

Safety Data Sheet
Van Gieson's Solution

Section 1 - Chemical Product and Company Identification

SDS Name: Van Gieson's Solution

Catalog Numbers: B-168-2, E-329-3, F-350-3, F-369-5, F-370-3B, F-371-4, F-374-6, F-378-2, F-379-2, F-390-5, F-392-3B, J-611-2, SO-463.

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: 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: mucuous 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

P260: Do not breathe dust/fume/gas/ mist vapors/ spray.

P314: Get medical attention if you feel unwell.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
3244-88-0	Acid Fuchsin	0.05 v/v
88-89-1	Picric Acid	1.6 w/v
7732-18-5	Water	100 v/v

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.

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.

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.

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

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.

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.

Section 12 - Ecological Information

Ecotoxicity:

CAS# 3244-88-0 Acid Fuchsin: Not Available

CAS# 88-89-1 Picric Acid: Not Available

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 waste facility.

Section 14 – Transport Information

DOT

Non-Regulated

Section 15 - Regulatory Information

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

Section 16 - Additional Information

MSDS Creation Date: 1/8/2010

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

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