

Jule, Inc.
MATERIAL SAFETY DATA SHEET

Date updated: 12/19/2011

Section 1 - Product and Company Information

Product Name: TRIS – GLYCINE – SAMPLE BUFFER

Product Number: TGSB2XR, TGNSB2X

Company Address: JULE, INC
185 RESEARCH DRIVE SUITE #6
MILFORD, CT 06460 US

Technical Phone: 800-648-1772
Fax: 203-878-7448
Emergency Phone: 800-222-1222 (Poison Control)

Section 2 – Composition/Information on components

- Chemical characterization
- Description

Mixture of the substances listed below with non-hazardous additions.

Listing of dangerous and non – hazardous components

Ingredient Name	Cas #	Percent
Water	Cas # 7732-18-5 EINECS: 231-791-2 RTECS: ZC 0110000	50-100%
Glycerol	Cas # 56-81-5 EINECS: 200-289-5 RTECS:MA 8050000	20-35%
Sodium dodecyl sulphate	Cas # 151-21-3 Xn: R 21/22-36/38 EINECS: 205-788-1 RTECS: WT 1050000	0.0-2.5%

Section 3 – Hazards Identification

- **Information pertaining to particular dangers for man and environment:**
Not applicable
- **Classification System:**
The classification was made according to the latest editions of the EU – lists, and expanded upon from company and literature
- **NFPA ratings (scale 0-4):**
Health = 0
Fire = 1
Reactivity = 0

Section 4 – First Aid Measures

- **General Information:**
No special measures required
- **After inhalation:**
Supply fresh air; consult doctor in case of complaints
- **After Skin Contact:**
Generally the product does not irritate the skin
- **After eye contact:**
Rinse opened eye for several minutes under running water.
- **After swallowing:**
Induce vomiting and call for medical help

Section 5 – Fire Fighting measures

- **Suitable extinguishing agents:**
Use fire fighting measures that suit the environment.
- **Protective Equipment:**
No special measures required.

Section 6 – Accidental release measures

- **Person – related safety precautions:**
Not required
- **Measures for environmental protection:**
Dilute with plenty of water
Do not allow to enter sewers/surfaces or ground water
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Additional information:**
No dangerous substances are released

Section 7 – Handling and Storage

- **Handling**
- **Information for safe handling:**
No special measures required
No special precautions are necessary if used correctly
- **Information about protection against explosions and fires:**
No special measures required
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
No special requirements
- **Information about storage in one common storage facility:**
Not required
- **Further information about storage:**
None
- **Storage Class**
- **Class according to regulation on flammable liquids:**
Void

Section 8 – Exposure controls and personal protection

- **Additional information about design or technical system:**

No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

56-81-5 glycerol

ACGIH TLV: 10mg/m³

OSHA PEL: 15*, 5** MG/M³

*Total dust ** Respirable fraction

- **Additional information:**

The lists that were valid during the creation were used as basis.

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed

- **Breathing equipment:**

Not required

- **Protection of hands:**

Synthetic Gloves

- **Eye protection**

Goggles recommended during refilling

Section 9 - Physical and chemical properties

- **Form:** Liquid
- **Color:** Blue
- **Odor:** Odorless
- **Value/Range Unit Method**
- **Change in condition:**
- **Melting Point:** undetermined
- **Boiling point/Boiling range:** >100 degrees Celsius

- **Ignition Temperature:** 400.0 degrees Celsius

- **Flash Point:** >100 degrees Celsius

- **Danger of explosion:** Product does not present an explosion hazard

- **Explosion Limits:**
- **Lower: 0.9 Vol %**

- **Vapor pressure:** at 20 degrees C 23.0 hPa

- **Density:** Not determined
- **Solubility in/Miscibility with:**
- **Water:** Fully miscible

- **pH value: at 20 degrees Celsius 6.8**
- **Solvent Content:**
- **Organic Solvents:** 26.3%
- **Water:** 70.8%

- **Solids Content:** 2.9%

Section 10 – Stability and reactivity

- **Thermal decomposition/conditions to be avoided:**
No decomposition if used according to specifications

- **Dangerous reactions:**
No dangerous reactions known

- **Dangerous products of decomposition:**
No dangerous decomposition reactions known

Section 11 – Toxicological Information

- **Acute toxicity:**

- **LD/Lc50 values for hazardous components per OSHA criteria:**

- 56-81-5 glycerol

- Oral: LD 50: 250 mg/kg (mus)

- **Primary irritant effect:**

- **On the skin:** no irritant effect

- **On the eyes:** no irritant effect

- **Sensation:**

- No sensitizing effects know.

- **Additional toxicological information:**

- The product is not subject to classification according to the calculation method of the general EU classification guidelines for preparations as issued in the latest version.

- When used and handled according to specifications, the product does not have Any harmful effects according to our experience and the information provided to us.

Section 12- Ecological Information

- **General Notes:**

- Water hazard class 1 (German Regulation) (Self – assessment): slightly hazardous for water.

- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Section 13- Disposal Considerations

- **Product:**
- **Recommendation:**
Hand over to hazardous waste disposers.

- **Uncleaned packaging:**
- **Recommendation:**
Disposal must be made according to official regulations.
- **Recommended cleansing agent:**
Water, if necessary with cleansing agents.

Section 14- Transport Information

- **DOT regulations:**
- **Hazard class**

- **Land transport ADR/RID (cross border)**
- **ADR/RID class:**

- **Maritime transport IMDG:**
- **IMDG Class:**
- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:**

Section 15 – Regulations

- **SARA (Superfund Amendments and Reauthorization Act of 1986 – USA)
Section 302/3-4 (40CFR35.30/40CFR355.40)**

None of the ingredients is listed

TSCA (Toxic Substance Control Act)

7732-18-5	water
56-81-5	glycerol
151-21-3	sodium dodecyl sulphate
76-86-1	Tris (hydroxymethyl) aminomethane

- **California Proposition 65:**

Chemicals know to cause cancer

The product does not contain listed components.

Chemicals known to cause reproductive toxicity:

The product does not contain listed components.

- **Markings according to EU guidelines**

Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations under the EU Directives and the Ordinance on Hazardous Materials (GefstoffV).

- **Safety phrases:**

60 This material and its container must be disposed of as hazardous waste.

- **National regulations:**

- **Classification accordance to VbF:**

Void

Class Share in %

NK 20-35

- **Water hazard class:**

Water hazard class 1 (Self - assessment) : slightly hazardous for water.

Section 16 – Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Department issuing MSDS:** Environmental Health and Safety.

• **Contact:**

Jule, Inc.
185 Research Drive Suite #6
Milford, CT 06460 US
800-648-1772