

# MATERIAL SAFETY DATA SHEET

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 Revision Date: December 16, 2011  
 Approved by: Darius Nicpon

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Section 1 Chemical Product and Company Name		
Product	<b>LIQUID STARCH</b>	ITEM No: CASE-B009
Synonyms	Liquid starch	
CHEMTREC	24 Hour Emergency Phone Number (800) 424-9300	

Section 2 Composition/Ingredients Information			
Chemical Name	CAS#	%	TLV Units
Starch solution	Mixture	>99%	Not established
Benzyl benzoate	120-51-4	<1%	Not established

Section 3 Hazards Identification											
CAUTION! MAY BE HARMFUL WHEN SWALLOWED.		0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe	<table border="1"> <tr><td>Health</td><td>1</td></tr> <tr><td>Flammability</td><td>0</td></tr> <tr><td>Physical Hazard</td><td>0</td></tr> <tr><td>Personal Protection</td><td>C</td></tr> </table>	Health	1	Flammability	0	Physical Hazard	0	Personal Protection	C
Health	1										
Flammability	0										
Physical Hazard	0										
Personal Protection	C										
HMIS											

**Section 4 First Aid Measures**

**INGESTION:** Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Do NOT induce vomiting unless directed to do so by medical personnel. Get immediate medical attention.  
 Get medical attention immediately.  
**INHALATION:** Remove to fresh air. Get medical attention if necessary.  
**EYE CONTACT:** Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek immediate medical attention.

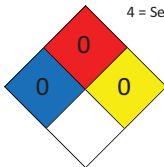
**Section 5 Fire Fighting Measures**

Non flammable liquid.

**Extinguishing Media:** Use TriClass, dry chemical extinguisher or water spray for surrounding fires. Firefighters should use self-contained breathing apparatus and protective clothing. At high temperatures or fire conditions may produce toxic or irritating fumes.

**Flash point:** N/A  
**Autoignition temperature:** N/A  
**Explosion limits:** Lower: N/A Upper: N/A

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe



**Section 6 Accidental Release Measures**

Restrict unprotected personnel from the area. Contain the spill with an inert absorbent material and deposit in a sealed bag or container. For small spill use paper towel. Place the wet medium in trash. Ventilate and wash spill area with soap and water.

**Section 7 Handling and Storage**

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Use only under adult supervision.  
**Handling:** Use with adequate ventilation. Avoid breathing vapor. Wash hands thoroughly after handling.  
**Storage:** Keep container in cool, well-ventilated area. Avoid freezing.

**Section 8 Exposure Controls/ Personal Protection**

**Engineering controls:** Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits.  
**Respiratory protection:** Non should be needed if normal laboratory handling at room temperature. Use self-contained breathing apparatus in high vapor concentrations.

**Section 9 Physical and Chemical Properties**

**Physical state:** Liquid  
**Appearance:** Milky.  
**Odor:** Not available  
**pH:** Not available  
**Vapor Pressure ( mm Hg):** 2.3kPa at 20 °C (water)  
**Vapor Density:** 0.63 (Air=1) (water)  
**Evaporation Rate:** not available  
**Viscosity:** not available

**Boiling point:** Not available  
**Melting point:** Not available  
**Freezing point:** 0 °C/32 °F (water)  
**Decomposition temp:** Not available  
**Solubility:** Miscible.  
**Specific gravity (H<sub>2</sub>O = 1):** Not available  
**Percent volatile (%):** Not available  
**Molecular formula:** Mixture  
**Molecular weight:** Mixture

**Section 10 Stability and Reactivity**

**Chemical Stability:** Stable  
**Conditions to Avoid:** Not available.  
**Incompatibilities:** Not available  
**Hazardous decomposition:** Not available.  
**Hazardous polymerization:** Not available.

**Section 11 Toxicological Information**

**Effects of overexposure:** Eye: May cause slight redness, tearing or blurred vision. Skin: None. Inhalation: None. Ingestion: May be harmful when swallowed.

ORAL LD<sub>50</sub>: 1400mg/kg [Mouse] (Benzyl benzoate).  
 SKIN LD<sub>50</sub>: 4000mg/kg [Rat] (Benzyl benzoate).

**Section 12 Ecological Information**

Data not available.

**Section 13 Disposal Considerations**

Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.

**Section 14 Transport Information**

**UN number:** Not available  
**Shipping name:** Not controlled.  
**Hazard Class:** N/A  
**Packing group:** N/A  
**Exceptions:** N/A

**Section 15 Regulatory Information**

Not available

**Section 16 Other Information**

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