

centaur

ANIMAL HEALTH

Safety
Data
Sheet

Formaldehyde, 37% Solution

(Formalin, Formol, Methanol, Formaldehyde containing solutions, Formalith)

Olathe, KS Tel: 913-390-6184

Emergency phone: 800 424 9300 (Chemtrec)

1. Product Identity

NFPA Rating: Health 3, Flammability 2, Reactivity 2, Special 0
HMIS Rating: Health 3, Flammability 1, Physical 0, Reactivity, 0

Product Name: Formaldehyde, 37% Solution
Product Number: 17

2. Hazardous Ingredients

Formaldehyde: CAS: 50-00-0
Methanol: CAS: 67-56-1



Signal Word: Danger

Hazard Statement: Flammable

Precautionary Statements: Take time observe label directions. Keep away from heat & open flame. Keep container closed when not in use. Harmful if swallowed. Store at 10°-30°C (50°-86°F). Avoid contact with eyes & mucous membranes. May cause severe skin burns & eye damage. Toxic if inhaled. Keep out of reach of children. May cause an allergic skin reaction. May cause cancer.

3. Composition

Formaldehyde: CAS: 50-00-0
Methanol: CAS: 67-56-1
Water: CAS: 7732-18-5
Weight%: Formaldehyde: 37-38%
Methanol: 10-15%
Water: 48-53%

4. First Aid Measures

Eye Contact: Immediately flush eyes with plenty of water for at least 15 mins, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one way valve or other proper respiratory medical device.

Ingestion: Poison material. If swallowed, get medical attention immediately. Only induce vomiting is advised by medical personnel. Never give anything by mouth to an unconscious person.

Skin Contact: Not expected to require first aid measures. Wash area with soap and water. Get medical advice if irritation develops.

5. Fire Fighting Measures

Flash Point: 50°C (122°F)
Extinguishing Media: Use water spray, dry chemical, carbon dioxide or chemical foam.
Unusual Fire/Explosion Hazards: Flammable liquid and vapor. Use spark proof tools and explosion proof equipment.

6. Accidental Release Measures

Steps to take in case of spill, leak or release:
Use proper personal protective equipment.

Absorb spill with inert material (vermiculite, sand or earth), then place in a suitable container. Wear a self-contained breathing apparatus and personal protection. Remove all source of ignition. Use a spark-proof tool. Do not let chemical enter the environment.

7. Handling & Storage	Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep away from sources of ignition. Store around 20°C.
8. Control Measures	<p>OSHA TWA: Formaldehyde: 0.75ppm Methanol: 200ppm</p> <p>ACGIH TLV: Formaldehyde: 0.3ppm Methanol: 200ppm</p> <p><u>Other precautions:</u></p> <p>Use spark proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Keep away from heat, sparks, and flame. Do not ingest.</p> <p><u>Ventilation:</u></p> <p>Use explosion proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.</p> <p><u>Protective clothing or equipment:</u></p> <p>Appropriate goggles, appropriate protective clothing to prevent skin exposure, appropriate gloves, a respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.</p> <p><u>Work or Hygienic Practices:</u></p> <p>Use good personal hygiene when handling this product. Wash hands after use, before smoking or eating, and before using the toilet.</p>
9. Physical Properties	<p>Appearance: Colorless Liquid</p> <p>Odor: Pungent odor</p> <p>Specific Gravity: 1.0749-1.2020</p> <p>pH: 2.8-4.0</p> <p>Boiling point: 91-101°C</p> <p>Vapor Pressure: 67-88 mm Hg @ 20°C</p>

10. Stability & Reactivity	Evaporation Rate:	Not applicable
	Solubility in Water:	Cold water & hot water
	Stability:	Stable under normal temperatures and pressure.
	Incompatibility:	Strong oxidizing agents, reducing agents, strong acids, strong bases, acid chlorides, alkali metals, amines, anhydrides, phenols, isocyanates, acid anhydrides, aniline.
	Corrosivity:	N/A
11. Toxicological Information	Hazardous polymerization:	Will not occur.
	Special Remarks on Reactivity:	Will decompose to Carbon Monoxide & carbon dioxide
	<u>Danger!</u> <u>Danger very serious irreversible effects. Toxic if swallowed, inhaled or absorbed through the skin. Poison! Causes burns by exposure routes. Contains formaldehyde which can cause cancer. Flammable liquid & vapor. May be fatal or cause blindness if swallowed. Vapor harmful. Cancer hazard. Cannot be made non-poisonous. May cause sensitization by skin contact.</u>	
	<u>Potential Health Effects</u>	
	Eye Contact:	Causes eye burns. Lachrymator (substance which increases the flow of tears)
	Ingestion:	May be fatal or cause blindness if swallowed. Poison by ingestion. May cause severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhea. Causes severe digestive tract burns. Toxic if swallowed.
	Inhalation:	May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. Cause chemical burns to the respiratory tract. May cause pulmonary edema and severe respiratory disturbances. Toxic if inhaled. Vapor harmful. May cause nausea, dizziness & headache.
	Skin Contact:	Causes skin burns. Toxic in contact with the skin. May cause sensitization by skin contact.

12. Ecological Information

Chronic

May cause cancer in humans. Chronic exposure may cause lung damage. Adverse reproductive effects have reported in animals. Laboratory experiments have resulted in mutagenic effects. Repeated or prolonged exposure may cause allergic reactions in sensitive individuals. Prolonged or repeated contact may cause possible eczema. Animal studies have reported development of tumors.

No additional information is available at this time

13. Disposal Information

Waste disposal method:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. Transport Information

DOT Class:	ORM-D
Hazard Class:	3
UN Number:	1198
Package code:	III
Shipping Name:	Formaldehyde, Solutions, Flammable



15. Regulatory Information

Waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

16. Additional Information

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07/28/2014