

# MATERIAL SAFETY DATA SHEET

Product Name: Replicating Solution  
Catalog Number: 12005  
DOT Hazard Class: Flammable Liquid (Excepted Quantity as packaged)  
DOT Proper Shipping Name: Acetone Solution  
UN ID No.: UN 1090  
MSDS Prepared: 8/09

*Distributed By:* Ladd Research Industries  
83 Holly Court  
Williston, VT 05495  
Tel: (802) 658-4961

## HAZARDOUS COMPONENTS

	<i>CAS Number</i>	<i>Percent</i>	<i>Exposure Limits</i>
Acetone	67-64-1	>90%	1000 ppm (OSHA PEL) 750 ppm (ACGIH TLV)
Cellulose Diacetate	9012-09-3	<10%	Not Determined

## CHEMICAL AND PHYSICAL DATA

*Boiling Point:* 56.21 C  
*Vapor Pressure:* 181 mm Hg at 68.1 C  
*Vapor Density:* 2.0 (air = 1)  
*Specific Gravity:* 0.792  
*Melting Point:* -94.31 C  
*Solubility:* Soluble in water  
*Reactivity with Water:* None  
*Evaporation Rate:* 0.8 (carbon tetrachloride = 1)  
*Appearance and Odor:* Transparent liquid with pinkish tint; Strong ketone odor.

## REACTIVITY DATA

*Flash Point:* -181 C  
*Autoignition Temperature:* 4651 C  
*Explosive Limits:* Lower = 2.6%, Higher = 12.8%  
*Extinguishing Media:* Carbon Dioxide, alcohol foam, dry chemical  
*Special Fire Fighting 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 HAZARDS

*Primary Routes of Entry:* Inhalation, skin absorption  
*Inhalation:* Nasal/throat irritation with laryngitis, bronchitis, and coughing. Possible central

nervous symptoms such as headache, dizziness, drowsiness, weakness, confusion, nausea and general intoxication.

*Skin:* Irritation

*Eye:* Mild irritation by vapors. Liquid will irritate, possible 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 the source of exposure. Give oxygen if breathing is difficult. Seek medical attention.

*Skin:* Remove contaminated clothing and shoes. 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.

**PROTECTIVE EQUIPMENT AND CONTROL MEASURES**

*Respiratory Protection:* Wear respirator with organic vapor canister.

*Gloves:* Butyl rubber.

*Eye Wear:* Splash-proof chemical safety glasses.

*Ventilation:* Explosion-proof local exhaust.

*Other:* Do not wear contact lenses while handling chemicals.

**SPILL, DISPOSAL AND STORAGE INFORMATION**

*In Case of Spill/Leak/Release:* Shut off ignition sources. Provide ventilation. Wear respiratory protection while absorbing spill on sand or other inert absorbent.

*Disposal:* Place absorbed material in container, seal and label. Consult local, state and federal regulations concerning disposal.

*Handling and Storage:* Store in a cool, dry, ventilated area.

**SECTION 313 SUPPLIER NOTIFICATION**

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

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*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.*