



S1-Histo™

1. Identification**Product Name:** S1-Histo™**Item #:** 4302**Web SDS:****Synonyms:** Petroleum Distillates**Recommended Use:** Clearing Agent**Manufacturer:**BBC Biochemical
409 Eleanor Lane,
Mount Vernon, WA 98273
1-800-635-4477**Restrictions on Use:** N/A**In Case of Emergency:**Chemtec US 1-800-424-9300
Chemtec International 703-527-3887**2. Hazards Identification****OSHA Hazard Classification(s):**Acute Toxicity - Inhalation - Category 4
Skin Irritation - Category 2
Eye Irritation - Category 2B
Toxic to Reproduction - Category 1B
Specific Target Organ Toxicity (repeated exposure) - Category 2
Aspiration Hazard - Category 1
Flammable Liquids - Category 2**Signal Word:** Danger**Hazard Statement(s):** Harmful if inhaled. Causes skin irritation. Causes eye irritation. May damage fertility or the unborn child. May cause damage to organs (cardiovascular system, central nervous system) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Highly flammable liquid and vapor.**Pictogram(s):****Precautionary Statement(s):** Prevention: Avoid breathing dust, vapors. Use only outdoors or in a well-ventilated area. Wash body thoroughly after handling. Wear protective gloves. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection and face protection. Do not breathe dust, vapors. Keep away from heat sources and open flame. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting and equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Response: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell. If on skin: Wash with plenty of water. Specific treatment (see first aid section on this label). If skin irritation or rash occurs: Get medical attention. Take off all contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing If eye irritation persists: Get medical attention. If exposed or concerned: Get medical attention. If swallowed: Immediately call a doctor. Rinse Mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use water, dry chemical, CO2 or foam to extinguish.

Storage: Store locked up. Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container in accordance with local regulations.

Descriptions of Hazards not otherwise classified: N/A**Percent of mixture with unknown acute toxicity:** N/A**3. Composition and Information on Ingredients**

Chemical Name	Common Name	CAS #	Concentration %
Light Aliphatic Solvent		Trade Secret	100



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4. First Aid Measures

Eye Contact: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact: If on skin (or hair): Take off immediately all contaminated clothing and wash before reuse. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.

Inhalation: Remove to fresh air; give artificial respiration if breathing has stopped. Get medical advice/attention if you feel unwell.

Ingestion: Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

Symptoms: Causes central nervous system depression. Dermatitis may result from prolonged or repeated exposure. Potential for chemical pneumonitis. Consider: gastric lavage with protected airway, administration of activated charcoal.

Recommendations for immediate medical care/special treatment: Get medical advice/attention if you feel unwell, in general no treatment is necessary.

5. Fire- Fighting Measures

Extinguishing Media: Dry chemical, carbon dioxide, alcohol foam. Use water spray to cool fire-exposed containers and disperse vapors. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Fire Hazards (Chemical): OSHA classified Flammable Liquid Category 2

Special Protective Equipment: Fire fighters should use self-contained breathing apparatus and protective clothing.

Precautions for Firefighters: Carbon monoxide and unidentified organic compounds may be formed during combustion.

6. Accidental Release Measures

Emergency Procedures: Evacuate the area of all unnecessary personnel. Wear suitable protective equipment. Eliminate all sources of ignition and provide ventilation.

Protective Equipment: See section 8

Environmental Precautions: Prevent release to the environment by using barriers. Under Section 311 of the Clean Water Act (CWA) this material is considered an oil. As such, spills into surface waters must be reported to the National Response Center at (800) 424-8802. This material is covered by EPA's Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Petroleum Exclusion. Therefore, releases to the environment may not be reportable under CERCLA. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Vapor may form an explosive mixture with air. U.S. regulations may require reporting releases of this material to the environment which exceed the reportable quantity to the National Response Center at (800) 424-8802.

Containment and Clean-Up Procedures: Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see Section 8 of the Material Safety Data Sheet (MSDS). For guidance on disposal of spilled material see Section 13 of this MSDS. Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapor or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Monitor area with combustible gas indicator.

7. Handling and Storage

Handling: Do not breathe vapors. Do not eat, drink or smoke when using this product. Keep away from heat, sparks, open flames, hot surfaces. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Storage: Store locked up. Store in a well-ventilated place. Keep cool. Bulk storage tanks should be diked. Store away from direct sunlight, ignition sources and other sources of heat.

8. Exposure Controls/Personal Protection

OSHA Permissible Exposure Limits (PELs):

Reagent	CAS #	OSHA PEL TWA



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Light aliphatic solvent	N/A	Manufacturer recommends 100ppm
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ACGIH Threshold Limit Values (TLVs):

Reagent	CAS #	ACGIH PEL TLV	ACGIH STEL
N/A			

Engineering Controls: Use in a well ventilated area to prevent exposure. Maintain eyewash fountain and quick-drench facilities in work areas.

Personal Protective Measures: Wear gloves, lab coat, eye protection and impervious footwear. Contact lenses should not be worn when working with this material.

Special PPE Requirements: If ventilation hood not available wear respirator.

9. Physical and Chemical Properties Section

Appearance: Colorless, Liquid

Molecular Weight: N/A

Molecular Formula: 0.740 to 0.76 at 15.6°C

pH: N/A

Boiling Point and Boiling Range: 118°C to 150°C

Melting Point/Freezing Point: N/A

Flash Point: 14°C to 18°C CC

Specific Gravity/Relative Density: SG= 0.74-0.76 at 15.6°C Density=6.34

Odor: Hydrocarbon

Odor Threshold: N/A

Color: Colorless

Flammability (solid/gas): 100% Volatile

Vapor Density: 4.1 (Air-1)

Upper/Lower flammability or explosive limits: N/A

Vapor Pressure: 1.5 kPa at 20.0°C

Evaporation Rate: 1.0 (n-Butyl Acetate=1)

Partition Coefficient: n-octanol/water: N/A

Viscosity: N/A

Auto-ignition temperature: N/A

Solubility: Negligible in water

Decomposition Temperature: N/A

10. Stability and Reactivity

Reactivity: N/A

Chemical Stability: Stable

Conditions of Stability/Instability: Avoid heat, sparks, open flames, and other ignition sources.

Stabilizers needed: None

Safety issue indicated by appearance change: N/A

Other: N/A

Hazardous Reactions: N/A

Hazardous Polymerization: Does not occur

Conditions to avoid: N/A

Classes of Incompatible Materials: Oxidizers, Strong Acids, Strong Bases

Hazardous Decomposition Products: Thermal-oxidation degradation can produce oxides of carbon. Toxic gases and vapors (i.e. Carbon monoxide) may be released in a fire.

**11. Toxicological Information****Likely Routes of Exposure****Eyes:** Irritation.**Skin:** Irritation.**Inhalation:** Dizziness, headache. High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.**Ingestion:** Nausea. Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.**Signs or Symptoms of Exposure:** Nausea. Cardiovascular system: Chronic abuse of similar materials has been associated with irregular heart rhythms and cardiac arrest. Central nervous system: Repeated exposure affects the nervous system. Kidney: caused kidney effects in male rats which are not considered relevant to humans.**Effects from short term exposure (delayed, immediate, chronic):** Irritation to the eyes, nose, throat; headache, dizziness, nausea. The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains the following substance(s) known to the State of California to cause birth defects or other reproductive harm.: Benzene (71-43-2) 0.015%, Toluene (108- 88-3) 0.0118%.**Acute Toxicity (Numerical Measures):** LD50 2000mg/kg (oral, rat) ; LD50 2000mg/kg (dermal, rabbit) ; LC50 5000 ppm/1h (Inhalation, rat)**Carcinogenicity (NTP, IARC, OSHA):** The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains the following substance(s) known to the State of California to cause cancer.: Ethylbenzene (100-41-4) 0.03%, Benzene (71-43-2) 0.015%.**12. Ecological Information****Ecotoxicity:** Acute Toxicity: Fish: Expected to be toxic: LC/EC/IC50 greater than or equal to 10 mg/l Aquatic Invertebrates: Expected to be toxic: LC/EC/IC50 greater than or equal to 10 mg/l Algae: Expected to be toxic: LC/EC/IC50 greater than or equal to 10 mg/l Microorganisms: Expected to be toxic: LC/EC/IC50 greater than or equal to 10 mg/l**Persistence and degradability:** Absorbs to soil and has low mobility. Readily biodegradable. Oxidizes rapidly by photo-chemical reactions in air. Has the potential to bioaccumulate.**Bioaccumulation Potential (octanol-water partition coefficient, BCF):** N/A**Mobility in the soil:** N/A**Adverse Environmental Effects:** N/A**13. Disposal Considerations****Recommended Disposal Containers:** Check with your local waste authorities***Recommended Disposal Methods:** Do not dispose of in drains, check with your local waste authorities.***Physical/Chemical Properties affecting Disposal:** See section 2 and section 9 applicable information.***Special Precautions for Landfill and Incineration Activities:** Check with your local waste authorities.***Waste Stream:** Consult your local or regional authorities.***14. Transport Information****UN Number:** UN1268**UN Proper Shipping Name:** Petroleum distillates, n.o.s.**Transport Hazard Class(es):** 3**Packing Group Number:** II**Environmental Hazards (IMDG code):****Marine Pollutant:** No**Transport in Bulk (IBC Code):** N/A**Special Transport Precautions:** This material is an "OIL" under 49 CFR part 130 when transported in a container of 3500 gallon capacity or greater.**15. Regulatory Information****OSHA:** N/A



Safety Data Sheet

S1-Histo™

DOT: N/A
EPA: N/A
CPSC: N/A



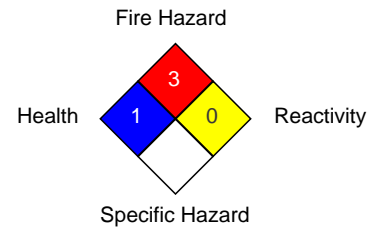
16. Other Information

Revision Date: 02/03/2016

NFPA

Health	1
Fire Hazard	3
Reactivity	0
Specific Hazard	

National Fire Protection Association (USA) NFPA



HMIS

Health	1
Flammability	3
Physical Hazard	0
Personal Protection	

Hazardous Material Information System HMIS

Health	1
Flammability	3
Physical Hazard	0
Personal Protection	

Notice to Reader:

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