



MATERIAL SAFETY DATA SHEET

MSDS No: 0051.004.00
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Approved by: Darius Nicpon

17 Colt Court
Ronkonkoma, NY 11779
800-381-8003

Section 1 Chemical Product and Company Name		
Product	CORN SYRUP, 50%	ITEM No: HC-2B08E
Synonyms	Corn sugar, glucose	
CHEMTREC	24 Hour Emergency Phone Number (800) 424-9300	

Section 2 Composition/Ingredients Information			
Chemical Name	CAS#	%	TLV Units
Water	7732-18-5	52%	Not established
Glucose	50-99-7	47%	Not established
Benzyl benzoate	120-51-4	0.25%	Not established
Formaldehyde	50-00-0	0.5%	0.37mg/m ³ STEL

Section 3 Hazards Identification

WARNING! HARMFUL IF SWALLOWED. MAY CAUSE EYE AND SKIN IRRITATION. MAY AFFECTS BEHAVIOR, BLOOD, KIDNEYS, LIVER, METABOLISM, RESPIRATORY, NERVOUS, IMMUNOLOGICAL AND GASTROINTESTINAL SYSTEM CAN CAUSE CANCER. MAY CAUSE BIRTH DEFECTS.

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

Health

Flammability	2
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. Induce vomiting as directed by medical personnel. 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.

SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water. Get medical attention if irritation develops.

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.

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: Yellow to brown.
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 (H₂O = 1): 1.20 at 20°C
Percent volatile (%): Not available
Molecular formula: Mixture
Molecular weight: Mixture

Section 10 Stability and Reactivity

Chemical Stability: Stable
Conditions to Avoid: Excessive temperatures, and incompatible materials.

Incompatibilities: Not available
Hazardous decomposition: Not available.
Hazardous polymerization: Not available.

Section 11 Toxicological Information

Effects of overexposure: Formaldehyde is toxic. Although concentration in this solution is low, ingestion of large doses could result in death. Due to presence of formaldehyde, this liquid may irritate skin and eyes. It may irritate the respiratory track (nose, throat, airways). Formaldehyde is classified as A2 (Suspect to human as carcinogen). It is mutagenic for mammalian somatic cells. Ingestion of Formaldehyde causes gastrointestinal irritation with nausea, vomiting, diarrhea, pain in mouth and stomach.

ORAL LD₅₀: 100mg/kg [Rat]. 42mg/kg [Mouse]. 260mg/kg [Guinea pig].
SKIN LD₅₀: 270mg/kg [Rabbit].

Benzyl Benzoate
ORAL LD₅₀: 1400mg/kg [Mouse].
SKIN LD₅₀: 4000mg/kg [Rabbit].

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

EINECS-listed (231-791-2) [Formaldehyde]. DSCl (EEC) R23/24/25— Toxic by inhalation, in contact with skin, and if swallowed. R43-May cause skin sensitization. S51-Use only in well ventilated areas [Formaldehyde].

Section 16 Other Information

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