

MATERIAL SAFETY DATA SHEET

Product Name: Collodion, 10% in Acetone

Synonyms: Nitrocellulose Solution

Catalog Number: 53154

DOT Hazard Class: Flammable Liquid, n.o.s. (packaged and shipped as Excepted Quantity)

DOT Proper Shipping Name: Acetone solution

UN/NA ID No.: UN1993

MSDS Prepared: 8/2009

Distributed By: Ladd Research

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HAZARDOUS COMPONENTS

	<i>CAS Number</i>	<i>Percent</i>	<i>Exposure Limits</i>
Acetone	67-64-1	90	1000ppm (OSHA PEL)
Nitrocellulose	9004-70-0	10	Not established

PHYSICAL AND CHEMICAL DATA

Appearance and Odor: Slightly viscous liquid with yellowish tint and strong ketone odor.

VOC: 90%

Specific Gravity: Not established

Vapor Pressure: 181mm Hg at 68°C (for acetone)

Melting Point: -94.3°C for acetone. Nitrocellulose ignites at 165°C.

Vapor Density: 2.0 (air=1) for acetone.

FIRE AND EXPLOSION HAZARD DATA

Flash Points: acetone: -18°C. Nitrocellulose: 13°C.

Autoignition Temperature: At 165°C the acetone will have evaporated and the nitrocellulose can ignite.

Explosive Limits: for acetone – lel=2.6%, uel=12.8%

Extinguishing Media: Carbon dioxide, alcohol dry foam, dry chemical.

Special Firefighting Procedures: Move container from fire if possible. Cool fire-exposed containers with water spray if they cannot be moved. Avoid breathing vapors.

Unusual Fire and Explosion Hazards: Dangerous when exposed to heat or flame. Vapors are heavier than air and may flash back from a considerable distance from a source of ignition. Vapor-air mixtures are explosive above flash point.

HEALTH HAZARD DATA

Inhalation: Nasal/throat irritation with laryngitis, bronchitis and coughing. Possible CNS symptoms such as headache, dizziness, drowsiness, weakness, confusion, nausea and general intoxication.

Skin: Irritation.

Eye: Mild irritation by vapors. Liquid will irritate, possibly severely.

Ingestion: Sore throat, headache, dizziness and drowsiness followed by restlessness, gastritis, nausea, vomiting, hematemesis, stupor, twitching, collapse, unconsciousness, convulsions and paralysis.

EMERGENCY AND FIRST AID

Inhalation: Remove patient to a location away from source of exposure. Give oxygen if breathing is difficult. Seek medical attention.

Skin: Wash affected area with large amounts of water until no evidence of chemical remains.

Eye: Wash immediately with large amounts of water until no evidence of chemical remains. Seek medical attention.

Ingestion: If victim is conscious, give 2 to 4 glasses of water and induce vomiting. Seek medical attention.

REACTIVITY DATA

Stability: Stable at room temperature in sealed container.

Hazardous Decomposition Products: Oxides of nitrogen, hydrogen cyanide, carbon monoxide.

Hazardous Polymerization: Will not occur.

Incompatibilities: Heat, flame, powerful oxidizers.

SPILL, DISPOSAL AND STORAGE INFORMATION

Spill: Shut off ignition sources. Provide ventilation. Wear respiratory protection while absorbing spill on sand or other inert absorbent.

Disposal: Consult local, state and federal regulations.

Storage: Store in a cool, dry, ventilated area, preferably in a flammable liquid storage cabinet.

PROTECTIVE EQUIPMENT AND CONTROL MEASURES

Respiratory: Wear respirator with organic vapor canister.

Gloves: Butyl rubber.

Eye Wear: Splash-proof chemical safety glasses or face shield.

Ventilation: Explosion-proof local exhaust.

SECTION 313 SUPPLIER NOTIFICATION

This product contains **acetone** which 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.