





Parasite Suspensions in Formalin

SECTION 1: IDENTIFICATION

Parasite Suspensions

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SECTION 2: HAZARDS INSTRUCTIONS

Personnel coming in contact with the suspensions should be properly trained in the handling of biohazard material. The microorganisms presented in the suspensions are nonviable and do not pose a health threat. The microorganisms are nonviable due to formalin fixation.

Formalin causes the following hazards:

Combustible

GHS Classification of Formalin:

Flammable Liquids:	Category 4
Acute Toxicity:	Category 3
Skin Irritation:	Category 3
Serious Eye Damage:	Category 3
Skin Sensitization:	Category 1
Carcinogenicity:	Category 2
Specific Target Organ Toxicity – Single Exposure:	Category 2

Signal word: **Danger**

Pictogram:



Harmful if swallowed
May cause an allergic skin reaction.
May cause damage to eyes and other organs
May cause breathing difficulty if inhaled
Suspected of causing cancer.
Destructive to mucous membranes and the respiratory tract
Toxic if inhaled. Avoid breathing dust/fumes/gas/mist/vapor/spray
Toxic in contact with skin
Toxic if swallowed
May cause damage to organs

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
Take off immediately contaminated clothing and wash before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a comfortable position for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Fecal matter

Formalin, neutral buffered, 10%

- Formaldehyde (CAS 50-00-0) – approximately 4%
- Methanol (CAS 67-56-1) – 1-5%

Parasite(s)

SECTION 4: FIRST AID MEASURES

In the case of exposure, consult a physician.

Inhalation

If case of inhalation, move to fresh air, and keep in a comfortable position for breathing. Call a POISON CENTER, or consult a physician immediately.

Skin contact

In case of skin contact, wash the affected area with copious amounts of soap and water. Consult a physician. Take off contaminated clothing, and wash before reuse. Contaminated clothing should not be allowed out of the workplace.

Eye contact

In case of eye contact, rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a physician immediately.

Ingestion

In case of ingestion, DO NOT induce vomiting. Rinse the mouth with water. Call a POISON CENTER, or consult a physician immediately.

SECTION 5: FIRE-FIGHTING MEASURES

Keep away from all possible sources of ignition.

In case of fire, use water spray, alcohol resistant foam, dry chemical or a carbon dioxide extinguisher.

Self-contained breathing apparatuses may be necessary for fire-fighting, as carbon oxides are formed under fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Use personal protective equipment, which may include a self-contained breathing apparatus to avoid breathing vapors, mist or gas. Ventilate the affected area, and evacuate all personnel. Remove any potential source of ignition.

Avoid splashing of material.

SECTION 7: HANDLING AND STORAGE

Store in a well ventilated area. Keep the container tightly closed. Store locked up.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

Use in a well ventilated area

Gown, apron, or lab coat

Chemical resistant gloves

Protective glasses (for small volumes) or splash goggles

Respiratory equipment may be needed when working with large volumes

Do not eat, drink, or smoke when using this product

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Flash Point: 85°C/185°F

Vapor Pressure: 53 hPa (40 mmHg) at 39°C (102°F)

Vapor Density: N/A

Solubility in Water: completely miscible

Density: 1.080 g/cm³

Percent Volatile: N/A

Evaporation Rate: N/A

SECTION 10: STABILITY AND REACTIVITY

This product is stable under normal temperatures and pressures.

Avoid heat, flames, and sparks.

SECTION 11: TOXICOLOGICAL INFORMATION

This product may irritate the nose, respiratory tract, and eyes.

This product may cause pain, inflammation, and ulceration with vomiting, bloody urine, and gastrointestinal bleeding if swallowed.

Dermal exposure may cause hardening or whitening of the skin.

Formaldehyde: this is an OSHA related carcinogen that has been investigated as a reproductive effector, tumorigen and mutagen.

Methanol: has been investigated as a reproductive effector, tumorigen and mutagen.

SECTION 12: ECOLOGICAL INFORMATION

Formaldehyde is readily biodegradable. The products of this degradation are less toxic than the original product.

Methanol may leach into the groundwater if released into the soil. This product should readily biodegrade both in the water and soil.

Formalin solutions are toxic to aquatic life. This product should not be released into water or soil.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local/regional/national/international regulations

SECTION 14: TRANSPORT INFORMATION

This product is not a DOT regulated material.

SECTION 15: REGULATORY INFORMATION

California Prop 65: This product contains chemicals known to cause cancer, birth defects, or other reproductive harm in the state of California.

OSHA considers this product hazardous.

The following chemicals are listed on the right to know lists in California, New Jersey, Pennsylvania, Minnesota, and Massachusetts:

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

The following chemical is listed as a hazardous substance under the Clean Water Act:

- CAS 50-00-0 – Formaldehyde

The following chemicals are listed as hazardous pollutants under the Clean Air Act:

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

The following chemicals are listed subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373:

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

The following chemicals are listed with SARA codes:

- CAS 50-00-0 – Formaldehyde – acute, chronic
- CAS 67-56-1 – Methanol – acute, flammable

Canada:

The following chemicals are listed on the Canadian Ingredient Disclosure List, and the DSL/NDSL List:

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

This product has a WHMIS classification of D2B

SECTION 16: OTHER INFORMATION _____

NFPA hazard rating:

Health: 2

Flammability: 0

Reactivity: 0



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U.S. Department of Labor
Occupation Safety and Health Administration