SPI Supplies Division
Structure Probe, Inc.
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Manufacturer's CAGE: 1P573

Safety Data Sheet

Date Effective: April 3, 2017

SPI Catalog # 02578-AB

SPI-Chem™ Giemsa Stain Solution

Section 1.1: Identification

Chemical Name/Synonyms ..... Giemsa Stain

Product or Trade Name ..... SPI-Chem™ Giemsa Stain Solution

Section 1.2: Relevant Uses/Restrictions

Laboratory chemical for microscopy.

Section 1.3: Supplier of the Safety Data Sheet

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Section 1.4: Emergency telephone number

Emergencies
Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...
Worldwide phone: 1-(703)-741-5970
Toll-free phone: 1-(800)-424-9300 USA + Canada only

Section 2: Hazard Identification

2.1 Classification of the substance

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquid, category 2
Skin irritant, category 2
Eye irritant, category 2B
STOT Single Exposure, category 1

2.2 Label elements

Pictogram

Signal Word: Danger

Hazard statements:

H315: Causes skin irritation.
H320: Causes eye irritation.
H225: Highly flammable liquid and vapor.
H370: Causes damage to organs.

Precautionary statements:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/ eye protection/ face protection.
P303 + 361 + 353: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.
P305 + 351 + 338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321: Specific treatment (see supplemental first aid instructions on this label.)
P333 + 313: If skin irritation occurs: Get medical advice / attention.
P337 + 313: If eye irritation persists: Get medical advice / attention.
P370 + 378: In case of fire: Use for extinction: CO_2, powder or water spray.
P362 + 363: Take off contaminated clothing and wash it before reuse.
P405: Store locked up.
P403 + 235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents/container in accordance with local/ regional /national/ international regulations.

2.3 Other Hazards:

Results of PBT and vPvB assessment:
PBT: Not applicable
vPvB: Not applicable

Hazardous Material Information System USA

Health 3
Fire Hazard 3
Reactivity 0
Personal Protection .....

NFPA Rating (estimated)

Health 3

Flammability..... 3
Reactivity 0

Section 3: Composition

3.1 Substances: Not applicable

3.2 Mixtures:

Mixture of the substances listed below with nonhazardous additions.

CAS#	Component	Percent
56-81-5	Glycerol	50-100 %
67-56-1	Methyl alcohol	25-50 %

Section 4: First Aid Measures

4.1 Description of first aid measures:

General Information:

Immediately remove any clothing soiled by the product.
Remove breathing apparatus only after contaminated clothing have been completely removed.
In case of irregular breathing or respiratory arrest, provide artificial respiration.

After inhalation:

Supply fresh air or oxygen; call for doctor.
In case of unconsciousness, place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Do not induce vomiting; immediately call for medical help.

Information for doctor:

No further relevant information available.

4.2 Most important symptoms and effects, both acute and delayed:

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

Section 5: Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing agents: CO_2, sand, extinguishing powder. Do not use water.

For safety reasons, unsuitable extinguishing agents: Water with full jet.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Special protective equipment: Mouth respiratory protective device.

Section 6: Accidental Release Measures

6.1 Personal precautions

Wear protective equipment.
Keep unprotected persons away.

6.2 Environmental precautions

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-bonding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to Section 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents.

6.4 Reference to other sections

Refer to Section 7 for information on safe handling.
Refer to Section 8 for information on personal protection equipment.
Refer to Section 13 for information on disposal.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Protective measures

Ensure good ventilation/ exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
Keep ignition sources away – Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Store in a cool place.
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end uses

Laboratory chemical for microscopy.
This material is not being offered for clinical or diagnostic applications, agricultural uses or for human or animal consumption.

Section 8: Exposure Controls and Personal Protection

8.1 Control parameter and Personal Protection

Workplace exposure limits

Components with limit values that require monitoring at the workplace:

Glycerol: CAS# 56-81-5

PEL: Long-term value, total dust: 15 mg/m^3

PEL: Long-term value, respirable fraction: 5 mg/m^3

TLV: – Insufficient data – human occupational exposure

Methyl Alcohol: CAS# 67-56-1

PEL: Long-term value: 260 mg/m^3, 200 ppm

REL: Short-term value: 325 mg/m^3, 250 ppm

REL: Long-term value: 260 mg/m^3, 200 ppm
Skin

TLV: Short-term value: 328 mg/m^3, 250 ppm
Long-term value: 262 mg/m^3, 200 ppm
Skin; BEI

Biological limit values

Ingredient with biological limit vales: Methyl Alcohol, CAS# 67-56-1

BEI: 15 mg/L
Medium: urine
Time: end of shift
Parameter: Methanol (background, nonspecific)

8.2 Exposure controls

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device.
In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material must be made on consideration of the penetration times, rates of diffusion and the degradation of the glove material.

The selection of the suitable gloves does not only depend upon the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles.

Section 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:

Form: Liquid

Color: According to product specifications

Odor: Characteristic

Odor threshold: Not determined

pH: Not determined

Melting point/Freezing point: Undetermined

Boiling point/Boiling point range: 64 °C (147 °F)

Flash Point: 11 °C (52 °F)

Evaporation rate: Not determined

Flammability (solid, gas): Not flammable

Flammability or explosive limits:

Lower: 0.9 Vol%

Upper: 44.0 Vol%

Vapor Pressure at 20 °C (68 °F): 128 hPa (96 mm Hg)

Vapor density: Not determined

Relative density: Not determined

Solubility / Miscibility with Water: Not miscible or difficult to mix:

Partition coefficient (n-octanol/water): Not determined

Ignition temperature: 400 °C (752 °F)

Auto Igniting: Product is not self-igniting

Decomposition temperature: Not determined

Viscosity: Not determined

Explosive properties: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

Solvent content:

Organic solvents – 99.8%

VOC content – 38.5%

384.8 g/l /3.21 lb/gl

9.2 Other information: No further information available.

Section 10: Stability and Reactivity

10.1 Reactivity: No further relevant information available

10.2 Chemical Stability:

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

10.3 Possibility of Hazardous Reactions: No dangerous reactions known.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

Section 11: Toxicological Information

Information on the likely routes of exposure

11.1 Information on toxicological effects

A.Acute toxicity

LD/LC50 values that are relevant for classification:
Methyl Alcohol, CAS# 67-56-1

Oral, rat	LD50: 5628 mg/kg
Dermal, rabbit	LD50: 15800 mg/kg

B. Skin corrosion/irritation

No irritant effect

C. Serious eye damage/irritation

No irritant effect

D. Respiratory or skin sensitization

No sensitizing effects known

E. Germ cell mutagenicity

No additional information available.

F. Carcinogenicity

IARC: None of the ingredients is listed.
NTP: No of the ingredients is listed.
OSHA-Ca: None of the ingredients is listed.

G. Reproductive toxicity:

No additional information available.

H. STOT-single exposure

No additional information available.

I.STOT-repeated exposure

No additional information available.

J. Aspiration hazard

No additional information available.

Section 12: Ecological Information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bio-accumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

General notes:

Water hazard class 1 (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.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

12.6 Other adverse effects

No further relevant information available.

Section 13: Disposal Considerations

13.1 Waste treatment methods

Recommendation:

Must not be disposed of together with household garbage.

Do not allow product to reach sewage system.

Uncleaned packaging's Recommendation:

Disposal must be made according to official regulations.

Section 14: Transport Information

DOT

UN#: UN1230

Proper shipping name: Methanol mixture

Class: 3 Flammable liquids

Label: 3, 6.1

Packing Group: II

Quantity limitations:

Passenger aircraft/rail: 1 Liter

On cargo aircraft only: 60 Liters

IATA

UN#: UN1230

Proper shipping name: Methanol mixture

Class: 3 Flammable liquids

Label: 3 (6.1)

Packing Group: II

Environmental hazards: Not applicable

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture

TSCA Inventory:

Glycerol, CAS# 56-81-5 listed.
Methyl Alcohol, CAS# 67-56-1 listed.

SARA Sections 311/312:

Glycerol, CAS# 56-81-5
Chronic health hazard
Methyl Alcohol, CAS# 67-56-1
Fire hazard
Acute health hazard
Chronic health hazard

SARA Section 313 (specific toxic chemical listings);
Methyl Alcohol, CAS# 67-56-1 listed.

SARA Section 355 (extremely hazardous substances):
None of the ingredients is listed.

Proposition 65:

Chemicals known to cause cancer:
None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.
Chemicals known to cause developmental toxicity:
Methyl Alcohol, CAS# 67-56-14 is listed.

Carcinogenic categories:

EPA: None of the ingredients is listed.
ACGIH: None of the ingredients is listed.
NIOSH-Ca: None of the ingredients is listed.

State Right-to-Know Lists:

Glycerol, CAS# 56-81-5
Is listed on the Massachusetts, Pennsylvania, and New Jersey lists.
Methyl Alcohol, CAS# 67-56-1
Is listed on the Massachusetts, Pennsylvania, and New Jersey lists.

15.2 Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out.

Date of Preparation: April 3, 2017

Abbreviations and acronyms
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
CMRG: Chemical Manufacturer's Recommended Guidelines

IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
AIHA: American Industrial Hygiene Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bio-accumulative and Toxicological
vPvB: very Persistent and very Bio-accumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
STEL: Short Term Exposure Limit
CEIL: Ceiling

Section 16: Other Information

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