

MATERIAL SAFETY DATA SHEET
(MSDS Sheet is in compliance with 29CFR 1910. 1200)

Manufacturer:
IMEB INC.
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San Marcos, CA 92069
Chemtrec: 800-424-9300

Date Prepared: 09/02/97
CAT #: FM-037

Product Trade name: Formaldehyde 37%
Product Description:

Section I Hazardous Composition Information

Hazardous Components	CAS No.	OSHA PEL	ACGIH / TLV
Formaldehyde	50-00-0	0.75 ppm	2 ppm

Section II Physical and Chemical Characteristics

Specific Gravity: .89 (water = 1.0)@ 77 F
Solubility in Water: Soluble
SP. Gravity of Vapor: n/a
Evaporation Rate (n-Bu Acetate = 1): n/a
Vapor Pressure: 1950mm HG @ 20 C
Viscosity: n/a
Boiling Point: 64.5C [148.1 F]

Color: Colorless **Odor:** Pungent aromatic aldehyde odor **State:** Liquid

Section III Stability and Reactivity

Stability: Stable
Conditions to Avoid: Do not allow solution to dry.
Hazardous Polymerization: n/a
Incompatible Materials: Strong acids, Alkalines, Chlorine by products.
Hazardous Decomposition Products: Decomposition into Formic Acid.

Section IV Fire and Explosion Data

Flashpoint: 60 C [140 F] Closed cup.
Flammable Limits: **LEL:** 6% **UEL:** 36.5%
Autoignition Temperature: 430 C [806 F]
Extinguishing Media: Foam, Dry Chemical, Water Spray, CO2;
Special Fire Fighting Procedure: Fright fire from a safe distance. Product is flammable.
Decomposition Products Under Fire Conditions: Produces acrid smoke and fumes.

Section V Health Hazard Data

Acute Health Effects:

Eye Contact: May cause blindness.

Skin Contact: May cause irritation.

Inhalation: May cause coughing, irritation to sinus, trachea and lungs.

Ingestion: May be fatal if ingested.

Chronic Health Effects:

Eye Contact: Prolonged contact may cause blindness.

Skin Contact: Prolonged contact may cause chemical burns to skin.

Inhalation: Formaldehyde is a known Carcinogen and may cause cancer by repeated inhalation.

Ingestion: May be fatal if ingested.

Carcinogen: IARC: Yes

NTP: Yes

OSHA: Yes

Medical Conditions Aggravated by Exposure: This product contains formaldehyde which has been classified by OSHA/NIOSH and the State of California as a Carcinogen. Repeated exposure may cause Cancer, or general deterioration of health by accumulation.

Section VI Emergency First Aid Procedures

Eye Contact: Flush eye with copious amounts of water or saline solution. Seek Medical Attention.

Skin Contact: Wash contact area with soap and water. Seek medical attention if symptoms persist.

Inhalation: Remove victim to a well ventilated area.

Ingestion: Seek immediate medical attention.

Section VII Spill, Disposal and Storage Methods

Accidental Spill: Immediately inform employees. Wear gloves, goggles, and approved respirator. Dike area with sand or absorbent material. Absorb spill with absorbent and neutralize spill with Formalin and Acid Neutralizers. Discard waste. Clean spill area with soap and water.

Waste Disposal: All waste must be disposed in accordance to local, state, and federal regulations.

Storage: Store in original container or LDPP, HDPE or any plastic container except PolyCarbonate. Do not store in metal containers. Product is light sensitive. Avoid prolonged contact with white light. Do not store in temperatures above 100 F for prolonged periods of time. Product is combustible. Do not store near fire, flame or heating devices.

Section VIII Personal Protection and Handling

Ventilation: Use mechanical fume hood.

Respiratory Protection: Use NIOSH approved organic respirator.

Eyewear: Wear goggles or splash resistant eyewear.

Protective Gloves: Wear solvent resistant gloves or impermeable protective gloves.

Other Protective Clothing or Equipment: Wear rubber or impermeable lab apron..

Hygienic Practices: Wash hands before meals or breaks.

Federal and State Regulations: 37% Pennsylvania Right-to-Know, Hazardous Substance List, Hazardous Substances and Special Hazardous Substances on the list must be identified when present in products. Component present in this product at a level which could require reporting under the statute is: **Formaldehyde**

37% Massachusetts Right-to-Know, Hazardous Substance List, Hazardous Substances and Special Hazardous Substances on the list must be identified when present in products. Component present in this product at a level which could require reporting under the statute is: **Formaldehyde**

Warning: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Chemical ingredient(s) requiring this warning: **Formaldehyde**

THIS INFORMATION RELATES TO THE SPECIFIC TRADE NAME PRODUCT DESIGNATED ON THIS MSDS SHEET. INFORMATION IS TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS OF THE DATE COMPILED. NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. WE DO NOT ACCEPT LIABILITY FOR ANY LOSS OR DAMAGE THAT MAY OCCUR FROM THE USE OF THIS INFORMATION.