

Stain Enterprises
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SPERMAL STAIN: MATERIAL SAFETY DATA SHEET

The following information is offered gratuitously as accurate, but is furnished without guarantee and does not purport to be all inclusive and shall be used only as a guide. Dr E E Oettle and/or Stain Enterprises shall not be held liable for any damage resulting from handling or from contact with Spermac Stain.

SECTION 1- PRODUCT IDENTIFICATION

Description: Clear liquid (fixative), red liquid (Stain A), yellow liquid (Stain B), green liquid (Stain C).
Formulation: Spermac stain is prepared from formalin, phosphomolybdic acid, Rose Bengal, Neutral Red, Pyronin Y, Orange G, Janus Green, Fast Green FCF, ethyl alcohol.

SECTION 2- HAZARDOUS INGREDIENTS

Formalin: Harmful if swallowed, inhaled or absorbed through skin. Irritant to mucous membranes. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. Listed as a carcinogen by NTP and IARC.

Phosphomolybdic acid: Harmful if swallowed, inhaled or absorbed through skin. Irritant to mucous membranes. To the best of my knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Rose Bengal: May be harmful if swallowed, inhaled or absorbed through skin. May be irritant to mucous membranes. To the best of my knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Neutral Red: May be harmful if swallowed, inhaled or absorbed through skin. May be irritant to mucous membranes. To the best of my knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Pyronin Y: May be harmful if swallowed, inhaled or absorbed through skin. May be irritant to mucous membranes. To the best of my knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Orange G: May be harmful if swallowed, inhaled or absorbed through skin. May be irritant to mucous membranes. To the best of my knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Janus Green: May be harmful if swallowed, inhaled or absorbed through skin. May be irritant to mucous membranes. To the best of my knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Fast Green FCF: May be harmful if swallowed, inhaled or absorbed through skin. May be irritant to mucous membranes. To the best of my knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Ethyl Alcohol: Potential fire hazard.

SECTION 3- FIRE AND EXPLOSION HAZARD

Flammable at temperatures above 100 deg Celcius.

Extinguishing Media: Water spray, carbon dioxide, dry chemical powder or appropriate foam.

Special fire fighting procedure: Wear self contained breathing aparatus and protective clothing to prevent contact with skin and eyes. Toxic fumes may be emitted under fire conditions.

SECTION 4- HEALTH HAZARD DATA.

Toxicity: formalin listed as carcinogen by NTP and IARC

Other ingredients toxicity not established.

Effects of overexposure: Contact with skin or eyes may cause irritation

First aid procedures: Flush eyes with copious amounts of water for at least 15 minutes. Wash skin with soap and water. Stubborn stains may be removed with repeated alcohol swabs followed by soap and water. May stain clothing: wear protective clothing when using the product.

SECTION 5- REACTIVITY DATA

Incompatibilities: Strong oxidizing agents.

Hazardous decomposition products: Carbon monoxide, carbon dioxide.

SECTION 6- SPILL OR LEAK PROCEDURES

Rinse spill area with water.

SECTION 7- HANDLING AND STORAGE PRECAUTIONS

Eye/skin Protection: Wear suitable protective clothing, safety glasses with side shields and rubber gloves.

Storage: Room temperature

SECTION 8: SPECIAL PRECAUTIONS AND COMMENTS

Avoid contact and inhalation. Wash thoroughly after handling. Wash contaminated clothing before reuse. Spermac stain is specially formulated for staining smears of spermatozoa for morphological assessment only, and should be used for no other purpose.