agency of the Federal Department of

Health and Human Services.

OSHA Occupational Safety and Health Administration, an agency of the United

States Department of Labor.

PEL Permissible Exposure Limit. This has the exact same meaning as TLV,

except that it is enforceable by OSHA.

REL Recommended Exposure Limit. This has the same meaning as TLV, but is a

recommendation by NIOSH.

Reproductive Toxin Any substance which interferes in any way with the reproductive process.

International Regulations Concerning the Carriage of Dangerous Goods by

Rail

SARA Superfund Amendments and Reauthorization Act

SCBA Self-Contained Breathing Apparatus

STEL This is the 15-minute Short Term Exposure Limit reported under Threshold

Limit Value and OSHA's Permissible Exposure Limit.

TC Transport Canada

RID

Teratogen A chemical that causes damage to a developing fetus, but the damage does

not propagate across generational lines.

TLV Threshold Limit Value, the airborne concentration of a substance which

represents conditions under which it is generally believed that nearly all workers may be repeatedly exposed without adverse effect. The duration

must also be considered. See the definitions of TWA and STEL.

TSCA The United States Toxic Substances Control Act

TWA This is the 8-hour Time Weighted Average reported under Threshold Limit

Value and OSHA's Permissible Exposure Limit.

UEL

Upper Explosive Limit, the highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.

Canadian Workplace Hazardous Materials Information System

WHMIS