



Blood Fixative MSDS

Effective Date: June 14, 2013

24 Hour Emergency Contact:

ChemTel: (800)255-3924

www.pioneerforensics.com

1. PRODUCT AND COMPANY IDENTIFICATION

Product: Blood Fixative
Product Number(s): PF017, PF018
CAS#: Mixture
Synonyms: Mixture
Manufacturer: Pioneer Forensics, LLC
804 E. Eisenhower Blvd.
Loveland, CO 80537
Ph: (970) 292-8487
Emergency Number: (800) 255-3924 (CHEM-TEL)
Customer Service: (970) 292-8487

2. HAZARDS IDENTIFICATION

Emergency Overview: MAY CAUSE IRRITATION TO SKIN, EYES, RESPIRATORY TRACT, AND/OR GASTROINTESTINAL TRACT. MAY BE HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.

Safety Ratings: Health: 1, Slight Reactivity: 0, None
Flammability: 0, None Contact: 1, Slight

OSHA Regulatory Status: This product is not considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Acute Health Effects:

Routes of Exposure: Inhalation, ingestion, skin contact, eye contact

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed. May cause irritation of the gastrointestinal tract.

Skin Contact: May be harmful if absorbed through skin. May cause skin irritation.

Eye Contact: May cause eye irritation.

Target Organs: Skin, mucous membranes, lungs, gastrointestinal tract

Chronic Health Effects: No chronic health effects known or anticipated.

Potential Environmental Effects: This product is not expected to be harmful to the environment.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS#</u>	<u>Chemical Formula</u>	<u>Formula Weight</u>	<u>Hazardous</u>	<u>% by Weight</u>
Water	7732-18-5	H ₂ O	18.02	No	≈98
Sulfosalicylic Acid, Dihydrate	5965-83-3	C ₇ H ₆ O ₆ S·2H ₂ O	254.22	Yes	≈2

4. FIRST AID MEASURES

First Aid Procedures:

- Inhalation:** Remove to fresh air. If breathing is difficult, administer oxygen. If the victim is not breathing, provide artificial respiration. Get medical attention if symptoms persist.
- Ingestion:** If swallowed, give several glasses of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.
- Skin Contact:** In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists.
- Eye Contact:** Check for and remove contact lenses. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention if irritation persists.

General Advice: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Notes to Physician: Treat symptomatically

5. FIRE FIGHTING MEASURES

NFPA Ratings: Health: 0 Flammability: 0 Reactivity: 0

Flammable Properties: Non-flammable

Flash Point: Not applicable

Auto-ignition Temp: Not applicable

Flammable Limits in Air (% by volume): Not applicable

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media: No information found

Hazardous Combustion Products: No information found

Specific Hazards: No information found

Special Protective Equipment For Firefighters: As in any fire, wear MSHA/NIOSH approved (or equivalent) self-contained positive pressure or pressure-demand breathing apparatus and full protective gear.

Specific Methods: Use water spray to cool unopened containers. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion, do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in the Exposure Control and Personal Protection Section 8. Avoid contact with eyes, skin, and clothing.

Environmental Precautions: Prevent further leakage or spillage if safe to do so.

Methods for Containment: Prevent entry into waterways, sewer, basements or confined areas.

Methods for Cleaning Up: Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, fleece) and place in a suitable container for reclamation or disposal. Clean contaminated surface thoroughly. Never return spills in original containers for re-use. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Handling: Wear personal protective equipment (see section 8). Avoid contact with skin, eyes and clothing. Do not ingest or inhale. Wash thoroughly after handling.

Storage: Store in a cool, dry, ventilated area. Keep containers tightly closed and upright.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure Limits: No information found

Engineering Controls: In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable level.

Personal Protective Equipment:

Eye/Face Protection: Wear safety glasses or goggles.

Skin Protection: Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory Protection: Not expected to require the use of a respirator, however, if engineering controls do not maintain airborne concentrations to an acceptable level, an approved/certified respirator should be worn.

General Hygiene Considerations: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Appearance: Transparent
Color: Colorless
Odor: Odorless
Molecular Formula: Mixture

Molecular Weight:	Mixture
pH:	No information found
Specific Gravity:	1.0 (estimated)
Freezing/Melting Point:	0° C (32° F) (estimated)
Boiling Point:	100° C (212° F) (estimated)
Flash Point:	Not applicable
Auto Ignition Temperature:	Not applicable
Flammable Limits in Air (% by Volume):	Not applicable
Solubility:	Miscible with water
Vapor Pressure:	No information found
Vapor Density:	No information found
Percent Volatile:	No information found
Odor threshold (ppm):	No information found
Evaporation Rate:	No information found
Partition Coefficient (n-octanol/water):	No information found

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	No information found
Incompatible Materials:	No information found
Hazardous Decomposition Products:	No information found
Possibility of Hazardous Reactions:	Hazardous reactions are not expected to occur with this product.
Hazardous Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Product:	No information found
Components:	Sulfosalicylic Acid, Anhydrous: Oral Rat LD50: 1850 mg/kg
Acute Effects:	Low hazard for usual industrial or commercial handling.
Local Effects:	May cause mild eye, skin, or respiratory system irritation.
Sensitization:	Not a skin sensitizer.
Chronic Effects:	No information found.
Carcinogenic Effects:	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Skin Corrosion/Irritation:	May cause mild skin irritation.
Epidemiology:	No epidemiological data is available for this product.

Mutagenicity: No information found

Neurological Effects: No information found

Reproductive Effects: No information found

Teratogenic Effects: No information found

Target Organs and Symptoms: Skin, mucous membranes, lungs, gastrointestinal tract . Irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicological Data: No information found

Ecotoxicity: This product has no known eco-toxicological effects.

Environmental Effects: This product is not expected to be harmful to the environment.

Aquatic Toxicity: This material is not expected to be harmful to aquatic life.

Persistence and Degradability: No information found

Partition Coefficient (n-octanol/water): No information found

13. DISPOSAL INFORMATION

Disposal Instructions: Dispose of this material and its container in accordance with local, state, and federal regulations.

Contaminated Packaging: Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

Waste Codes: No information found

14. TRANSPORT INFORMATION

DOT: Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA: This product is not considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Inventory: Water; Sulfosalicylic Acid, *Anhydrous*

U.S. EPCRA (SARA Title III):

Sections 311/312:	<u>Hazard Categories</u>	<u>List (Yes/No)</u>
	Section 311 – Hazardous Chemical	No
	Immediate Hazard	No
	Delayed Hazard	No
	Fire Hazard	No
	Pressure Hazard	No
	Reactivity Hazard	No

International Inventories:	<u>Country(s) or Region</u>	<u>Inventory Name</u>	<u>On Inventory (Yes/No)*</u>
	Australia	Australian Inventory of Chemical Substances (AICS)	N/A
	Canada	Domestic Substances List (DSL)	N/A
	Canada	Non-Domestic Substances List (NDSL)	N/A
	China	Inventory of Existing Chemical Substances in China (IECSC)	N/A
	Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	N/A
	Europe	European List of Notified Chemical Substances (ELINCS)	N/A
	Japan	Inventory of Existing and New Chemical Substances (ENCS)	N/A
	Korea	Existing Chemicals List (ECL)	N/A
	New Zealand	New Zealand Inventory	N/A
	Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	N/A

*A "Yes" indicates that the listed component(s) of this product comply with the inventory requirements administered by the governing country(s)

16. OTHER INFORMATION

Product Use: Laboratory and/or field reagent

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Reason for Revision: Not applicable