SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: LISS
MANUFACTURER: American Red Cross Diagnostic Manufacturing Division
9319 Gaither Road
Gaithersburg, MD 20877

TELEPHONE: (800) 882-3737
FAX: (301) 977-5816
EMERGENCY: (240) 751-7038

REVISION DATE: 10/01/2018
PRODUCT USE: Immunohematology Testing

SECTION 2: HAZARDS IDENTIFICATION

WARNING

HAZARD STATEMENTS
Causes eye irritation. May be harmful if absorbed through skin. Causes skin irritation. Harmful if swallowed.

OSHA REGULATORY STATUS
This product is not considered hazardous under 29 CFR 1910.1200.

POTENTIAL HEALTH EFFECTS

Routes of Exposure
Eye and skin contact.

Eyes
Causes eye irritation.

Skin
Causes skin irritation.

Inhalation
Health injuries are not known or expected under normal use.

Ingestion
Harmful if swallowed.

Target Organs
Eyes. Skin.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>CONCENTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fraction V Bovine Albumin, Powdered</td>
<td>9048-46-8</td>
<td>5.0 % (50 g/L)</td>
</tr>
<tr>
<td>Glycine</td>
<td>56-40-6</td>
<td>0.9 % (9.0 g/L)</td>
</tr>
<tr>
<td>Sodium Azide</td>
<td>26628-22-8</td>
<td>0.1 % (1.0 g/L)</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

EYE CONTACT
Immediately flush eyes with plenty of water for 15 minutes. Get immediate medical attention.

SKIN CONTACT
Wash off with soap and water. Get medical attention if symptoms occur.
INHALATION If symptoms develop, remove affected person from source of exposure into fresh air. Get immediate medical attention.

INGESTION If ingestion of a large amount does occur, seek medical attention. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Never give anything by mouth to a victim who is unconscious or is having convulsions.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA
Product does not burn. Use methods for the surrounding fire.

UNSUITABLE EXTINGUISHING MEDIA
Do not use a solid water stream as it may scatter and spread fire.

HAZARDOUS COMBUSTION PRODUCTS
None

PROTECTIVE EQUIPMENT AND SPECIAL PRECAUTIONS FOR FIRE-FIGHTERS
Wear self-contained breathing apparatus for fire-fighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Observe precautions from other sections. Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate personnel protection.

ENVIRONMENTAL PRECAUTIONS
Prevent entry into waterways and sewers.

METHODS FOR CONTAINMENT
Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

METHODS FOR CLEANING UP
Soak up with inert absorbent material. Clean contaminated surface thoroughly. Clean up spills immediately, observing precautions in Protective Equipment section. Sweep up absorbent material and shovel into suitable containers for disposal.

SECTION 7: HANDLING AND STORAGE

HANDLING
Avoid contact with eyes. Avoid prolonged or repeated skin contact. Wash skin thoroughly after using.

STORAGE
Store in a closed container away from incompatible materials.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>HAZARDOUS COMPONENTS</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Azide</td>
<td>REL as HN3 C 0.1 ppm</td>
<td>PEL ppm None</td>
</tr>
<tr>
<td></td>
<td>REL as NaN3 C 0.3 mg/m³</td>
<td>PEL mg/m³ None</td>
</tr>
</tbody>
</table>
Eye/Face Protection  
Wear safety glasses.

Skin Protection  
Wear suitable protective clothing and PPE.

Respiratory Protection  
No personal respiratory protective equipment normally required. An air purifying respirator with an organic vapor cartridge may be used under certain circumstances where airborne concentrations are expected to exceed exposure limits, or if irritation or symptoms are experienced. Respiratory protection must be provided in accordance with 29 CFR 1910.134.

General Hygiene Considerations  
When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Launder contaminated clothing before reuse. Keep away from food and drink.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Clear to pale yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not Available</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>pH</td>
<td>Not Available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not Available</td>
</tr>
<tr>
<td>Freezing Point</td>
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</tr>
<tr>
<td>Boiling Point</td>
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</tr>
<tr>
<td>Flash Point</td>
<td>None</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not Available</td>
</tr>
<tr>
<td>Flammability Limits in Air, Upper, % by Volume</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammability Limits in Air, Lower, % by Volume</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Available</td>
</tr>
<tr>
<td>Vapor Density (air=1)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Density</td>
<td>Not Available</td>
</tr>
<tr>
<td>Solubility (water)</td>
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</tr>
<tr>
<td>Partition Coefficient (n-octanol/water)</td>
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</tr>
<tr>
<td>Auto-Ignition Temperature</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

SECTION 10: CHEMICAL STABILITY AND REACTIVITY INFORMATION

CHEMICAL STABILITY  
Stable.

CONDITIONS TO AVOID  
Heat.

INCOMPATIBLE MATERIALS  
Strong acids, alkalis, oxidizing and reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS  
Oxides of carbon and nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS  
Refer to Hazards Identification Section.

CARCINOGENICITY  
This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC and NTP.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY  
This material is not expected to be harmful to aquatic life.
SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL INSTRUCTIONS
Dispose in accordance with all applicable regulations. Do not reuse containers.

SECTION 14: TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT) REQUIREMENTS
Not regulated as dangerous goods.

SECTION 15: REGULATORY INFORMATION

CERCLA REPORTABLE QUANTITY
None

SARA 311/312 HAZARDS
None

SARA 302 COMPONENTS
None

SARA 313 COMPONENTS
None

TOXIC SUBSTANCES CONTROL ACT (TSCA)
All components of this product comply with all applicable rules and orders under TSCA.

CALIFORNIA PROP 65
This product does not contain any chemicals known to State of California to cause cancer, birth defects or other reproductive harm.

SECTION 16: OTHER INFORMATION

HMIS CLASSIFICATION:
- Health: 1
- Flammability: 0
- Physical Hazard: 0

NFPA RATING:
- Health: 1
- Flammability: 0
- Instability: 0

PREPARED BY: Environmental, Health and Safety