


SECTION 1: Product and company identification

Product Identifier

Product Form	: Substance
Name	: SPERM HY-LITER, Small, Medium Large Kit
Synonyms	: None
Intended Use of Product	: Immunofluorescent detection of sperm from sexual assault evidence
Contact information	: Independent Forensics, 500 Waters Edge, Suite 210 : Lombard IL 60148 U.S.A. : phone (1) 708.234.1200; fax (1) 708.978.5115; : e-mail info@ifi-test.com
Emergency telephone	: 1-866-424-2400

SECTION 2: Hazards identification

Classification of substance or mixture	: immunofluorescent staining solutions,
Hazard pictogram	: 
Signal word	: Warning
Hazard Statements	: H303 May be harmful if swallowed : H313 May be harmful if contact with skin : H316 May cause mild skin irritation : H320 Causes eye irritation
Precautionary Statements	: P262: Do not get in eyes, on skin, or on clothing : P270: Do not eat, drink or smoke when using this product : P303 + P361 + P353: IF ON SKIN (or hair); remove/take off immediately all contaminated clothing. Rinse skin with water/shower : P305+P351+P338; IF IN EYES; Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Other hazards	: no additional information available
Unknown acute toxicity	: no data available

SECTION 3: Composition / Information on Ingredients

Substances

Purity : >95%

CAS#	Chemical Name
None	Phosphate buffered saline
7647-14-5	Sodium Chloride
7601-54-9	Sodium Phosphate
9002-93-1	Triton X-100
26628-22-8	Sodium Azide
9048-46-8	BSA fraction V
50-00-0	Formalin
56-81-5	Glycerol
28718-90-3	DAPI
None	Alexa-488

SECTION 4: First aid measures

Description of first aid measures

First aid measures general : Remove contaminated clothing, flush area with water

First aid measures after skin contact : Remove contaminated clothing, flush area with water

First aid measures after eye contact : Rinse cautiously with water for several minutes, remove contacts if convenient, continue water flushing

First aid measures after ingestion : Rinse mouth, DO NOT INDUCE VOMITING

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after eye contact : Eye irritation

Symptoms/injuries after skin contact : Skin irritation

Symptoms/injuries after ingestion : Ingestion may cause nausea, vomiting and diarrhea

SECTION 5: Fire-fighting measures

Extinguishing media	: Carbon dioxide, Dry chemical, Water spray or fog
Special hazards arising from substance	: No reactivity hazard
Fire hazard	: No significant fire hazard
Explosion hazard	: No significant explosion hazard
Reactivity	: No significant reactivity
Advice for fire-fighters	: Exercise caution when fighting any fire
Protection during fire-fighting	: Fire-fighters should wear full protective gear.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures	: Use personal protective equipment (PPE). Handle with good laboratory hygiene and safety practice. Area should be equipped with shower and eye-wash station
For non-emergency personnel	: Use appropriate personal protective equipment (PPE)
Emergency procedures	: Evacuate unnecessary personnel
For emergency responders	: Use appropriate personal protective equipment (PPE)
Emergency procedures	: Flush area with water
Environmental precautions	: Clean up spills immediately. Prevent entry to sewers and public waters
Methods for material containment and clean up	
For containment	: Absorb and/or contain spill with inert material, place in suitable container
Methods for cleaning up	: Clean up spills immediately and dispose of waste safely

SECTION 7: Handling and storage

Precautions for safe handling	
Additional hazards when handling	: None
Precautions for safe handling	: Avoid contact with skin, eyes or hair. Use personal protective equipment (gloves) when handling
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water
Conditions for safe storage, including any incompatibilities	
Technical measures	: No special measures
Storage conditions	: 4°C storage is recommended. Keep container closed when not in use
Incompatible products	: None
Incompatible materials	: None

SECTION 8: Exposure controls / Personal protection

Control Parameters	
Sodium Azide CAS	: 26628-22-8
Exposure Controls	: Adequate ventilation
Personal protective equipment	: Protective eyewear, gloves
Hand protection	: chemically resistant gloves
Eye protection	: safety eyewear
Skin and body protection	: laboratory coat
Other information	: when using do not eat, drink or smoke

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	: liquid
Appearance	: clear liquid
Color	: colorless
Odour	: none
Odour threshold	: no data available
pH	: neutral
Relative evaporation	: no data available
Melting point	: 275°C
Solubility	: soluble in water
Initial boiling point range	: aqueous solution, 100°C
Flash point	: no data available
Evaporation rate	: no data available
Flammability	: no data available
Vapour pressure	: no data available
Relative vapour density at 20°C	: no data available
Density	: 1.85 g/cm ³
Solubility	: very soluble
Log Pow	: no data available
log Kow	: no data available
Viscosity	: no data available
Explosive properties	: no data available
Molecular formula	: N ₃ Na
Molecular weight	: 65.01 gr/mole

SECTION 10: Stability and reactivity

Reactivity	: no data available
Chemical Stability	: Stable
Possibility of hazardous reactions	: acids, metals, acid chlorides

SECTION 11: Toxicological information

LD50/LC50:

CAS# 26628-22-8:

Inhalation, mouse	: LC50 = 32400 µg/m ³ ;
Inhalation, rat	: LC50 = 37 mg/m ³ ;
Oral, mouse	: LD50 = 27 mg/kg;
Oral, rat	: LD50 = 27 mg/kg;
Skin, rabbit	: LD50 = 20 mg/kg;
Skin, rat	: LD50 = 50 mg/kg;

Skin corrosion/irritation	: irritant
Eye corrosion/irritation	: irritant
Respiratory or skin sensitization	: irritant
Germ cell mutagenicity	: not classified
Carcinogenicity	: not classified
Reproductive toxicity	: not classified
Specific organ toxicity (single exposure)	: not classified
Specific organ toxicity (repeated exposure)	: not classified

SECTION 12: Ecological information (non-mandatory)

Toxicity

Fish	: Rainbow trout: LC50 = 0.8-1.6 mg/L; 96 Hr.; 13°C
Fish	: Bluegill/Sunfish: LC50 = 0.7-0.8 mg/L; 96 Hr.; 18 °C

Persistence and degradability : no information available

Bioaccumulative potential : no information available

Mobility in soil : no information available

SECTION 13: Disposal considerations (non-mandatory)

Waste treatment methods : waste number P105

Waste disposal recommendations : non-hazardous waste

SECTION 14: Transport information (non-mandatory)

UN Number	: UN1687
UN Proper shipping name	: Sodium Azide
Transport hazard class	: Packing group III
Proper shipping name	: SPERM HY-LITER™
Hazard labels	: None
DOT Hazard Class	: 6.1
Environmental hazards	: no information available

SECTION 15: Regulatory information (non-mandatory)

Regulatory information on aqueous mixture

National information	: no information available
Regional information	: no information available

SECTION 16: Other information

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