

## SECTION 1: Product and company identification

### Product Identifier

Product Form	: Substance
Name	: Ready-Made DTT for SPERM HY-LITER™
Synonyms	: None
Intended Use of Product	: required reagent for SPERM HY-LITER™ staining
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 : aqueous solution of DTT, pH 8

Hazard pictogram : 

Signal word : Warning

Hazard Statements : H302 Acute toxicity - oral  
: H315 Harmful if contact with skin  
: H319 Serious eye irritation

Precautionary Statements : P261 Avoid breathing  
: P262: Do not get in eyes, on skin, or on clothing  
: P270: Do not eat, drink or smoke when using this product  
: P302 +P352: IF ON SKIN; wash with plenty of soap and water  
: 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%, 1 M solution
CAS No	: 3483-12-3

## 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 : -20°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

DTT CAS	: 3483-12-3
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	: aqueous solution
Appearance	: clear liquid
Color	: aqueous solution is clear
Odour	: sulfur, disagreeable
Odour threshold	: no data available
pH	: 8
Relative evaporation	: no data available
Melting point	: 41-44°C
Solubility	: soluble in water
Initial boiling point range	: aqueous solution, 100°C
Flash point	: 113°C
Evaporation rate	: no data available
Flammability	: no data available
Vapour pressure	: no data available
Relative vapour density at 20°C	: no data available
Density	: 1.0 g/cm <sup>3</sup>
Solubility	: soluble
Log Pow	: no data available
log Kow	: no data available
Viscosity	: no data available
Explosive properties	: no data available
Molecular formula	: C <sub>4</sub> H <sub>10</sub> O <sub>2</sub> S <sub>2</sub>
Molecular weight	: 154.25 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# : 3483-12-3

Intramuscular, mouse	: LD50 = 108 mg/kg;
Intraperitoneal, mouse	: LD50 = 154 mg/kg
Oral, rat	: LD50 = 400 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)

Ecotoxicity	: not available
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	: UN 3335
UN Proper shipping name	: ((R*R*)-1,4 dimercaptobutane-2,3-diol)
Transport hazard class	: Packing group III
Proper shipping name	: Ready-made DTT
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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