

1. Product and Company Identification

Material name Gibson Assembly® HiFi 1 Step Kit
Version # 01
Issue date 13-October-2014
Revision date -
Supersedes date -
CAS # Mixture
Product code GA1100
Product use Research use only.
Manufacturer
Manufacturer/Supplier Address SGI-DNA Inc
4570 Executive Drive, San Diego, CA 92121
United States
Telephone Number (855) 474-4362
e-mail info@sgidna.com
Contact person Customer Service
Emergency telephone number (858) 754-2900

2. Hazards Identification

Emergency overview WARNING
Causes skin, eye and respiratory tract irritation.
OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects
Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.
Eyes Causes eye irritation.
Skin Causes skin irritation.
Inhalation Causes respiratory tract irritation.
Ingestion May cause discomfort if swallowed.
Target organs Eyes. Skin. Respiratory tract.
Chronic effects Conjunctiva.
Signs and symptoms Irritant effects.
Potential environmental effects May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Poly(oxy-1,2-ethanediyl) ethoxylated	25322-68-3	7-12
Tris-(hydroxymethyl)aminomethane	77-86-1	3-5

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

First aid procedures
Inhalation Move to fresh air. Get medical attention, if needed.
Skin contact Wash the skin immediately with soap and water. Get medical attention if irritation develops and persists.
Eye contact Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

Ingestion	Rinse mouth. Do not induce vomiting without advice from poison control center. Get medical attention if symptoms occur.
Notes to physician	Provide general supportive measures and treat symptomatically.
General advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

Flammable properties	Not flammable by OSHA criteria. Not combustible by OSHA criteria.
Extinguishing media	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Protection of firefighters	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
Hazardous combustion products	Carbon oxides.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental Release Measures

Personal precautions	Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the MSDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
Methods for containment	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.
Methods for cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Should not be released into the environment. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the MSDS.

7. Handling and Storage

Handling	Provide adequate ventilation. Avoid inhalation of vapors and contact with skin and eyes. Wear appropriate personal protective equipment. Wash thoroughly after handling. Observe good industrial hygiene practices.
Storage	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the MSDS).

8. Exposure Controls / Personal Protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Engineering controls	General ventilation normally adequate.
Personal protective equipment	
Eye / face protection	If contact is likely, safety glasses with side shields are recommended. Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.
Skin protection	Wear suitable protective clothing.
Respiratory protection	No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection

Gloves are recommended for prolonged use. Nitrile gloves are recommended. Suitable gloves can be recommended by the glove supplier.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties**Appearance****Physical state**

Liquid.

Form

Liquid.

Color

Colorless.

Odor

Slight.

Odor threshold

Not applicable.

pH

7 - 9

Vapor pressure

Not applicable.

Vapor density

Not applicable.

Boiling point

Not applicable.

Melting point/Freezing point

Not applicable.

Solubility (water)

100 % (25 °C) Completely soluble in water.

Specific gravity

Not applicable.

Flash point

Not applicable.

Flammability limits in air, upper, % by volume

Not applicable.

Flammability limits in air, lower, % by volume

Not applicable.

Auto-ignition temperature

Not applicable.

VOC

Not applicable.

Evaporation rate

Not applicable.

Viscosity

Not applicable.

Partition coefficient (n-octanol/water)

Not applicable.

Bulk density

Not applicable.

Other data**Decomposition temperature**

Not applicable.

Flammability (solid, gas)

Not applicable.

10. Chemical Stability & Reactivity Information**Reactivity**

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Conditions to avoid

Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

No hazardous decomposition products are known.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

11. Toxicological Information**Toxicological data****Components****Species****Test Results**

Tris-(hydroxymethyl)aminomethane (CAS 77-86-1)

Acute**Oral****LD50**

Rat

5900 mg/kg

Sensitization	No data available.
Acute effects	May cause discomfort if swallowed.
Local effects	Causes skin, eye and respiratory tract irritation.
Chronic effects	None known.
Carcinogenicity	No data available for this product.
Epidemiology	No epidemiological data is available for this product.
Mutagenicity	No data available.
Reproductive effects	No data available.
Teratogenicity	No data available.
Symptoms and target organs	Irritant effects.

12. Ecological Information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Aquatic toxicity	Not classified.
Persistence and degradability	No data available.
Bioaccumulation / accumulation	
Bioaccumulative potential	
Octanol/water partition coefficient log Kow	
Tris-(hydroxymethyl)aminomethane (CAS 77-86-1)	-2.31 (20°C)
Mobility in environmental media	The product is water soluble and may spread in water systems.

13. Disposal Considerations

Waste codes	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number	
Not listed.	
Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))	
Not regulated.	
DEA Exempt Chemical Mixtures Code Number	
Not regulated.	

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA (Superfund) reportable quantity, lbs

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)**Hazard categories**

Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

Yes

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

16. Other Information**Further information**

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 2
Flammability: 1
Physical hazard: 0

NFPA ratings**Disclaimer**

SGL-DNA Inc cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.