

MATERIAL SAFETY DATA SHEET

Product Name: Collodion Solution

Catalog Number: 10800, 10825, 12050, 12055, 53152, 53153

DOT Hazard Class: 3 (Flammable Liquid) (Product packaged in excepted quantity)

DOT Proper Shipping Name: Nitrocellulose solution, flammable

UN/NA ID No.: UN 2059

MSDS Prepared: 9/2011

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HAZARDOUS COMPONENTS

	<i>CAS Number</i>	<i>Percent</i>	<i>Exposure Limits</i>
Nitrocellulose	9004-70-0	0-5%	None Established
Amyl Acetate	628-63-7	95-100%	100 ppm (TWA)

PHYSICAL AND CHEMICAL DATA

Boiling Point: 146°C

Melting Point: <100°C

Specific Gravity: 0.8758 @ 20/20°C (for 100% amyl acetate)

Vapor Pressure: 4 mm Hg @ 20°C

Vapor Density: 4.5 (air = 1)

Evaporation Rate: 0.42 (butyl acetate = 1)

Solubility: 0.2% in water @ 20°C

Appearance and Odor: Clear, colorless liquid. Characteristic fruity odor.

FIRE AND EXPLOSION HAZARD DATA

Flash Point: 16°C

Explosive Limits: Lower = 1.1%; Upper = 7.5% (by volume)

Autoignition Temperature: 360°C

Extinguishing Media: Dry chemical, foam or carbon dioxide

Special Fire Fighting Procedures: Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards: Vapors may travel considerable distance to ignition source and flash back.

HEALTH HAZARD DATA

Primary Routes of Entry: Inhalation, ingestion, skin

Inhalation: Irritating to the respiratory tract. May cause narcosis, headache, fatigue, oppression of the chest, cough, nausea, dizziness, CNS depression, and edema of the glottis.

Ingestion: Symptoms may parallel inhalation.

Skin: May cause irritation, redness and pain. Liquid delipidates skin.

Eye: Vapors may cause burning sensations. Contact may cause irritation, redness and pain.

EMERGENCY AND FIRST AID

Inhalation: Remove patient to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion: Give water to drink. Induce vomiting if medical help is not immediately available. Obtain medical attention immediately.

Skin: remove contaminated clothing. Wash skin with plenty water for at least 15 minutes. If irritation develops, obtain medical attention.

Eye: Wash eyes with plenty water for at least 15 minutes. Obtain medical attention immediately.

REACTIVITY DATA

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions to Avoid: Flame, heat, sparks

Incompatibility: Strong alkalis, acids and oxidizing agents.

Hazardous Decomposition Products: Oxides of carbon

SPILL, DISPOSAL AND STORAGE INFORMATION

Spill: Shut off all sources of ignition. Evacuate area. Wear self-contained breathing apparatus, rubber gloves, protective clothing. Absorb on sand or vermiculite and place in closed containers for disposal.

Disposal: Ensure compliance with local, state and federal agencies.

Storage: Store in a cool, dry, well-ventilated location, away from any area where the fire hazard may be acute. Separate from oxidizing materials.

PROTECTIVE EQUIPMENT AND CONTROL MEASURES

Respiratory: Full face piece chemical cartridge respirator may be worn.

Gloves: Rubber or neoprene

Eye: chemical safety goggles and/or full face shield.

Ventilation: Local and/or general exhaust.

SECTION 313 SUPPLIER NOTIFICATION

This product is subject to the reporting requirements of Section 313 of SARA Title III.

The information presented is believed to be correct and is the most accurate information available to us at this time. However, Ladd Research makes no warranty, express or implied, and assumes no liability for this information and the product described herein.