

## Material Safety Data Sheet

### Hazard Rating

4 = Extreme    3 = High    2 = Moderate    1 = Slight    0 = Insignificant

Fire: 4	Toxicity: 1	Reactivity: 0	Special: -
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### I. General Information

Supplier: Preservation Equipment Ltd Vinces Road, Diss, Norfolk IP22 4HQ, England		Trade Names & Synonyms: CELLUGEL	
DOT hazard Classification:	Flammable liquid	Chemical Family:	Mixture
Proper DOT Shipping Name: Flammable Liquid			
Date: 10/04/2000		Legend: N/E = Not Established N/A = Not Applicable	

### II. Ingredients

Hazardous Components	CAS Number	Percent	ACGTH TLV
Isopropyl Alcohol	67-63-0	80-97	400 ppm
Other ingredients are not considered hazardous per 29 CFR paragraph 1900.1200			

### III. Physical Data

Boiling Point (deg. F)	Approx. 180	Specific Gravity (H <sub>2</sub> O=1)	Approx. 0.8
Vapour Pressure (mm Hg)	Approx. 31	Percent Volatile	Approx. 96
Vapour Density (Air=1)	Approx. 2	Evaporation Rate (BuOAc=1)	7.7
Solubility in Water	Complete	Reactivity in Water	None
Appearance & Odour	Clear liquid, Fragranced	pH	Not applicable

### IV. Fire & Explosion Hazard Data

Flash Point (Test Method)	Flammable Limits 12% UEL 2.5% LEL
Setaflash Closed Tester 53	Auto Ignition Temperature NE
<i>Extinguishing Media:</i> Foam, Alcohol Foam, CO <sub>2</sub> , Dry Chemical, Water Spray, Water	
<i>Special Fire Fighting Procedures:</i> Vapours are heavier than air and may travel along the ground to a source of ignition.	
<i>Unusual Fire &amp; Explosion Hazards:</i> Remove all source of ignition; heaters, sparks, electric motors or cutting torches.	

**V. Health Hazard Data**

<i>Threshold Limit Value of Product</i> OSHA TEV:                      ACGTH TLV: 400 ppm	<i>Carcinogen:</i> None known
<p><b>Symptoms of Exposure and Routes of Entry</b>  <i>Eyes:</i> Severe irritation, redness, tearing and blurred vision.  <i>Skin:</i> Prolonged contact may result in irritation, de-fatting of skin and possibly dermatitis.  <i>Inhalation:</i> Nasal and respiratory irritation.  <i>Ingestion:</i> Gastrointestinal irritation, nausea, vomiting, diarrhoea.</p>	
<p><b>First Aid</b>  <i>Eyes:</i> Flush with large quantities of water, lifting upper and lower lids occasionally; get medical attention.  <i>Skin:</i> Wash area with soap and water; remove contaminated clothing and footwear.  <i>Inhalation:</i> Remove victim to fresh air. Call a physician if breathing has stopped.  <i>Ingestion:</i> Give at least two glasses of water. Induce vomiting immediately. Call a physician.</p>	

**VI. Reactivity Data**

<i>Stability:</i> Stable	<i>Conditions to Avoid:</i> Excessive heat
<i>Incompatibility:</i>	<i>Materials to Avoid:</i> Oxidizing materials
<i>Hazardous Polymerization:</i> Will not occur	<i>Conditions to Avoid:</i> -
<i>Hazardous Decomposition Products:</i> Oxides of carbon on incineration.	

**VII. Environmental Protection Procedures**

<i>Spill Response:</i> Absorb on inert absorbent and dispose of as a flammable solid. For a large spill, remove all sources of ignition and dike area. Pump into suitable Containers for ultimate disposal.
<i>Waste Disposal Method:</i> Incinerate in accordance with all applicable regulatory ordinances.

**VIII. Special Protection Information**

<i>Eye Protection:</i> Not normally needed.	<i>Skin Protection:</i> Not normally needed.
<i>Respiratory Protection (Specific Type):</i> Not normally needed	<i>Ventilation Recommended:</i> General
<i>Other Protection:</i> Not normally needed	

**IX. Special Precautions**

<i>Hygienic Practices in Handling &amp; Storage:</i> Keep closures on containers when not in use. Store in a cool place.
<i>Other precautions:</i> Keep away from all possible sources of ignition.
<i>Disposal of Empty Containers:</i>