

Safety Data Sheet

Brun's Solution (Mounting Medium)

Section 1 - Chemical Product and Company Identification

SDS Name: Brun's Solution (Mounting Medium)

Catalog Numbers: SO-617

Company Identification: Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.
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

H341-Germ cell mutagenicity: 2

25.5% of the mixture consists of ingredients of unknown acute dermal toxicity.

26.1% of the mixture consists of ingredients of unknown acute inhalation toxicity.

Pictograms or Hazard Symbols and Hazard Statement(s):



Signal Word: Warning

Hazard Statements:

H341-Suspected of causing genetic defects

Precautionary Statements:

P201-Obtain special instructions before use.

P202-Do not handle until all safety precautions have been read and understood.

P280-Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313-If exposed or concerned: Get medical advice/attention.

P405-Store locked up.

P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
50-99-7	D-(+)-Glucose	25.5 w/v
56-81-5	Glycerin	6.4 v/v
76-22-2	Camphor	0.6 v/v
108-95-2	Phenol	0.3 v/v
7732-18-5	Water	Balance

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. Seek medical attention.

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

Oral Exposure: If swallowed, seek immediate medical advice.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, get medical attention.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam.

Hazardous Combustion Products: Carbon oxides, potentially hazardous fumes and gases.

Flash Point: Not available

Autoignition Temperature: Not available

Explosion Limits, Lower: Not available

Upper: Not available

NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):

Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation.

Methods for Cleaning up: Absorb with sand, earth, or vermiculite. Carefully sweep up and containerize for proper disposal. Do not release to the environment. Do not release to drains.

Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Wash thoroughly after handling. Ensure adequate ventilation. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Protect from direct sunlight. Keep in a tightly closed container. Store in a cool, dry, and well-ventilated area. Keep away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Exposure Limits:

Chemical Name	ACGIH - TLV	NIOSH - IDLH	OSHA - Final PELs
Glucose CAS#50-99-7	Not listed	Not listed	Not listed
Glycerin CAS#56-81-5	Not listed	Not listed	5 mg/m3 TWA 15 mg/m3 TWA
Camphor CAS#76-22-2	2 ppm TWA 3 ppm STEL	2 mg/m3 TWA 200 mg/m3 IDLH	2 mg/m3 TWA
Phenol CAS#108-95-2	5 ppm Skin TWA	5 ppm TWA 19 mg/m3 TWA 15.6 ppm Ceiling 60 mg/m3 Ceiling 250 ppm IDLH	5 ppm TWA 19 mg/m3 TWA

OSHA Vacated PELs: Glycerin: 5 mg/m³ TWA; 10 mg/m³ TWA
Camphor: 2 mg/m³ TWA
Phenol: 5 ppm TWA; 19 mg/m³ Skin TWA

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Appearance: Clear, colorless
Odor: Not available
Vapor Pressure: Not available
Odor Threshold: Not available
Vapor Density: Not available
pH: 3.6-7.4
Relative Density: Not available
Melting point/freezing point: Not available
Solubility: Not available
Boiling Point: Not available
Flash Point: Not available
Evaporation Rate: Not available
Flammability (solid, gas): Not available
Partition coefficient: n-octanol/water: Not available
Autoignition Temperature: Not available
Decomposition Temperature: Not available
Viscosity: Not available
Specific Gravity/Density: Not available

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, ignition sources, and excess heat. Direct sunlight.
Incompatibilities with other materials: Strong oxidizing agents, bases, strong reducing agents, acids, halogens, metals, organic materials, and lead.
Hazardous Decomposition Products: Carbon oxides, potentially hazardous fumes and gases.

Section 11 - Toxicological Information

CAS#50-99-7 Glucose: RTECS#: LZ6600000

LD50 Oral: 25.8 g/kg (rat)
LD50 Dermal: Not available
LC50 Inhalation: Not available

Carcinogenicity: Glucose CAS#50-99-7 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

CAS#56-81-5 Glycerin: RTECS#: MA8050000

LD50 Oral: 12600 mg/kg (rat)

LD50 Dermal: >10 g/kg (rabbit)

LC50 Inhalation: >2.75 mg/L 4h mist (rat)

Carcinogenicity: Glycerin CAS#56-81-5 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

CAS#76-22-2 Camphor: RTECS#: EX1225000

LD50 Oral: >5 g/kg (rat)

LD50 Dermal: >2 g/kg (rat)

LC50 Inhalation: Not available

Carcinogenicity: Camphor CAS#76-22-2 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

CAS#108-95-2 Phenol: RTECS#: SJ3325000

LD50 Oral: 340 mg/kg (rat)

LD50 Dermal: 630 mg/kg (rabbit)

LC50 Inhalation: 0.5667 mg/L 4h dust/mist (calculation method)

Carcinogenicity: Phenol CAS#108-95-2 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

Information on the likely routes of exposure: Routes of entry anticipated: oral, dermal, inhalation, and eye.

Epidemiology: Not available.

Teratogenicity: Not available.

Reproductive Effects: Experiments with Phenol have shown reproductive toxicity effects on laboratory animals.

Developmental Effects: Not available.

Neurotoxicity: Not available.

Mutagenicity: Suspected of causing genetic defects.

Specific Target Organ Toxicity, Single Exposure: Not available.

Specific Target Organ Toxicity, Repeated Exposure: Not available.

Symptoms associated with exposure: Suspected of causing genetic defects. Ingestion may cause stomach irregularities, kidney irregularities. Overexposure may cause headache, dizziness, confusion, tiredness, nausea, vomiting, diarrhea.

The toxicological properties of this material have not been thoroughly investigated.

Section 12 - Ecological Information

Ecotoxicity: Do not release to the environment. Do not release to drains.

CAS#56-81-5 Glycerin:

LC50, freshwater fish: 5400 mg/L 96h static (oncorhynchus mykiss)(rainbow trout)

CAS#76-2-2 Camphor:

LC50, freshwater fish: 33.25 mg/L 96h semi-static (danio rerio)(zebra fish)

EC50, freshwater algae: 1.71 mg/L 72h static (pseudokirchneriella subcapitata)(green algae)

EC50, water flea: 4.23 mg/L 48h static (daphnia magna)

EC50, bacteria: >100 mg/L 3h static (activated sludge)

CAS#108-95-2 Phenol:

LC50, freshwater fish: 8.9 mg/L 96h flow-through (oncorhynchus mykiss)(rainbow trout)

EC50, freshwater algae: 61.1 mg/L 96h static (pseudokirchneriella subcapitata)(green algae)

EC50, freshwater algae: 187-279 mg/L 72h static (desmodesmus subspicatus)(green algae)

EC50, water flea: 4.24-10.7 mg/L 48h static (daphnia magna)

EC50, water flea: 3.1 mg/L 48h static (ceriodaphnia dubia)

EC50, microtox: 23.28 mg/L 5min

IC50, bacteria: 21 mg/L 24h static (microorganisms)

Persistence and degradability: Not available.

Bio-accumulative potential: Not available.

Mobility: Will likely be mobile in the environment.

Section 13 - Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal, state, and local regulations.

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 SDS contains all the information required by the CPR.

Section 16 - Additional Information

SDS Creation Date: 10/15/12

Revision #1: 6/11/15 RC

Revision #2: 11-10-23

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