

# MATERIAL SAFETY DATA SHEET

Current: April 2014

<b>1. IDENTIFICATION OF THE SUBSTANCE</b>			
<b>Component Name:</b> Accel 3-in-1 EDTA Solution			
<b>Applicable Product(s) and code(s):</b> Accel 3-in-1 EDTA Solution			
<b>2. PREPARATION AND COMPANY</b>			
<b>Company Identification:</b> GBI Labs / Golden Bridge International, Inc. 22310 20 <sup>th</sup> Ave SE # 100 Bothell, WA 98021 USA Tel: 425-398-1500 FAX 425-398-1519 <b>24-Hour Emergency Contact:</b> CHEMTREC 800-424-9300 (U.S.A. and Canada only) 703-527-3887 (all other countries) Fax: 703-741-6037			
<b>2. Hazardous/non hazardous INGREDIENTS</b>			
<b>Chemical Name</b>	<b>Synonyms</b>	<b>% Composition</b>	<b>CAS Number</b>
Ethylenediaminetetraacetic acid	EDTA	0.1% < 5% weight by volume	60-00-4
TRIS Base	TRIS	0.1% < 5% weight by volume	77-86-1
Hydrogen chloride	HCl	<.05% weight by volume	7647-01-0
Water	H2O	>95%	
 <b>NOTE:</b> The product(s)/component(s) listed on this page are NOT CLASSIFIED AS HAZARDOUS at ready-to-use concentrations, due to their physical and/or chemical nature and/or concentration in solution, in accordance with OSHA regulations and European Union Directives. This MSDS contains valuable information to the safe handling and proper use of the product/component. The MSDS should be retained in accessible place to employees during all uses of this material. Composition disclosure is not required for products/components not classified as hazardous, as per 29CFR 1910.1200. <b>NOTE:</b> At concentrations used in this product this substance is not classified as dangerous according to Directive 67/548/EEC.			
<b>3. HAZARDS IDENTIFICATION</b>			
<b>Hazard Identification: <b>Warning!</b></b> May cause allergic skin reaction. May cause eye, skin, and respiratory tract irritation. May cause kidney damage. May cause reproductive and fetal effects. <b>Physical and Chemical Hazards :</b> H319 -Cause serious eye irritation			

H315 -Cause skin irritation

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Despite the product classified as non-hazardous, good laboratory practices are strongly recommended, which includes: avoiding unnecessary contact and use of personal protective equipment during the use of any laboratory reagent.

**Skin Contact:** May cause mild irritation.

**Eye Contact:** May cause mild irritation.

**Inhalation:** May cause mild irritation to mucous membrane and upper respiratory tract.

**Ingestion:** No harmful effects expected in amounts likely to be ingested by accident. However, ingestion may cause irritation and malaise.

**Environment:** None identified.

#### 4. NATIONAL FIRE PROTECTION AGENCY (NFPA) RATING

**Fire Hazard / Flash Points:** Non-Flammable

**Health Hazard:** Slightly Hazard Classification

**Reactivity:** Normally Stable

**Specific Hazard:** None identified

#### 5. EMERGENCY FIRST-AID MEASURES

**Skin contact:** Not expected to require first aid measures. Wash area off with soap and water. If skin irritation develop, seek medical advice.

**Eye contact:** Move victim to nearest water source, blot off excess chemical from face and gently rinse affected eye(s) with clean luke warm water. Rinse thoroughly with plenty of water for 20 to 30 minutes be sure to wash under eyelids. Seek medical attention when necessary.

**Inhalation:** Move victim to well ventilated area. If victim is coughing or short of breath, loosen clothing, have victim lie down and keep warm and calm.

**Ingestion:** Remove victim to well-ventilated area. If symptoms develop, seek medical attention.

#### 6. FIRE-FIGHTING MEASURES

**Flash Point / Explosion Information:** N/A (Non-flammable) / LEL: N/A UEL: N/A

**Suitable Extinguishing Media:** Water, dry chemical, carbon dioxide, or appropriate foam. Use of fire-extinguishing media appropriate for surrounding materials and fire conditions okay.

**Special Exposure Hazards:** Combustion or decomposition of material may produce hazardous fumes and/or irritating fumes. Hazardous polymerization will not occur.

**Special Protective Equipment for Firefighters:** Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.

#### 7. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Personal protective equipment and clothing is recommended during all cleanup procedures. Refer to Section 8 for additional information on exposure controls and personal protective equipment.

**Methods for Cleanup:** Avoid physical contact during removal. Absorbent pads or paper towels may be used for small spills of less than 1 liter. Ventilate area and wash spill site after material pickup is complete. Refer to Section 13 for complete disposal information.

#### 8. HANDLING AND STORAGE

Keep containers tightly closed. Store at 2-8°C in a location protected from light. Keep out of reach of children.

#### 9. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Permissible Exposure Limit (OSHA TWA/TLV/STEL):** none listed

**Precautionary Measures During Use:** Avoid physical contact and prolonged or repeated exposures. Do not breathe vapors if produced. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Mechanical exhaust is required.

**Inhalation:** Respiratory protection is highly recommended if irritating vapors are produced during routine usage of this product. Though it is not likely, if TWA or other exposure limits are exceeded during the usage of this material, use a NIOSH/MSHA-Approved respirator. Follow NIOSH/MSHA and equipment manufacturer's recommendations to determine appropriate equipment choice.

We are not aware of any national exposure limit.

**Personal protective equipment**

**Respiratory protection:** Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Eye protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection:** Use impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures:** General industrial hygiene practice

**Other:** Eye wash or safety shower.

**Environmental Exposure Controls:** Not available.

**10. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Liquid

**Odor:** None

**pH (as supplied):** -N/A

**Flammability (liquid):** NON-FLAMMABLE

**% Volatiles by Volume:** N/A

**Auto flammability:** N/A

**Water Solubility:** Soluble

**Alcohol or Glycerol Solubility:** N/A

**11. STABILITY AND REACTIVITY**

**Stability:** Stable.

**Conditions to Avoid:** Strong heat and light

**Materials to Avoid:** strong acids, strong bases, strong oxidizing agents

**Hazardous Decomposition Products:** None identified.

**12. TOXICOLOGICAL INFORMATION (dangerous-to-health effects)**

**Acute toxicity**

no data available

**Irritation and corrosion**

no data available

Eyes: no data available

**Sensitization**

no data available

**Chronic exposure**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

no data available

no data available

**Potential Health Effects**

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

### 13. DISPOSAL CONSIDERATIONS

**Waste Management Information (Disposal):** Any disposal practice must be in compliance with local, State, and Federal laws and regulations. Check with local and State regulations before discharging into sewers or public landfills.

### 14. TRANSPORT INFORMATION

**IATA Classification:** NOT RESTRICTED. When shipped alone or with other non-hazardous materials, the text "NOT RESTRICTED" must be included in the description on the Air Waybill to indicate that this mixture is not subject to IATA regulations, and has been checked. 4.1.3.3/IATA Dangerous Goods Regulations.

**Proper Shipping Name:** N/A                      **Packing Group #/ PI #:** N/A

**Hazard Class#:** N/A                              **UN#:** N/A

**ADR/RID:** N/A

### 14. REGULATORY INFORMATION / LABELING

**Contains:** Chemical identification not required on label.

**R-and S-phrases:** "Safety Data Sheet available for professional user on request."

**Labeling Note:** In accordance with EEC Directives 67/548/EEC and 88/379/EEC, this component/product is not subject to a hazard classification, but the labeling shown above must be applied.

**Restrictions on Use:** The product is for laboratory use only. The product must not be handled by persons under 18 years of age.

**Training Provisions:** The product should be handled only by technically qualified individuals experienced in handling potentially hazardous chemicals. The content of this Material Safety Data Sheet should also be known before use.

**OSHA Status:** In accordance with the OSHA Hazard Communication Standard, at product concentrations, the chemical components listed on this Material Safety Data Sheet are classified as non-hazardous.

**Toxic Substances Control Act (TSCA):** This product complies with all TSCA inventory requirements.

**California Proposition 65:** The following statement is made in order to comply with the California State Drinking Water and Toxic Enforcement Act of 1986. **This product does NOT contain chemicals on California's listing of known or suspected carcinogens.**

**Applicable Compliance Standards:** This Material Safety Data Sheet is in compliance with the Federal Occupational Safety and Health Administration's Hazard Communication Standard [29 CFR 1910.1200 ET. SEQ.], and The Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 (European Community).

**Wording of Risk Phrases:** None identified.

**User Note:** The information in this Material Safety Data Sheet was obtained from sources which we believe are reliable. However, the information is provided without any representation or warranty, express or implied, regarding its accuracy or correctness. Although certain hazards are described herein, we cannot state that these are the only hazards which exist. Final determination of suitability and safe usage of this product is the sole responsibility of the user who is obligated to review this data in the specific context of the intended use and determine applicability.

**Trade Secret Provision and Chemical Concentration Disclosure:** In accordance with OSHA and European Union regulations (20 CFR 1910.1200i and 1999/45/EC), specific chemical identities may be withheld provided all required provisions of the regulation are met. Chemical concentrations may be disclosed as either a specific value or range, provided the range given is applicable to the hazards as identified by the MSDS.

**Sources of Key Data:** Material Safety Data Sheets from suppliers, the Sigma-Aldrich Library of Chemical Safety, Merck Index, Sax's Dangerous Properties of Industrial Materials, American Conference of Government Industrial Hygienists – 2002, and North American Emergency Response Guidebook. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Commission Directive 91/155/EEC as amended by Commission Directive 2001/58/EC (Safety Data Sheets) in accordance with Parliament and Council Directive 1999/45/EC and Council Directive 67/548/EEC. Additional chemical information and hazard classification data provided by the Danish Toxicology Centre.

### 15. OTHER INFORMATION

#### Wording of Risk Phrases

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