Safety Data Sheet
Van Gieson’s Solution

Section 1 - Chemical Product and Company Identification

**SDS Name:** Van Gieson’s Solution  

**Company Identification:** ROWLEY BIOCHEMICAL  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923

**For information, call:** 978-739-4883  
**Emergency Number:** 800-424-9300  
**For CHEMTREC assistance, call:** 800-424-9300

Section 2 - Hazards Identification

**GHS Classifications**

**Health Hazards**

H301: Acute Oral toxicity: 3  
H312: Acute Dermal Toxicity- Dermal: 4  
H315-Skin Corrosion/Skin Irritation: 2  
H318-Eye Damage/Irritation: 1  
H341-Germ Cell Mutagenicity: 2  
H373: Specific Target Organ Toxicity (Repeated Exposure): 2

**Physical Hazards**

H290-Corrosive to Metals: 1

**Environmental Hazards**

**Acute Aquatic Environmental Hazards:** Not Classified  
**Chronic Environmental Hazards:** Not Classified

**Pictograms or Hazard Symbols and Hazard Statement**

![Warning Symbol]

Warning: Causes skin irritation. Harmful in contact with skin.
Danger! Toxic if swallowed.

Warning! May be corrosive to metals.
Danger: Causes serious eye damage

Warning! May cause damage to the following organs: mucous membranes, blood, kidneys, eyes, skin and liver through repeated or prolonged exposure. Suspected of causing genetic defects

Precautionary Statement Prevention

H301
P264 Wash thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P330 Rinse Mouth.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

H312+H315+H318
P264- Wash thoroughly after handling.
P280- Wear protective gloves.
P302+P352- IF ON SKIN: Wash with plenty of soap and water.
P332+P313- If skin irritation occurs: Get medical advice/attention.
P362- Take off contaminated clothing and wash before reuse

H320
P264: Wash thoroughly after handling.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

H290
P234: Keep only in original container.
P390: Absorb spillage to prevent material damage.
P406: Store in corrosive resistant/container with a resistant inner liner

H373
Section 3 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>3244-88-0</td>
<td>Acid Fuchsin</td>
<td>0.05 v/v</td>
</tr>
<tr>
<td>88-89-1</td>
<td>Picric Acid</td>
<td>1.6 w/v</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>100 v/v</td>
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</tbody>
</table>

Section 4 - First Aid Measures

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Dermal Exposure:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

**Oral Exposure:** If Swallowing seek immediate medical advice.

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 5 - Fire Fighting Measures

**NFPA HEALTH 1 FLAMMABILITY 0 REACTIVITY 0**
Firefighters should wear proper protective clothing and self contained breathing apparatus with full piece operated in positive pressure mode to prevent contact with skin and eyes. Water may be ineffective in fighting fire. Use water spray to keep for exposed containers cool.

**Extinguishing Media:** Use water spray, dry chemical powder, or appropriate foam.

**Special protective equipment for firefighters:** Wear self contained breathing apparatus if necessary.

**Flash Point:** N/A

**Auto ignition Temperature:** N/A

**Explosion Limits:** N/A

**Upper:** N/A

Section 6 - Accidental Release Measures

**Procedure(s) of Personal Precaution(s):**
Wear protective gear.

**Methods for Cleaning up:** Absorb with sand, earth or vermiculite. Carefully sweep up and containerize for proper disposal.

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**Section 7 - Handling and Storage**

Use care when handling. Avoid contact with skin, eyes and clothing. Store at room temperature. Keep container tightly closed in a dry and well-ventilated place. Do not let this material dry out in the container or on the cap threads.

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**Section 8 - Exposure Controls, Personal Protection**

**Engineering Controls:**
Mechanical exhaust

**Personal Protective Equipment:**
Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

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**Section 9 - Physical and Chemical Properties**

**Physical State:** Liquid
**Appearance:** Fuchsin-yellowish
**Vapor Pressure:** N/A
**Vapor Density:** N/A
**Evaporation Rate:** N/A
**Viscosity:** N/A
**Boiling Point:** N/A
**Freezing/Melting Point:** N/A
**Decomposition Temperature:** N/A
**Solubility:** Soluble.
**Specific Gravity/Density:** N/A

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**Section 10 - Stability and Reactivity**

**Chemical Stability:** Use care when handling. Avoid contact with skin, eyes and clothing. Store at room temperature. When dry, picrates are very sensitive to shock and heat (explosion hazard). Stable under normal conditions.

**Conditions to Avoid:** Picric Acid forms salts with many metals some of which are rather sensitive to heat, friction, or impact, ie: lead, iron, zinc, nickel, copper, etc and should be considered dangerously sensitive. The salts formed with ammonia and amines and the molecular complexes with aromatic carbon, etc are in general not so sensitive.

**Materials to Avoid:** Strong oxidizing agents, Strong bases, Reducing agents, Heavy metals, Heavy metal salts, Ammonia

**Hazardous Decomposition Products:** not known
**Hazardous Decomposition Products Under Fire Conditions:** Carbon oxides, nitrogen oxides

**Hazardous Polymerization:** Will not occur.

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**Section 11 - Toxicological Information**

RTECS#: CAS# 3244-88-0: DD4737000.
LD50/LC50: Not available.

**Carcinogenicity:**
CAS# 3244-88-0: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**Epidemiology:** No information available.

**Teratogenicity:** No information available.

**Reproductive Effects:** No information available.

**Neurotoxicity:** No information available.

**Mutagenicity:** No information available.

**Routes of exposure:** Multiple routes: May cause irritation, May be harmful by ingestion, or skin absorption.

**CAS# 88-89-1**
Routes of Entry: Absorbed through skin. Inhalation. Ingestion. Toxicity to Animals: Acute oral toxicity (LD50): 200 mg/kg [Rat].

**Chronic Effects on Humans:**
MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. Causes damage to the following organs: mucous membranes. May cause damage to the following organs: blood, kidneys, liver.

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**Section 12 - Ecological Information**

**Ecotoxicity:**
CAS# 3244-88-0 Acid Fuchsin: Not Available
CAS# 88-89-1 Picric Acid: Not Available

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**Section 13 - Disposal Considerations**

**Appropriate method of disposal of substance or preparation:**
Handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved wasted facility.

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**Section 14 – Transport Information**

**DOT**
Non-Regulated
Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

European/International Regulations

European Labeling in Accordance with EC Directives

Risk Phrases:
- R1 Explosive when dry (CAS#88-89-1 – Picric Acid)
- R21 Harmful in contact with skin.
- R25 Toxic if swallowed
- R36/38 Irritating to eyes and skin
- R48/21/22 Harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.

Safety Phrases:
- S3/7/9 Keep container closed in a cool, well-ventilated place
- S24/25 Avoid contact with skin and eyes
- S20/21 When using do not eat, drink or smoke
- S2 Keep out of the reach of children.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S28 After contact with skin, wash immediately with plenty of soap and water
- S37/39 Wear suitable gloves and eye/face protection

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Revision #1 4/11/14 YM/ MH 6/25/14

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