



MSDS – ThinPrep[®] Orange G Solution

1. CHEMICAL AND COMPANY IDENTIFICATION:

Product Identification: ThinPrep[®] Orange G Solution

Trade Name/Chemical Family/Synonyms: ThinPrep[®] Orange G Solution

Product Description: An alcoholic dye solution.

Product Use: The staining of cytological slide specimens.

Manufacturer Cytoc Corporation
250 Campus Drive
Marlborough, Massachusetts 01752
USA
Telephone: 800-442-9892

EMERGENCY TELEPHONE NUMBERS: (24 hours a day and 7 days a week) **For Health/Transportation/Chemical Spills (Multilingual capabilities and free calls accepted)**
Continental United States: (800) 424-9300
Outside of continental United States: Call collect at +(703) 527-3887
In Australia: ChemWatch 1(800) 039 008
UN 1993
Flammable liquids, N.O.S.

2. COMPOSITION/INFORMATION ON INGREDIENTS:

Component	CAS Registry #	Wt. %
Ethanol	64-17-5	Prop.
Isopropanol	67-63-0	Prop.
Methanol	67-56-1	Prop.
Orange G dye	001936-15-8	< 1.0

3. HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW: **Material is both flammable and toxic. Inhalation will cause nonspecific discomfort (nausea, weakness), and/or temporary CNS depression with anesthetic effects. Overexposure may cause liver damage and/or death.**

Potential Health Effects.

Inhalation: May cause depression, nausea, weakness, and anesthetic effects.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: May cause intoxication, central nervous system depression, nausea, and dizziness. May damage liver and nervous system.

MSDS – ThinPrep[®] Orange G Solution

Target Organs: Liver, skin, eyes, respiratory and central nervous system.

Medical Conditions Aggravated by Exposure: Individuals with preexisting diseases of the retina (eyes) or liver may have increased susceptibility to toxicity at lower levels of successive exposure (repeated exposures).

Chronic: May cause chronic liver or nervous system disorders.

4. FIRST AID MEASURES:

- Inhalation:** Remove patient to fresh air. If symptoms of intoxication or vision problems are apparent, get immediate medical aid.
- Eye Contact:** Immediately flush with clean water for at least 15 minutes. Get medical aid.
- Skin Contact:** Remove contaminated clothing and shoes. Flush affected area with copious amounts of water. If irritation or other symptoms are present, get immediate medical assistance.
- Ingestion:** **Do Not Induce Vomiting.** Give one or two glasses of water and get immediate medical aid.
- Notes to Physician:** Treat for CNS depression. Ethanol is the predominant alcohol.

5. FIRE FIGHTING MEASURES:

- Flashpoint and Method:** 56°F (14°C) Closed cup (based on ethanol component)
- Autoignition Temperature:** 685°F (363°C) (based on ethanol component)
- Flame Limits:** UEL-19 LEL-3.3 (based on ethanol component)
- General Hazard:** Flammable material. Heated material may form toxic and/or explosive vapors.
- Fire Fighting Instructions:** Wear full turnout gear with self-contained breathing apparatus. If material is not involved in fire, attempt to cool with water or remove from area. FLAME INVISIBLE IN DAYLIGHT.
- Fire Fighting Equipment:** Wear full turnout gear with self-contained breathing apparatus.
- Extinguishing Media:** Foam – Yes Alcohol Foam – Yes CO2 – Yes Dry Chemical – Yes
Water – Yes Other – Water Fog
- Hazardous Combustion Products:** Carbon Monoxide and Carbon Dioxide
- NFPA Hazard Rating:** Health – 1 0=Insignificant
(National Fire Protection Association) Flammability – 3 1=Slight
Reactivity – 0 2=Moderate
Special Information – None 3=High
4=Extreme
U=Unknown * =No Information
- Special Information:** None

MSDS – ThinPrep[®] Orange G Solution

6. ACCIDENTAL RELEASE MEASURES:

- Land Spill:** Prevent runoff from entering waterways. Dike large spills with clay. Absorb small spills with clay or kitty litter. For spills in excess of 50 gallons, contact licensed HAZWOPER responders.
- Water Spill:** Follow local, state, provincial and Federal guidelines and regulations.
- General:** Follow local, state, provincial, and Federal guidelines for all spills.

7. HANDLING AND STORAGE:

- Handling:** KEEP OUT OF THE REACH OF CHILDREN. Wear recommended personal protective equipment and avoid contact with skin and eyes.
- Storage:** Store away from excessive heat and sources of ignition. Keep containers closed and protect from damage. Storage Temperatures: 59 – 86 °F (15 – 30°C)

8. EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT:

- Engineering Controls:** Supply exhaust and/or ventilation to keep vapor levels below threshold limit value.
- Respirator:** Where engineering controls are not adequate, use approved NIOSH respirators or supplied air respirators.
- Protective Clothing:** Chemically resistant gloves and chemical goggles.

Exposure Limits for Ingredients:

Ingredient	OSHA PEL	ACGIH TLV	
Ethanol TWA – 8 hr STEL – 15 minute	1000 ppm – TWA	1000 ppm – TWA	
	Canada – Alberta, British Columbia, New Brunswick, Manitoba, Ontario, Quebec, and Yukon		Canada – Saskatchewan
	1000 ppm – TWA 1250 ppm – STEL (Alberta only)	1880 mg/m ³ – TWA 2350 mg/m ³ – STEL	
Isopropanol TWA – 8 hr STEL – 15 minute	OSHA PEL 400 ppm – TWA	ACGIH TLV 400 ppm – TWA 500 ppm – STEL	
	Canada – Alberta, British Columbia, New Brunswick, Manitoba, Ontario, Quebec, and Yukon		Canada – Saskatchewan
	400 ppm – TWA 500 ppm – STEL	983 mg/m ³ – TWA 1230 mg/m ³ – STEL	

MSDS – ThinPrep® Orange G Solution

	OSHA PEL	ACGIH TLV	
Methanol TWA – 8 hr STEL – 15 minute	200 ppm – TWA	200 ppm – TWA 250 ppm – STEL Skin	
	Canada – Alberta, British Columbia, New Brunswick, Manitoba, Ontario, Quebec, and Yukon		Canada – Saskatchewan
	200 ppm – TWA 250 ppm – STEL Skin	262 mg/m ³ TWA 328 mg/m ³ STEL	

9. PHYSICAL AND CHEMICAL PROPERTIES:

<p>Vapor Pressure mm/Hg: 44.6 Specific Gravity (Water=1): 0.82 at 24°C Solubility in Water: Complete Freezing Point (°F/°C): Not established. Evaporation Rate (BuAc=1): Not established Viscosity: Not determined Boiling Point (°F/°C): 177 / 80.5</p>	<p>Appearance: Orange, clear Physical State: liquid Vapor Density (Air=1): 1.6 Percent Volatile by Volume: > 99 pH: Not applicable Odor: Alcohol type odor</p>
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10. STABILITY AND REACTIVITY:

General Stability: Stable

Incompatible Materials And Conditions To Avoid: Strong oxidizers. (May ignite product)

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION:

For ethanol: Product Inhalation LC50 Rat: 20000 ppm/10H
 not tested as a mixture: Oral LD50 Rat: 7060 mg/kg
 Oral LD50 Mouse: 3450 mg/kg

12. ECOLOGICAL INFORMATION:

For ethanol: Material has very low aquatic toxicity.
 LC50 (96 hr) fathead minnow: 14200 mg/L
 EC50 (30 min) Photobacterium phosphoreum: 34634 mg/L:

13. DISPOSAL CONSIDERATION:

RCRA Hazardous Waste if Discarded? Yes. **If so, RCRA ID number:** D001, Ignitable waste.

MSDS – ThinPrep® Orange G Solution

14. TRANSPORTATION INFORMATION:

**US DOT
DOT (Department of Transportation)**

Proper Shipping Name:	Flammable liquids, n.o.s., (ethanol, methanol)
Hazard Class:	3
Identification Number:	UN1993
Packing Group:	II

15. REGULATORY INFORMATION:

TSCA (Toxic Substances Control Act): All ingredients listed on TSCA inventory.

CERCLA: Reportable Quantity (RQ) for methanol – 5,000 lbs. (2,268 kg) No threshold planning quantity (TPQ) established for methanol.

SARA 311 Status: Immediate, fire hazard

SARA 313: Methanol is listed on the 313 Toxic Pollutant reporting list. Maximum concentration in this product is 4.5%.

State Issues: Not listed for California Proposition 65.

Foreign Chemical Inventories: All ingredients are listed on the chemical inventories of the following countries:
Canada (DSL)
Japan
European Union
Australia

WHMIS Status (Canada): A controlled product. Classification: B2; D1B; D2A, D2B
This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. OTHER INFORMATION:

Current Issue Date: June 2007

Previous Issue Date: May 2005

Other Information: None

Information Note: Where no corresponding data was contained in manufacturer's MSDS, additional research is required and available upon request. THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OR HER OWN PARTICULAR USE.